The 59th Annual Meeting
of the
International Society
of Electrochemistry

Electrochemistry Down to the
Molecular Level:
Interfacial Science for Life and Technology

September 7 to 12, 2008
Seville, Spain

PROGRAM
Welcome Address

The organizing committee of the 59th Annual Meeting of the International Society of Electrochemistry warmly invites you to visit Seville on September 7-12, 2008 and contribute to the scientific presentations and discussions related to the main subject of the meeting: Electrochemistry Down to the Molecular Level: Interfacial Science for Life and Technology.

Seville is located in the South of Spain on the plain of the Guadalquivir River, which flows through the city. Seville’s origin is linked with the Tartessian civilisation and according to the oldest myths was founded by Hercules. The Romans called the town Hispalis and the Moors Isbiliya. During the XVII Century the harbour was the gate between Europe and America. This period was the golden age of the city. At present, Seville is the capital of the Andalusian Region, the seat of its parliament and government.

The main theme of the Meeting aims to emphasise the importance of electrochemical interactions at a molecular level and the consequences that the detailed knowledge of electrochemical systems have towards the improvement of human life through technological applications. The increasing comprehension of the fundamental aspects involved in electrochemical reactions and in interfacial structure at the atomic level opens a fan-shaped window on the different fields of research in which Electrochemistry is involved: from living cells to fuel cell reactions, from sensors to electrosynthesis, from nanostructures to bulk materials. An awareness of the scientific basis underlying these processes will stimulate further developments and lead to new and more efficient applications.

The Annual Meeting will explicitly involve all the different Scientific Divisions into which the International Society of Electrochemistry is organised, pointing out and developing the links between fundamental and applied aspects in each particular domain of research. The objective of meetings is to enable communication between different approaches to a particular subject and to establish links between researchers with common interests to facilitate the growth of new ideas in research. This is particularly important in the complex scenario of interfaces, that fortunately benefit from a common language, that of Electrochemistry.

We look forward to seeing you in Seville in 2008.

Manuela Rueda, Antonio Aldaz, Christopher Brett
Co-chairs, Organizing Committee, ISE Annual Meeting 2008
Organizing Committee

Co-Chairs

Manuela Rueda, Spain (chair)
Antonio Aldaz, Spain (co-chair)
Christopher Brett, Portugal (co-chair)

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Francisco Prieto (University of Seville, Spain) (Secretary of the LOC)

Symposia Organizers

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Ana Maria Oliveira-Brett (coordinator), Universidade de Coimbra, Portugal
Renata Bilewicz, Warsaw University, Poland
Ernesto Calvo, Universidad de Buenos Aires, Argentina
Lo Gorton, Lund University, Sweden
Wolfgang Schuhmann, Ruhr-Universität Bochum, Germany

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Marc Koper (coordinator), University of Leiden, Netherlands
Rafael Andreu, University of Seville, Spain
Gary Attard, University of Cardiff, United Kingdom
Enrique Herrero, University of Alicante, Spain
Antonio Rodes, University of Alicante, Spain
Symposium 3: Symposium 3: Electroanalytical Chemistry at the Nanoscale
György Inzelt (coordinator), Eötvös Loránd University, Budapest, Hungary
Agustín Costa, University of Oviedo, Spain
Salvatore Daniele, University of Venice, Italy
Hasuck Kim, Seoul National University, Korea
José M. Pingarrón, Complutense University of Madrid, Spain
Patrick Unwin, University of Warwick, Coventry, UK

Symposium 4: Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Ole Hammerich (coordinator), University of Copenhagen, Denmark
Luís Camacho, University of Cordoba, Spain
Jiří Ludvík, J. Heyrovský Institute of Physical Chemistry, Czech Republic
Marcin Opallo, Polish Academy of Sciences, Poland
Lubomír Pospíšil, J. Heyrovský Institute of Physical Chemistry, Czech Republic
J. Faye Rubinson, Georgetown University, Washington DC, USA,

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Patrik Schmuki (coordinator), University of Erlangen, Germany
Daniel Lincot, Ecole Nationale Supérieure de Chimie de Paris, France
Carlos Muller, University of Barcelona, Spain
Toribio F. Otero, University of Cartagena, Spain

Symposium 6: Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Mark Orazem (coordinator), University of Florida, USA
Claude Gabrielli, CNRS, Paris, France

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Achille De Battisti (coordinator), University of Ferrara, Italy
Christos Comninellis, EPFL, Switzerland
Claude Deslouis, University P. and M. Curie, Paris, France
Yunny Meas, CIDETEQ, Mexico
Constantinos G. Vayenas, University of Patras, Greece

Symposium 8: Symposium 8: Electrochemical Energy Conversion and Storage
Günther Scherer, Paul Scherrer Institute, Villigen, Switzerland
Rüdiger Kötz, Paul Scherrer Institute, Villigen, Switzerland
Nicolas Alonso-Vante, University of Poitiers, France
Ernesto Rafael González, Institute of Chemistry of Sao Carlos, Brazil
Claude Lamy, University of Poitiers, France

Symposium 9: Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Daniel Scherson, Case Western Reserve University, Cleveland, USA

Symposium 10: Symposium 10: General Session
Claudio Gutiérrez (coordinator), C.S.I.C. Spain
Annick Hubin, University of Brussels, Belgium
Symposium Session Chairs

MONDAY 8 SEPTEMBER 2008 - AM

**Symposium 1:** From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells  
Salón de Grados (Floor PA)  
Chair: Ana Maria Oliveira Brett, Nabil El Murr

**Symposium 2:** Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods  
Location: Room 210 (Floor P1)  
Chair: Marc Koper, Jacek Lipkowski

**Symposium 3:** Electroanalytical Chemistry at the Nanoscale  
Location: Room 211 (Floor P1)  
Chair: György Inzelt, Hasuck Kim, Richard Compton

**Symposium 4:** Molecular Electrochemistry: From Single Molecules to Conducting Polymers  
Location: Room 209 (Floor P1)  
Chair: Ole Hammerich, Daniel Little

**Symposium 5:** Electrochemistry of New Materials and Novel Microstructures for Sustainable Development  
Location: Room 007 (Floor PB)  
Chair: Carlos M. Muller, Toribio Fernández Otero

**Symposium 6:** Corrosion: Fundamental Understanding to Practical Applications  
Location: Room 212 (Floor P1)  
Chair: Hisasi Takenouti, Suzanne Joiret

**Symposium 7:** Industrial Electrolysis, from the Laboratory to Industry: State-of-the-Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes  
Location: Room 214 (Floor P1)  
Chair: Constantinos Vayenas, Pietro Cavallotti

**Symposium 8:** Electrochemical Energy Conversion and Storage  
Main Theatre (Salón de Actos, Floor PB)  
Chair: Guenther Scherer, Edson Ticianelli

**Symposium 9:** Micropowered Devices: Energy Harvest, Storage and Conversion  
Location: Room 213 (Floor P1)  
Chair: Daniel A. Scherson

**Symposium 10:** General Session  
Location: Room 215 (Floor P1)  
Chair: C. Gutierrez, A. Lasia

MONDAY 8 SEPTEMBER 2008 - PM

**Symposium 1:** From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells  
Salón de Grados (Floor PA)  
Chair: Mamantos Prodromidis, Fred Lisdat

**Symposium 2:** Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods  
Location: Room 210 (Floor P1)  
Chair: Wolfgang Schmicker

**Symposium 3:** Electroanalytical Chemistry at the Nanoscale  
Location: Room 211 (Floor P1)  
Chair: Salvatore Daniele, Munetaka Oyama

**Symposium 4:** Molecular Electrochemistry: From Single Molecules to Conducting Polymers  
Location: Room 209 (Floor P1)  
Chair: James Y. Becker, Michael Schmittel
Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Daniel Lincot, Patrick Schmüki

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 107 (Floor E1)
Chair: Derck Schlettwein, Josef Wendrinsky

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Suzanne Joiret, Hisasi Takenouti

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Yunni Meas, Claude Deslouis

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Minoru Inaba

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion
Location: Room 213 (Floor P1)
Chair: Bruce Dunn

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: V. Climent, K. Yliniemi

TUESDAY 9 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: J. Justin Gooding, Andrew Nelson

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Location: Room 210 (Floor P1)
Chair: Thomas Wandlowski, Brian Hayden

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Arkady Karyakin, Daniel Mandler, Danny O’Hare

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Jean Lessard, Elisabet Dunach

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Maria Ariza, Evgeny Katz

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Kurt Hebert, Kevin Ogle

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Sergio Trasatti, Thomas W. Chapman

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Nicola Alonso-Vante, Mogens Mogensen
Symposium 8b: Electrochemical Energy Conversion and Storage  
Location: Room 107 (Floor E1)  
Chair: Ruediger Koetz, Prof. Kwang Bum Kim

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion  
Location: Room 213 (Floor P1)  
Chair: Patrice Simon

Symposium 10: General Session  
Location: Room 215 (Floor P1)  
Chair: M. Anderson, A. Hubin

TUESDAY 9 SEPTEMBER 2008 - PM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells  
Salón de Grados (Floor PA)  
Chair: Giuseppe Palleschi, Taek Dong Chung

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods  
Location: Room 210 (Floor P1)  
Chair: Gary Attard

Symposium 3: Electroanalytical Chemistry at the Nanoscale  
Location: Room 211 (Floor P1)  
Chair: Marcin Opallo, Frederique Deiss

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers  
Location: Room 209 (Floor P1)  
Chair: Jim Simpson, Jiri Ludvik

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development  
Location: Room 007 (Floor PB)  
Chair: Salvatore Piazza, Giovanni Zangari

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications  
Location: Room 212 (Floor P1)  
Chair: Kevin Ogle, Kurt Hebert

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes  
Location: Room 214 (Floor P1)  
Chair: Geoff Kelsall, Masatsugu Morimitsu

Symposium 8: Electrochemical Energy Conversion and Storage  
Main Theatre (Salón de Actos, Floor PB)  
Chair: Radoslav Adzic, Zempachi Ogumi

Symposium 8b: Electrochemical Energy Conversion and Storage  
Location: Room 107 (Floor E1)  
Chair: Elzbieta Frackowiak, Wataru Sugimoto

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion  
Location: Room 213 (Floor P1)  
Chair: Debra Rolison

Symposium 10: General Session  
Location: Room 215 (Floor P1)  
Chair: M. E. Vela, E. Vieil

WEDNESDAY 10 SEPTEMBER 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells  
Salón de Grados (Floor PA)  
Chair: Wolfgang Schuhmann, Steffi Krause
Symposium 2: **Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**
Location: Room 210 (Floor P1)
Chair: David Fermin

Symposium 2b: **Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**
Location: Room 213 (Floor P1)
Chair: Juergen Behm

Symposium 3: **Electroanalytical Chemistry at the Nanoscale**
Location: Room 211 (Floor P1)
Chair: Damian Arrigan, Guy Denuault

Symposium 4: **Molecular Electrochemistry: From Single Molecules to Conducting Polymers**
Location: Room 209 (Floor P1)
Chair: Alain Deronzier, Angela Molina

Symposium 5: **Electrochemistry of New Materials and Novel Microstructures for Sustainable Development**
Location: Room 007 (Floor PB)
Chair: John Stickney, Claude Levy-Clement

Symposium 6: **Corrosion: Fundamental Understanding to Practical Applications**
Location: Room 212 (Floor P1)
Chair: Kemal Nisancioglu, Ramon Novoa

Symposium 7: **Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes**
Location: Room 214 (Floor P1)
Chair: André Savall, Ann Cornell

Symposium 8: **Electrochemical Energy Conversion and Storage**
Main Theatre (Salón de Actos, Floor PB)
Chair: Hector Abruna, Pascal Mairre

Symposium 8b: **Electrochemical Energy Conversion and Storage**
Location: Room 107 (Floor E1)
Chair: Ernesto Rafael Gonzalez, Dr. Andrei Kulikovsky

Symposium 10: **General Session**
Location: Room 215 (Floor P1)
Chair: G. Lang, I. Vandendael

**THURSDAY 11 SEPTEMBER 2008 - AM**

Symposium 1: **From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells**
Salón de Grados (Floor PA)
Chair: Lo Gorton, Judith Rishpon

Symposium 2: **Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**
Location: Room 210 (Floor P1)
Chair: Antonio Rode

Symposium 3: **Electroanalytical Chemistry at the Nanoscale**
Location: Room 211 (Floor P1)
Chair: Tomokazu Matsue, Ligia Maria Moretto

Symposium 4: **Molecular Electrochemistry: From Single Molecules to Conducting Polymers**
Location: Room 209 (Floor P1)
Chair: Francisco Montilla, Richard Nichols

Symposium 5: **Electrochemistry of New Materials and Novel Microstructures for Sustainable Development**
Location: Room 007 (Floor PB)
Chair: Sachiko Ono, Kohei Uosaki
Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 213, 1st Floor
Chair: Mikheil Vorontyntsev, Hiroki Habazaki

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Ramon Novoa, Kemal Nisancioglu

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Christos Comninellis, Sandra Rondinini

Symposium 8: Electrochemical Energy Conversion and Storage
Main Theatre (Salón de Actos, Floor PB)
Chair: Robert Kostecki

Symposium 8b: Electrochemical Energy Conversion and Storage
Location: Room 107 (Floor E1)
Chair: Elton Cairns, Prof. Andrea Russell

Symposium 10: General Session
Location: Room 215 (Floor P1)
Chair: G. Snook, Z. Samec

THURSDAY 11 SEPTEMBER 2008 - PM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells
Salón de Grados (Floor PA)
Chair: Jan Labuda, Miroslav Fojta

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods
Session dedicated to Profs. Jan Sluyters and Margaretha Sluyters-Rehbach in recognition of their significant contributions to physical and interfacial electrochemistry
Location: Room 210 (Floor P1)
Chair: Rafael Andreu, Marc Koper

Symposium 3: Electroanalytical Chemistry at the Nanoscale
Location: Room 211 (Floor P1)
Chair: Maria Encarnacion Lorenzo, Chee-Seng Toh

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers
Location: Room 209 (Floor P1)
Chair: Ladislav Kavan, Gérard Bidan

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 007 (Floor PB)
Chair: Waldfried Plieth, Włodzimierz Kutner

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development
Location: Room 213 (Floor P1)
Chair: Ivan Krastev, Achim Walter Hassel

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications
Location: Room 212 (Floor P1)
Chair: Fatima Montemor, Irina Serebrennikova

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes
Location: Room 214 (Floor P1)
Chair: Claude Levy-Clement, Yoshio Takasu
Program of the 59th Annual Meeting of the International Society of Electrochemistry

Symposium 8: **Electrochemical Energy Conversion and Storage**  
Main Theatre (Salón de Actos, Floor PB)  
Chair: Petr Novák

Symposium 8b: **Electrochemical Energy Conversion and Storage**  
Location: Room 107 (Floor E1)  
Chair: Claude Lamy, Masahiro Watanabe

Symposium 10: **General Session**  
Location: Room 215 (Floor P1)  
Chair: Katsuhiko Naoi

FRIDAY 12 SEPTEMBER 2008 - AM

Symposium 1: **From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells**  
Salón de Grados (Floor PA)  
Chair: Paul Millner, Phillip Bartlett

Symposium 2: **Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**  
Location: Room 210 (Floor P1)  
Chair: Ezequiel Leiva

Symposium 2b: **Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**  
Location: Room 213 (Floor P1)  
Chair: Enrique Herrero

Symposium 3: **Electroanalytical Chemistry at the Nanoscale**  
Location: Room 211 (Floor P1)  
Chair: Virginia Ruiz, José M. Pingarron

Symposium 4: **Molecular Electrochemistry: From Single Molecules to Conducting Polymers**  
Location: Room 209 (Floor P1)  
Chair: Catherine Combellas, Bernd Speiser

Symposium 5: **Electrochemistry of New Materials and Novel Microstructures for Sustainable Development**  
Location: Room 007 (Floor PB)  
Chair: Thierry Pauporte, Estibalitz Ochoteco

Symposium 5b: **Electrochemistry of New Materials and Novel Microstructures for Sustainable Development**  
Location: Room 107 (Floor E1)  
Chair: Robert Dryfe, Hiroaki Tsuchiya

Symposium 6: **Corrosion: Fundamental Understanding to Practical Applications**  
Location: Room 212 (Floor P1)  
Chair: Irina Serebrennikova, Fatima Montemor

Symposium 7: **Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes**  
Location: Room 214 (Floor P1)  
Chair: Emilia Morallón, Marco Musiani

Symposium 8: **Electrochemical Energy Conversion and Storage**  
Main Theatre (Salón de Actos, Floor PB)  
Chair: Katsuhiko Naoi

Symposium 10: **General Session**  
Location: Room 215 (Floor P1)  
Chair: A. Cuesta, C. Deslouis
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Tutorial Lectures

Sunday 7 September, 2008
16:00 to 19:30

Impedance Spectroscopy

Martin Bojinov
Tamas Pajkossy

Location:
Faculty of Chemistry (Facultad de Química)
Campus of Reina Mercedes
Street: Profesor García González 1 and 2

Scanning Probe Microscopy

Vincent Vivier
Julie Macpherson

Location:
Faculty of Pharmacy (Facultad de Farmacia)
Campus of Reina Mercedes
Street: Profesor García González 1 and 2
2007 ISE Prize Winners and Award Lecturers

Tajima Prize
**Tuesday 9** September, **10:10 to 10:30**, Room 107 (Floor E1)

*Chi-Chang Hu*, National Chung Cheng University, Taiwan

Recent Advances in Oxide-Based Electrochemical Supercapacitors

Prix Jacques Tacussel
**Monday 8** September, **11:10 to 11:50**, Room 210 (Floor P1)

*Bruno Pettinger*, Fritz Haber Institut, Berlin, Germany

Tip-enhanced Raman spectroscopy at interfaces

Hans-Jürgen Engell Prize
**Thursday 11** September, **16:50 to 17:30**, Room 007 (Floor PB)

*Hiroaki Tsuchiya*, Osaka University, Japan

Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers

Katsumi Niki Prize for Bioelectrochemistry
**Monday 8** September, **9:10 to 9:50**, Salón de Grados (Floor PA)

*Philip N. Bartlett*, University of Southampton, UK

Understanding Enzyme Electrodes

Klaus-Jürgen Vetter Prize for Electrochemical Kinetics
**Thursday 11** September, **17:30 to 17:50**, Room 210 (Floor P1)

*Magdalena Hromadová*, Heyrovský Institute of Physical Chemistry, Prague, Czech Republic

Cationic Catalysis and Current Oscillations in the Reduction of Aromatic Nitrocompounds

Frumkin Memorial Medal
**Monday 8** September, **15:00 to 16:00**, Salón de Actos (Floor PB1)

*Jean Clavilier*, LEI CNRS, France

An experience of interfacial and surface electrochemistry

Oronzio and Niccolò De Nora Foundation Prize of ISE on Electrochemical Energy Conversion
**Wednesday 10** September, **10:10 to 10:30**, Salón de Actos (Floor PB)

*Priscilla Reale*, University “La Sapienza”, Rome, Italy

Application of Ionic Liquids as electrolytes for safe and sustainable lithium ion batteries

Oronzio and Niccolò De Nora Foundation Young Author Prize
**Thursday 11** September, **10:50 to 11:10**, Room 210 (Floor P1)

*Nuria García-Araez*, University of Alicante, Spain

Water reorientation on adatom-modified Pt(111) from nanosecond laser pulsed experiments
Opening Ceremony

Monday 8 September, 8:30 to 9:00, Salón de Actos (Floor PB)

Plenary Lecturers

Monday 8 September, 15:00 to 16:00, Salón de Actos (Floor PB)

Professor Jean Clavilier LEI CNRS, France
An experience of interfacial and surface electrochemistry

Tuesday 9 September, 9:00 to 10:00, Salón de Actos (Floor PB)

Professor Christian Amatore (CNRS, Paris, France)
Neurovascular Coupling Between Neuronal Activity and Blood Delivery in Brain

Wednesday 10 September, 9:00 to 10:00, Salón de Actos (Floor PB)

Professor Henry S. White (University of Utah, USA)
Electrochemistry in Synthetic and Biological Nanopores

Thursday 11 September, 9:00 to 10:00, Salón de Actos (Floor PB)

Professor Richard G. Compton (University of Oxford, UK)
The Design, Characterisation and Application of Nanoelectrode Arrays

Friday 12 September, 9:00 to 10:00, Salón de Actos (Floor PB)

Professor Zhong-Qun Tian (Xiamen University, China)
Electrochemical SERS from Nanostructured Electrodes: Towards a Versatile Vibrational Strategy
Exhibition and Poster Sessions

Exhibition

Open Times
- Monday: 10:00-19:10
- Tuesday: 10:00-19:50
- Wednesday: 10:00-15:30
- Thursday: 10:00-18:50
- Friday: 10:00-12:10

Exhibition Reception Tuesday 18:10-19:50

Posters

Session 1: Poster set-up Monday 08:15-09:00
for posters in symposium 1, 2, 3, 4 and 5
See symposium locations on page 167

Open Times for viewing
- Monday: 10:00-19:00
- Tuesday: 09:00-19:50

Poster Presentation times
- Monday: 14:10-14:50
  18:10-19:10
- Tuesday: 14:10-15:10
  18:10-19:50

Poster take-down Tuesday 19:50

Session 2: Poster set-up Wednesday 08:30-09:30
for posters in symposium 6, 7, 8, 9 and 10
See symposium locations on page 167

Open Times for viewing
- Wednesday: 10:00-15:30
- Thursday: 09:00-18:50
- Friday: 09:00-12:10

Poster Presentation times
- Wednesday: 14:30-15:30
- Thursday: 14:10-15:10
  17:50-18:50
- Friday: 11:30-12:10

Poster take-down Friday 12:10
Oral presentation program
**Monday 8 September 2008**

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<td>Room 107: B. Liu M. Opollo A. Gennaro D. Schlcttwein B. Bello-Rodriguez O. Scialdone M. Watanabe K. Kanamura B. Losiewicz</td>
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<td>12:10-12:30</td>
<td>Room 007: T. Ruoggas E. Leiva M. Schmittel A. Kongkanand</td>
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<td>12:30-12:50</td>
<td>Room 107: B. Liu M. Opollo A. Gennaro D. Schlcttwein B. Bello-Rodriguez O. Scialdone M. Watanabe K. Kanamura B. Losiewicz</td>
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<td>14:10-14:30</td>
<td>Poster session / coffee Symposia S1, S2, S3, S4 &amp; S5</td>
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<td>14:30-14:50</td>
<td>Poster session / coffee Symposia S1, S2, S3, S4 &amp; S5</td>
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<td>15:00-16:00</td>
<td>Plenary lecture: Professor Jean Clavilier, - Main Theatre (Salón de Actos)</td>
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<td>16:30-16:50</td>
<td>Room 007: Chee-Seng Toh M. Largeron N. Pebele L. Stoica E. Tesianneli D. Rolison T. Nagaura</td>
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<td>17:30-17:50</td>
<td>Room 212: M. Pedero J. Newton B. Speiser B. M. Soucase F. Silva S. Joire M. Morimitsu S. Sotropoulos R. Bilewicz C. R. Costa</td>
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<td>18:30-19:10</td>
<td>Poster session Symposia S1, S2, S3, S4 &amp; S5</td>
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<td>19:10-19:30</td>
<td>Departure to Reales Alcázares - City Reception</td>
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Monday 8 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Ana Maria Oliveira Brett, Nabil El Murr

09:10 to 09:50 Keynote
Philip Bartlett (School of Chemistry, University of Southampton, Southampton, United Kingdom)
Understanding Enzyme Electrodes

09:50 to 10:10 Invited
Nabil El Murr (CNRS / University of Nantes, Nantes, France), Carmen Creanga
Kinetic Studies to Better Comprehend the Electron Transfers, via Mediators, Between Redox Enzymes and Electrode Surface and hence to Dispose of Interferences.

10:10 to 10:30 Invited
Tautgirdas Ruzgas (Biomedical Laboratory Science, Technology, Faculty of Health and Society, Malmö University, Malmö, Sweden)
Amperometric Response from Metabolic Pathways in Saccharomyces cerevisiae Cells

10:30 to 11:10 COFFEE BREAK

11:10 to 11:30 Invited
Hayley Morley (Molecular Organisation and Assembly in Cells, Coventry, United Kingdom), Stuart Mackenzie, Julie Macpherson, Mikhail Mazurenka, Mathias Schnippering, Patrick Unwin, Meiqin Zhang
A New Instrument to Probe the Assembly of Functionalized Interfaces: From Small Molecules to Proteins

11:30 to 11:50 Invited
Fred Lisdat (Biosystems Technology Wildau University of Applied Sciences, Wildau, Germany)
Catalytically active protein multilayer architectures on electrodes prepared by a self assembly approach

11:50 to 12:10 Invited
Frank Nelson Crespilho (UFABC-Brazil, Santo André, Brazil)
Bionanocomposite-modified Electrodes: Enhanced Charge Transport and Bioactivity Maximization

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Marc Koper, Jacek Lipkowski

09:10 to 09:30
Gary Attard (Cardiff University, Cardiff, United Kingdom)
Electrochemical approaches to elucidating mechanism in heterogeneous catalysis

09:30 to 09:50 Invited
Kingo Itaya (Tohoku University WPI, Department of Applied Chemistry, Sendai, Japan)
Atomic Aspects of Site-selective Anodic Dissolution of Metals and Semiconductors
MONDAY AM

09:50 to 10:10 Invited
Brian Hayden (School of Chemistry, Southampton, United Kingdom)
Particle Size and Support Effects in Electrocatalysis

10:10 to 10:50 Keynote
Ezequiel Leiva (Unidad de Matemática y Física, INFIQC, Córdoba, Argentina), Sergio Dassie, Marcelo Mariscal, Jimena Olmos, Patricio Velez
When do nanowires break? A model for the theoretical study of the long-term stability of monoatomic nanowires

10:50 to 11:10
Coffee Break

11:10 to 11:50 Keynote
Bruno Pettinger (Dept. of Physical Chemistry, Fritz Haber Institute of the Max Planck Society, Berlin, Germany), Katrin E. Domke, Jens Steidtner, Dai Zhang
Tip-enhanced Raman spectroscopy at interfaces

11:50 to 12:10
Akiyoshi Kuzume (Department of Chemistry Faculty of Science and Technology, Yokohama, Japan), Masatoki Ito, Yosuke Mochiduki, Tetsuyuki Tsuchida
Methanol oxidation on Pt-O/OH surface

12:10 to 12:30
R. Jürgen Behm (Institute of Surface Chemistry and Catalysis ULM University, Ulm, Germany), Luis Colmenares, Hans Fredriksson, Jürgen Fuhrmann, Per Hanarp, Ekkehard Holzebecher, Zenonas Jusys, Bengt Kasemo, Rakel Lindström, Anja Schneider, Yvonne Seidel, Bjorn Wickman, Hong Zhao
Mesoscopic Transport Effects in Electrocatalytic Reactions

12:30 to 12:50
Dimitri Khoshtariya (Institute of Molecular Biology and Biophysics, Tbilisi, Georgia), Tina Dolidze, Peter Illner, Rudi van Eldik
Nonadiabaticity, Dynamical Arrest, and Frictional Control of Heterogeneous Electron Transfer at Au/SAM/RTIL Junctions

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)
Chair: György Inzelt, Hasuck Kim, Richard Compton

09:10 to 09:30
Salvatore Daniele (Physical Chemistry, University of Venice, Venice, Italy), M. Antonietta Baldo, Dario Battistel, Carlo Bragato, Rosalba Gerbasi
Characterisation of Pt/tiO_2 And Pt/al_2O_3 Thin Films And Nanocomposites for Electrochemical Sensors Applications

09:30 to 09:50 Invited
Maria Encarnacion Lorenzo (Quimica Analitica, Madrid, Spain), Elena Casero, Tania Garcia, Jaime Martin-Benito, Felix Pariente, Monica Revenga-Parra, Luis Vazquez
Gold nanoparticles based architectures as a new route to improve the analytical properties of DNA-Sensing electrochemical systems.

09:50 to 10:30 Keynote
Damien Arrigan (Tyndall National Institute, Cork, Ireland)
Development of nanoscale electrochemical devices for bioanalytical systems

10:30 to 10:50 Invited
Marcin Opallo (Institute of Physical Chemistry PAS, Warsaw, Poland), Laurent Gaillon, Adam Lesniewski, Joanna Niedziolka, Cecile Rizzi, Katarzyna Szot
Electrodes modified with ionic liquid covalently bonded to sol-gel processed silicate

10:50 to 11:10 Coffee Break
11:10 to 11:30 Invited
Virginia Ruiz (Dept. of Engineering Physics, Helsinki University of Technology, Espoo, Finland),
Alvaro Colina, Aranzazu Heras, Esko I. Kauppinen, Jesus Lopez-Palacios, Bernadette M. Quinn
In-situ Absorption Spectroscopy for the study of dynamic electrochemical processes in nanomaterials

11:30 to 11:50
Laurent Thouin (Ecole Normale Superieure, Chemistry Department, UMR CNRS 8640, Paris, France),
Christian Amatore, Nicolas Da Mota, Célia Lemmer, Catherine Sella
Amperometric Detection for Microfluidic Analytical Chips

11:50 to 12:10 Invited
Munetaka Oyama (Graduate School of Engineering, Kyoto University, Kyoto, Japan), Akiko Orimo
Attachment of Gold Nanoparticles on Indium Tin Oxide Electrodes using Linker Molecules

12:10 to 12:30
Claudia Baier (Technische Universität München, Department of Physics E19, Garching, Germany),
Ulrich Stimming
Combined Electrochemical Scanning Tunneling Microscopy (EC-STM), Scanning Electrochemical Potential Microscopy (SECPM) Study of Electrode Surfaces

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)
Chair: Ole Hammerich, Daniel Little

09:10 to 09:50 Keynote
Daniel Little (Chemistry & Biochemistry, Santa Barbara, USA), Young Sam Park
Rearrangements of cation radicals; application to total synthesis

09:50 to 10:10 Invited
Jean Lessard (Département de chimie, Université de Sherbrooke, Sherbrooke, Canada), Jean Marc Chapuzet, Cecilia Cistea, Frédéric Couture-Martin, Alireza Sardashti
Electroreduction of nitrocyclopropanes and nitroaryl cyclopropanes

10:10 to 10:30 Invited
Michael Schmittel (Center of Micro and Nanochemistry and Technology, Department of Chemistry, Universität Siegen, Siegen, Germany), Rochus Breuer
Forget Ferrocene for Applications in Aqueous Media!

10:30 to 10:50
Armando Gennaro (Dept. Chemical Sciences, Padova, Italy), Abdirisak Ahmed Isse, Christian Durante, Silvia Gottardello
Electrocatalysis at metal cathodes and dissociative electron transfer mechanisms

10:50 to 11:10
Coffee Break

11:10 to 11:30
Leif Nyholm (Uppsala University, Department of Materials Chemistry, Uppsala, Sweden), Per Sjöberg,
Camilla Zettersten
Electrochemistry coupled to Electrospray Mass Spectrometry for the study of the Oxidation of 4-Chloroaniline

11:30 to 11:50
Elisabet Dunach (CNRS, University of Nice-Sophia Antipolis, Nice, France), Julien Godeau, Sandra Olivo, Christine Pintaric
Synthesis of Allyl- and Benzylboronic Acids and Esters by a Simple Electrochemical Methodology
11:50 to 12:10
James Y. Becker (Chemistry Department, Beer Sheva, Israel)
Anodic C-Si Bond Cleavage in ArSiH₃ and ArSi(OEt)₃ Derivatives

12:10 to 12:30 Invited
Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Alberto Bossi, Emanuela Licandro, Stefano Maiorana
Electrochemical Activity of Thiahelicenes: Structure Effects and Electropolymerization Ability

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)
Chair: Carlos M. Muller, Toribio Fernández Otero

09:10 to 09:30
Elisabeth Chassaing (Institute of R&D on Photovoltaic Energy (EDF-CNRS-ENSCP), Chatou, France)
Electrocrystallization mechanism of Cu-In-Se compounds for solar cell applications

09:30 to 09:50
John Stickney (Department of Chemistry, Athens, USA)
Electrochemical Atomic Layer Deposition

09:50 to 10:10
Sixto Giménez (Departamento de Física, Universidad Jaime I de Castellón, Castellón de la Plana, Spain), Eva M. Barea, Juan Bisquert, Francisco Fabregat-Santiago, Roberto Gómez, Teresa Lana-Villareal, Lourdes Márquez, Thomas Mochl, Iván Mora-Seró
Processing and electrochemical characterization of CdSe quantum dot sensitized solar cells

10:10 to 10:30
Anusorn Kongkanand (Fuel Cell Activities, Honeoye Falls, USA), Prashant Kamat, Masaru Kuno, Kensuke Takechi, Kevin Tvrdy
Improved Light Energy Conversion with Finely Tuned Quantum Dot Solar Cell

10:30 to 10:50
Derck Schlettwein (Institute of Applied Physics, Justus-Liebig-University Gießen, Gießen, Germany), Andreas Hastall, Thomas Loewenstein, Markus Mingebach, Andreas Neudeck, Yvonne Zimmermann
Textiles as Substrate Electrodes for Electrodeposited ZnO- a New Pathway to Textile-Based Photovoltaics

10:50 to 11:10
Coffee Break

11:10 to 11:50 Keynote
Claude Lévy-Clément (ICMPE/CNRS, Thiais, France)
Electrochemical Deposition of Semiconductor Thin films For Photovoltaic Applications

11:50 to 12:10
Thierry Pauporté (LECA-ENSCP, Paris cedex 05, France), Daniel Lincot
Mesoporous ZnO thin films prepared by Dye-Assisted Electrodeposition - Application dye sensitized solar cells.

12:10 to 12:30
Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel
Spark Discharge Anodization as a Pretreatment Method For Corrosion-protection, Bonding and Coating Processes
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

Location: Room 212 (Floor P1)
Chair: Hisasi Takenouti, Suzanne Joiret

09:10 to 09:30 Invited
Liana Maria Muresan (“Babes-Bolyai” University, Department of Physical Chemistry, Cluj-Napoca, Romania), Hisasi Takenouti, Simona Varvara
Effect of some non-toxic inhibitors on the corrosion of bronze and on the patina of bronze artefacts

09:30 to 09:50
Rimantas Ramanauskas (Metal electrochemistry Department, Institute of Chemistry, Vilnius, Lithuania), Laima Gudaviciute, Aleksandr Kosenko, Olga Scit
Structural and Corrosion Characterization of Nanostructured Zn Alloy Coatings

09:50 to 10:30 Keynote
Hisasi Takenouti (LISE - CNRS, Ivry sur Seine, France), Najat Hajjaji, Kamal Rahmouni, Abdellah Srhiri
Protection of archaeological bronze by triazole derivatives

10:30 to 10:50
Belen Bello Rodriguez (META/MACH Vrije Universiteit Brussel, Brussels, Belgium), Bernhard Kernig, Arjan Mol, Herman Terryn
Electrochemical characterization of the corrosion and passivation properties of defects present in the sub-surface of aluminium alloys

10:50 to 11:10 Coffee Break

11:10 to 11:30
David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Juliano Borges, Patrick Choquet, Emmanuel Rocca
Corrosion resistance of copper treated by carboxylatation and/or atmospheric plasma

11:30 to 11:50
Maria João Correia (LNEC, Lisbon, Portugal), Inês Fonseca, Maria Manuela Salta
Corrosion Resistance and Passive Film Characteristics of Austenitic Stainless Steel Alloys in Alkaline Solution

11:50 to 12:10
Bernard Tribollet (LISE, UPR 15 du CNRS, Paris cedex 05, France), Christine Blanc, Nadine Pebbere, Vincent Vivier
Corrosion of Copper-Aluminium System in Thin-Layer Cell

12:10 to 12:30
Quentin Van Overmeere (Division of Materials and Process Engineering, Université catholique de Louvain, Louvain-la-Neuve, Belgium), Jean-Francois Vanhumbeek, Joris Proost
In-situ investigation of the relationship between electrical and mechanical properties during the growth of anodic oxide films

12:30 to 12:50
Sandro Cattarin (IENI - CNR, Padova, Italy), Nicola Comisso, Marco Musiani, Bernard Tribollet
Impedance of Valve Metals Covered by Passive Films of Graded Local Thickness
Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location: Room 214 (Floor P1)**
Chair: Constantinos Vayenas, Pietro Cavallotti

09:10 to 09:30
Yoshio Takasu (Department of Fine Materials Engineering, Shinshu University, Ueda, Japan), Tatsuya Ohashi
   Catalytic Roughening of Surface Layers of BDD for Various Applications

09:30 to 09:50
Raul Berenguer (Departamento de Química Física e Instituto Universitario de Materiales de Alicante, Alicante, Spain), Antonio Benito Fuertes, Emilia Morallón, César Quijada, Teresa Valdés-Solís
   Phenol oxidation on nanostructured Co₃O₄ electrodes prepared by different methods

09:50 to 10:10
Sönke Schmachtel (Helsinki University of Technology, Espoo, Finland), Kyösti Kontturi
   Physicochemical processes at composite electrodes used for oxygen evolution reaction in metal electrowinning

10:10 to 10:30
Heidi Van Parys (Vrije Universiteit Brussel, Brussels, Belgium), Johan Deconinck, Annick Hubin, Thomas Nierhaus, Philippe Planquart, Flora Tomasoni
   Contribution to the two-phase modeling of gas evolution reactions

10:30 to 10:50
Onofrio Scialdone (Dipartimento di Ingeneria Chimica dei Processi e dei Materiali, Palermo, Italy)
   Electrochemical incineration of oxalic acid in the presence of NaCl

10:50 to 11:10
Coffee Break

11:10 to 11:30
Daniel Bélanger (Chimie, Montréal, Canada), Oleg Brylev, Ouassim Ghodbane, David Reyter, Mathieu Sarrazin
   Electrode Materials for Reduction of Nitrate

11:30 to 11:50
Sandra Rondinini (Department of Physical Chemistry and Electrochemistry, The University of Milan, Milano, Italy), Silvia Ardizzone, Allen J Bard, Giuseppe Cappelletti, Alessandro Minguzzi, Alberto Vertova
   Oxygen evolution electrocatalysts: innovative synthetic paths and investigation methodologies

11:50 to 12:30 Keynote
Sergio Trasatti (Department of Physical Chemistry and Electrochemistry, University of Milan, Milan, Italy)
   Water Electrolysis: Variables of Process

12:30 to 12:50
Maria José Pacheco (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Ana Lopes, Viviana Santos, Amélia Rute Santos
   Electrochemical degradation of aromatic amines using a BDD anode
Symposium 8: Electrochemical Energy Conversion and Storage

Main Theatre (Salón de Actos, Floor PB)
Chair: Guenther Scherer, Edson Ticianelli

09:10 to 09:30 Invited
Minoru Inaba (Department of Molecular Science and Technology, Faculty of Eng., Doshisha University, Kyotanabe, Japan), Koichi Matsuzawa, Akimasa Tasaka, Hirohisa Yamada
Recent Developments and Future Prospects of Platinum Electrocatalyst for Fuel Cell Applications

09:30 to 09:50 Invited
Andrea E. Russell (School of Chemistry, University of Southampton, Southampton, United Kingdom)
Synchrotron characterization of electrocatalytic materials

09:50 to 10:30 Keynote
Radoslav Adzic (Brookhaven National Laboratory, New York, USA)
Some Recent Advances and Existing Challenges in Electrocatalysis of the $\text{O}_2$ Reduction Reaction

10:30 to 10:50
Masahiro Watanabe (Clean Energy Research Center/University of Yamanashi, Kofu, Japan), Hiroyuki Uchida, Hiroshi Yano
Activity & Stability of PtCo$_x$/CB Prepared by Nanocapsule Method for Oxygen Reduction

10:50 to 11:10
Coffee Break

11:10 to 11:30
Swathy Swathirajan (Fuel Cell Research Lab, General Motors Research and Development Center, Warren, USA), Frederick Wagner
Durability and Platinum Thrifting Studies of Catalysts in PEM Fuel Cells

11:30 to 11:50
Frédéric Jaouen (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet
A Model for the $\text{O}_2$ Reduction on Non-noble Catalysts: 2e Reduction Followed by Chemical Decomposition of $\text{H}_2\text{O}_2$

11:50 to 12:10 Invited
Carlos Raul Cabrera (Department of Chemistry, University of Puerto Rico, San Juan, Puerto Rico), Luis Echegoyen, Yasuyuki Ishikawa, Amit Palkar, Diana Santiago
Electrochemical Preparation of PtRu Nanoparticles at Carbon Support Material using a Rotating Disk Slurry Electrode (RoDSE) Technique

12:10 to 12:30 Invited
Pei Kang Shen (School of Physics and Engineering, Sun Yat-Sen University, Guangzhou, China)
Recent progress in the understanding of alcohol oxidation for fuel cell applications
Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)
Chair: Daniel A. Scherson

09:10 to 09:50 Keynote
Emanuel Peled (School of Chemistry Tel Aviv University, Tel Aviv, Israel), Kany Friedman, Diana Golodnitsky, Svetlana Menkin, Menachem Nathan, Tania Ripenbein, Inna Shekhtman, Ela Strauss, Vladimir Yufit
D-Microbatteries for Medical and Technological Applications

09:50 to 10:10 Invited
Kyoung-Shin Choi (Department of Chemistry, Purdue University, West Lafayette, USA)
Morphology-Dependent Electrochemical and Photoelectrochemical Properties of Inorganic Electrodes

10:10 to 10:30
Sophie Tintignac (CNRS/CEA, Grenoble, France)
Optimized LiCoO$_2$ thin films prepared by rf magnetron sputtering as positive electrodes for all-solid-state microbatteries

10:30 to 10:50
Kiyoshi Kanamura (Department of Applied Chemistry, Tokyo Metropolitan University, Tokyo, Japan), Kaoru Dokko, Masaki Matsui, Takayuki Mine, Midori Segawa
In situ FTIR Analysis of Decomposition of Organic Electrolytes for Lithium Batteries

10:50 to 11:10 COFFEE BREAK

11:10 to 11:50 Keynote
Patrice Simon (Universté Paul Sabatier, Toulouse, France), Pierre Louis Taberna
Nanostructured Electrodes for Energy Storage Applications

Symposium 10: General Session

Location: Room 215 (Floor P1)
Chair: C. Gutierrez, A. Lasia

09:50 to 10:10 Invited
Janaína Souza-Garcia (Instituto de Química de São Carlos, Universidade de São Paulo, São Carlos, Brazil), Antonio Berná, Victor Climent, Juan Feliu, Edson Ticianelli
Electrochemical Properties of Palladium Adlayers on Pt(110) Substrates

10:10 to 10:30
Joaquín Arias-Pardilla (Departamento de Química Física and Instituto Universitario de MaterialesUniversidad de Alicante, Alicante, Spain), Jospeh Manuel Calo, Diego Cazorla-Amorós, Emilia Morallón
Arsenic species interactions on porous carbon electrode determined by electrochemical quartz crystal

10:30 to 10:50
Bozena Losiewicz (Institute of Materials Science, University of Silesia, Katowice, Poland), Rafal Jureczkowski, Andrzej Lasia
Kinetics and Thermodynamics of Hydrogen UPD on Rhodium in Acid Solutions

10:50 to 11:10 COFFEE BREAK
11:10 to 11:30
Rafal Jurczakowski (University of Warsaw, Warsaw, Poland), Bozena Losiewicz
Kinetics and Thermodynamics of Hydrogen UPD on Iridium in Perchloric and Sulfuric Acids

11:30 to 11:50
Mathieu Gibilaro (Laboratoire de Génie Chimique, Toulouse, France), Pierre Chamelot, Laurent Massot, Pierre Taxil
Study of Aluminium-Lanthanide Extraction in Molten Fluorides by Electrochemical Co-Reduction

11:50 to 12:10
Marc Anderson (UW-Madison, Madison, USA), Kevin Leonard
Asymmetric Porous Oxide Electrolyte Membrane Ultracapacitive Water Treatment

12:10 to 12:30
Isabelle Vandendael (Vrije Universiteit Brussel, Department Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Johan Deconinck, Annick Hubin, Bernhard Mollay, Gabriela Telias, Heidi Van Parys
Contribution of FE-AES to the Mechanistic Modeling of a Metal Deposition Reaction with Simultaneous Hydrogen Evolution
Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

**Salón de Grados (Floor PA)**
Chair: Mamantos Prodromidis, Fred Lisdat

16:10 to 16:50 **Keynote**
Frieder W. Scheller (University of Potsdam, Department of Analytical Biochemistry, Potsdam-Golm, Germany), Fred Lisdat, Dorothea Pfeiffer, Roberto Spricigo, Ulla Wollenberger
Renaissance of Electrochemical Sensors

16:50 to 17:10 **Coffee Break**

17:10 to 17:30 **Invited**
Mamantos Prodromidis (Department of Chemistry, University of Ioannina, Ioannina, Greece), Antonios Pournaras
Development of Impedimetric Immunosensors for the Direct Detection of Salmonella typhimurium in Untreated Cultures of Standard and Real Samples

17:30 to 17:50
Susana Cordoba de Torresi (Instituto de Quimica, Universidade de Sao Paulo, Sao Paulo, Brazil), Suelem Takahashi
Direct electrochemistry of Cytochrome C by conducting polymer functionalization. The use in NO detection

17:50 to 18:10
María Pedrero (Dto. Química Analítica, Facultad Cc. Químicas, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano, Óscar A. Loaiza, José M. Pingarrón
Disposable DNA Sensor Based on the Immobilization of Biotinylated Enterobacteriaceae lac z Gene probes onto Avidin-DTSP-Self Assembled Monolayer Modified Gold Electrodes

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

**Location: Room 210 (Floor P1)**
Chair: Wolfgang Schmickler

16:10 to 16:50 **Keynote**
Cyrille Costentin (Laboratoire d’Electrochimie Moléculaire, Université Paris - Diderot, Paris, France), Marc Robert, Jean-Michel Savéant
Electrochemical Approach to Concerted Proton-Electron Transfers

16:50 to 17:10 **Coffee Break**

17:10 to 17:50 **Keynote**
Wandlowski Thomas (University of Berne, Department of Chemistry and Biochemistry, Berne, Switzerland), Thomas Wandlowski
Charge Transport with Single Molecules - An Electrochemical Approach

17:50 to 18:10 **Invited**
Marshall Newton (Brookhaven National Laboratory, Upton, USA)
Electron Transfer at Film-modified Metal Electrodes: Mechanistic Analysis Based on Calculated Electronic Structure and Energetics
Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)
Chair: Salvatore Daniele, Munetaka Oyama

16:10 to 16:30
Shen-Ming Chen (Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, Taiwan), Soundappan Thiagarajan, Umasankar Yogeswaran
MWCNTs and metal nanoparticles with nafion and HPâCD composites for the simultaneous determination of neurotransmitters with ascorbic acid and nucleotide bases

16:30 to 16:50 Invited
Chee-Seng Toh (Department of Chemistry, National University of Singapore, Singapore, Singapore)
Development of an integrated separation-sensing membrane-based electroanalytical system

16:50 to 17:10
Coffee Break

17:10 to 17:50 Keynote
Joseph Wang (Biodesign Institute, ASU, Tempe, USA)
Nanomaterial-Based Bioelectronic Devices

17:45 to 18:10
Sophie Griveau (Chemical and Genetical Pharmacology Laboratory, INSERM, U640, CNRS, UMR 8151, Paris, France), Fethi Bedioui, Silvia Gutierrez Grenados, Ana Porras Gutierrez, Cyrille Richard
Stable Immobilization of Carbon Nanotubes on Conductive Surfaces by Electrochemical Means for Electroanalytical Purposes

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)
Chair: James Y. Becker, Michael Schmittel

16:10 to 16:30
Ole Hammerich (Department of Chemistry, University of Copenhagen, Copenhagen, Denmark), Jørn B. Christensen, Thomas Hansen, Asbjørn Thorvildsen
The Structural Changes Resulting from One-Electron Oxidation of 1,4-Phenylenediamines and Low-Generation PAMAM Dendrimers with a 1,4-Phenylenediamine Core

16:30 to 16:50 Invited
Martine Largeron (UMR 8638 CNRS-Université Paris Descartes, Synthèse et Structure de Molécules d'Intérêt Pharmacologique, Paris cedex 06, France)
A One-pot Chemoselective Synthesis of Secondary Amines by Using a Biomimetic Electrocatalytic System

16:50 to 17:10
Coffee Break

17:10 to 17:50 Keynote
Bernd Speiser (Institut für Organische Chemie, Universität Tübingen, Tübingen, Germany)
To Invert or Not to Invert - Reasons for the Occurrence of Normal and Inverted Formal Potentials in Molecular Multi-Electron Transfer Systems

17:50 to 18:10
Andrew Doherty (School of Chemistry and Chemical Engineering, Queen’s University of Belfast, Belfast, United Kingdom), Rachid Barhdadi, Clement Comminges, Jean - Yves Nedelec, Sarah O’Toole, Michel Troupel
Mechanism of TEMPO Mediated Oxidation of Alcohols in Ionic Liquid
Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 007 (Floor PB)
**Chair:** Daniel Lincot, Patrick Schmuki

**16:10 to 16:50 Keynote**
Tsukasa Yoshida (Gifu University, Gifu, Japan), Yoshiya Fujishita, Kazumasa Funabiki, Miura Hidetoshi, Masaki Matsui

*Electrodeposition of Porous Crystalline ZnO Hybrid Thin Films for High Performance Plastic Solar Cells*

**16:50 to 17:10**
**COFFEE BREAK**

**17:10 to 17:30**
Bernabé Marí Soucase (IDF-DFA Universitat Politécnica de València, València, Spain), Rosa Casasus, Jesús Cembrero, Hai Ning Cui, Miguel Mollar

*Tailoring the morphology of electrodeposited ZnO*

**17:30 to 17:50**
Torsten Oekermann (Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Hannover, Germany), Yusuke Okuma, Tsukasa Yoshida

*How can the performance of electrodeposited porous ZnO films in dye-sensitized solar cells be improved? - An investigation by electrochemical impedance spectroscopy*

**17:50 to 18:10**
Carl-Albrecht Schiller (ZAHNER-elektrik, Kronach, Germany), Patrick Schmuki

*Dynamic EIS- and Photo-Electrochemical Measurements on TiO₂-Nanotube Based Photo-Anodes for Dye Sensitised Solar Cells - the Influence of the Annealing Temperature*

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Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 107 (Floor E1)
**Chair:** Derck Schlettwein, Josef Wendrinsky

**17:10 to 17:30**
A Fernando Silva (Departamento Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), Marta Figueiredo, Cristiana Gomes, Renata Costa, Ana Martins, C. M. Pereira

*The structure of the Ionic Liquid/electrode interface*

**17:30 to 17:50**
Ciara K. O’ Sullivan (Department of Chemical Engineering, Universitat Rovira i Virgili, Tarragona, Spain), Laia Civit, Alex Fragoso, Hossam Nassef

*Amperometric sensing of ascorbate using a disposable screen printed electrode modified with electrografted o-aminophenol film*
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location:** Room 212 (Floor P1)  
Chair: Suzanne Joiret, Hisasi Takenouti

16:10 to 16:30  
Nadine Pëbere (CIRIMAT, UMR CNRS 5085, Toulouse, France), Christine Blanc, Loïc Lacroix, Bernard Tribollet  
**Local Electrochemical Measurements on Aluminium-Magnesium systems**

16:30 to 16:50  
Hercilio Gomes de Melo (Polytechnic School of the University of Sao Paulo, Sao Paulo, Brazil), Isolda Costa, Marina Magnani, Fernanda M. Queiroz  
**Microstructural Investigation and Corrosion Behaviour of AA 2024-T3 in Low Concentrated Chloride Media**

16:50 to 17:10  
Coffee Break

17:10 to 17:50 Keynote  
Suzanne Joiret (LISE-UPR15 du CNRS, Paris, France)  
**Understanding corrosion of ancient bronzes for the conservation of cultural heritage**

17:50 to 18:10  
Martin Bojinov (Department of Physical Chemistry, University of Chemical Technology and Metallurgy, Sofia, Bulgaria), Iva Betova, Petri Kinnunen, Klas Lundgren, Timo Saario  
**A kinetic model of the oxide growth and restructuring on structural materials in nuclear power plants**

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location:** Room 214 (Floor P1)  
Chair: Yunni Meas, Claude Deslouis

16:10 to 16:30  
Leonard Stoica (Analytische Chemie, Elektroanalytik & Sensorik, Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Kathrin Eckhard, Thomas Erichsen, Melanie Manjura, Sandra Schmidt, Wolfgang Schuhmann  
**Electrochemical characterisation of Ag-based catalysts with respect to oxygen reduction in alkaline solution**

16:30 to 16:50  
John Gustavsson (Applied electrochemistry, KTH, Stockholm, Sweden), Ann Cornell, Linda Nylén  
**In situ formed rare earth metal hydroxide films as potential alternative to chromate in the chlorate process**

16:50 to 17:10  
Coffee Break

17:10 to 17:50 Keynote  
Masatsugu Morimitsu (Department of Environmental Systems Science, Doshisha University, Kyoto, Japan), Aya Okazaki  
**Electrocatalysis of IrO₂-Ta₂O₅/Ti Electrodes for Hydrogen Peroxide Oxidation in Neutral Buffer Solution**
Symposium 8: Electrochemical Energy Conversion and Storage

**Location:** Main Theatre (Salón de Actos, Floor PB)  
**Chair:** Minoru Inaba

16:10 to 16:50 **Keynote**  
Edson A. Ticianelli (Instituto de Quimica de Sao Carlos, USP, São Carlos, Brazil), Amanda C. Garcia, Pietro P. Lopes  
**Noble and Non Noble Metal Electrocatalysts for Low Temperature Fuel Cells**

16:50 to 17:10  
**Coffee Break**

17:10 to 17:30  
Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Stephan Armyanov, Viacheslav Barsukov, Volodimir Khomenko, Georgios Kokkinidis, Konstantin Likhbitsky, Sofia Papadimitriou, Andromahi Teou, Eugenia Valova  
**Pt and Au shell –bimetallic Pt-M and Au-M core electrocatalysts prepared by electroless exchange of M (M: Pb, Cu, Fe, Co, Ni) by Pt and Au**

17:30 to 17:50  
Otávio Brandão Alves (Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany), R. Juergen Behm, Harry E. Hoster  
**Electrochemical Oxygen Reduction at Pseudomorphic Pt Thin Films on Ru(0001)**

Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

**Location:** Room 213 (Floor P1)  
**Chair:** Bruce Dunn

16:10 to 16:50 **Keynote**  
Debra Rolison (Surface Chemistry Branch, Naval Research Laboratory, Washington, USA), Megan Bourg, Anne Fischer, Jeffrey Long, Justin Lytle, Katherine Pettigrew  
**Architectural Design, 1D Walls, 3D Plumbing, and Interior Design en route to Multifunctional Nanoarchitectures for Energy Storage and Conversion**

16:50 to 17:10  
**Coffee Break**

17:10 to 17:30  
Renata Bilewicz (Department of Chemistry, University of Warsaw, Warsaw, Poland), Grazyna Ginalska, Ewa Nazaruk, Krzysztof Stolarczyk  
**Nanostructured Carbon Electrodes for Bioelectrochemical Devices**

17:30 to 17:50  
Bernhard Seyfang (Paul Scherrer Institut, Electrochemistry Laboratory, Villigen PSI, Switzerland), Pierre Boillat, Thomas Lippert, Guenther G. Scherrer, Alexander Wokaun  
**Liquid Water in Micro Polymer Electrolyte Fuel Cells Not Containing a Gas Diffusion Layer**
Symposium 10: General Session

**Location:** Room 215 (Floor P1)  
**Chair:** V. Climent, K. Yliniemi

16:10 to 16:30  
Tomota Nagaura (Nano Ceramics Center, National Institute for Materials Science, Tsukuba, Japan), Satoru Inoue, Futoshi Takeuchi, Kenji Wada  
**Fabrication of Ordered Au and Ni Nanocones with 100 nm Cone Intervals Using a Porous Anodic Alumina Film**

16:30 to 16:50  
Ichiro Koiwa (Department of Applied Material and Life Science, Faculty of Engineering, Kanto Gakuin University, Yokohama-shi, Japan), Yuki Haijima, Tatsuma Kaneda, Kouichi Sono, Takashi Takahashi  
**Fabrication of Photo-Mask by Electroless Ni-P Plating and Etching on Glass Substrate**

16:50 to 17:10  
**Coffee Break**

17:10 to 17:30  
Carla Regina Costa (Chemistry Department, Faculty of Philosophy, Sciences and Languages of Ribeirão Preto University of São Paulo, Ribeirão Preto, Brazil), Paulo Olivi  
**Effect of chloride concentration on the electrochemical degradation of polyphenolic compounds in tannery wastewater**
### Tuesday 9 September 2008

#### Plenary lecture: Professor Christian Amatore - Main Theatre (Salón de Actos)

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<td>10:10-10:30</td>
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<td>D.M. Soares, K. Vincent, H. Kim, A. Lundin, K. Kaneto, C. Pérez, C. Georges, P. Boillat, Chi-Chang Hu, A. Heller, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>10:30-10:50</td>
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<td>A. Nelson, G. Denuault, M.J. Medeiros, V. Vignal, C. Ponce-de-León, H. Wang, P. Ruch, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>10:50-11:10</td>
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<td>T. Laredo, J. Zhang, K. Toth, J. Zagal, E. Ochoteco, F. Huët, C. Deslouis, M.A. Navarra, W. Sugimoto, D. Scherson, I. Sirés Sadornil, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>S. Roscoe, A. Cuesta, Y. Jingxian, J. Simpson, Z. Stojek, C. Fenster, G. Kelsall, A. Kulkovsky, P. Staiti, J. Thomas, C. Sáez, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>S.G. Sun, K. Adams, C. Kvarnstrom, A. Pérez Ceballos, E. Cairns, J.K. Lee, C. Ana, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>12:10-12:30</td>
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<td>D. Matyszewska, V. Climent, D. Mandler, G.A. Sotzing, K. Ogle, L. Vázquez G., P.J. Kuktsza, E. Frackowiak, J. Harb, C. Jiménez, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>12:30-12:50</td>
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<td>J. Gooding, E. Santos, O. Smiala-Castro, M.C. Romero, K. Fujiwara, A. Taka, R. Jamard, M. Toyoda, B. Dunn, K. Mayrholer, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>12:50-13:10</td>
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<td>A. Wierockas, J. Rossmeisl, L.M. Moretto,</td>
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#### Lunch

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<td>P. Vadgama, N. Markovic, A. Karyakin, D. Posadas, K. Nielsch, L. Ferreira, A.S. Arico, S. Lipka, L. Mihler, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>G. Inzelt, A.L. Telllout,</td>
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<td>F. Mansfeld, F.J. Vidal-Iglesias, T. Matsue, A. Deronzier, D. Wei, K. Hebert, A.F. Gallá, M. Mogensen, J.M. Rojo, G. Amatucci, Z. Samec, M. Mastragostino, Y. Shao-Horn, X. Wang, S1-S8, S8B, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10</td>
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<td>T.D. Chung, G. García</td>
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#### Poster session / coffee

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Poster sessions / Exhibitors reception

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**Symposiums S1, S2, S3, S4 & S5**

- **S1**: TUESDAY, Salón de Grados, Room 210
- **S2**: Room 211
- **S3**: Room 209
- **S4**: Room 007
- **S5**: Room 212
- **S6**: Room 214
- **S7**: Room 216
- **S8**: Room 207
- **S8-B**: Room 213
- **S9**: Room 215
- **S10**: Room 214

**Symposiums S1, S2, S3, S4 & S5**

- **S1**: Room 210
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- **S8-B**: Room 213
- **S9**: Room 215
- **S10**: Room 214

**Symposiums S1, S2, S3, S4 & S5**

- **S1**: Room 210
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- **S6**: Room 214
- **S7**: Room 216
- **S8**: Room 207
- **S8-B**: Room 213
- **S9**: Room 215
- **S10**: Room 214
Tuesday 9 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: J. Justin Gooding, Andrew Nelson

10:10 to 10:30
David Mendez Soares (Instituto de Física / UNICAMP, Campinas, Brazil), Wyllerson Evaristo Gomes, Andreza Barbosa Gomide, Elizabeth Fatima de Souza, Mario Alberto Tenan
Hydrophobic Interactions between Chloroform and SDSSelf-Assembled Monolayers on Gold

10:30 to 10:50 Invited
Andrew Nelson (SOMS/University of Leeds, Leeds, United Kingdom), David Adams, Andrew Brown, Steven Milne
Biological Activity of Nanoparticles Related to their Functionality

10:50 to 11:10
Thamara Laredo (Department of Chemistry, University of Guelph, Guelph, Canada), John Dutcher, Jean Bernard Fiche, Jacek Lipkowski, Slowomir Sek
Electric field driven conformational changes of Gramicidin D in a model membrane supported on a Au(111) surface

11:10 to 11:30
Coffee Break

11:30 to 12:10 Keynote
Sharon Roscoe (Department of Chemistry, Acadia University, Wolfville, Canada), Christa Brosseau, Jacek Lipkowski
Electrochemical and PMIRRAS Studies of Protein Binding to a Model Biomimetic Membrane at Au(111)

12:10 to 12:30
Dorota Matyszewska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Renata Bilewicz
Interactions of Perfluorinated Compounds with Model Phospholipid Membranes Transferred onto Gold Electrodes.

12:30 to 12:50 Invited
J. Justin Gooding (School of Chemistry, The University of New South Wales, Sydney, Australia), Callie Fairman, Joshua Ginges, J. Justin Gooding, Alicia Gui, Guillaume Le Saux, Guozhen Liu
The Modification of Electrode Surfaces with Aryl Diazonium Salts for Biosensing and Bioelectrochemistry

12:50 to 13:10
Agnieszka Wieckowska (University of Warsaw Faculty of Chemistry, Warsaw, Poland), Ron Gill, Claudio Guidotti, Itamar Willner, Ofer I. Wilner
Probing Kinase Activities by Electrochemistry, Contact Angle and Molecular Force Interactions
Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Thomas Wandlowski, Brian Hayden

10:10 to 10:50 Keynote
Kylie Vincent (Inorganic Chemistry Laboratory, University of Oxford, Oxford, United Kingdom), Fraser Armstrong, James Cracknell, Baerbel Friedrich, Gabrielle Goldet, Oliver Lenz, Marcus Ludwig, Annemarie Wait
- Studying and exploiting selective electrocatalysis of hydrogen cycling by hydrogenase enzymes: protein film voltammetry under precisely controlled gas mixtures

10:50 to 11:10 Invited
Jingdong Zhang (Department of Chemistry, Lyngby, Denmark), Jens Ulstrup
- Investigation of Electrochemical Self-assembled Monolayers at the Single-Molecule Level of Resolution

11:10 to 11:30 Coffee Break

11:30 to 11:50 Invited
Angel Cuesta (Instituto de Química Física “Rocasolano”, CSIC, Madrid, Spain)
- Cyanide-modified Pt(111) electrodes as model surfaces in electrocatalysis

11:50 to 12:10 Invited
Shi-Gang Sun (Chemistry Department, Xiamen University, Xiamen, China), Chun-Jie Fan, Chun-Hua Zhen, Qing-Wei Zheng, Zhi-You Zhou
- Active centers in electrocatalysis: structure and reactivity

12:10 to 12:30 Invited
Victor Climent (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Juan M. Feliu, Nuria Garcia-Araez, Paramaconi Rodriguez
- Thermodynamic Analysis of (Bi)sulphate Adsorption on Pt(111) Electrodes

12:30 to 12:50 Invited
Elizabeth Santos (Institut for Theoretical Chemistry, University of Ulm, Ulm, Germany), Kay Pötting, Wolfgang Schmickler
- Electrocatalysis at Nanostructured Electrodes: A Unified Model

12:50 to 13:10 Invited
Jan Rossmeisl (Center for Atomic-scale Materials Design, Department of Physics, Technical University of Denmark, DK-2800 Lyngby, Denmark, Lyngby, Denmark)
- Atomic level descriptors in fuel cell electrocatalysis

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)
Chair: Arkady Karyakin, Daniel Mandler, Danny O’Hare

10:10 to 10:30
Hasuck Kim (Seoul National University, Seoul, Korea), Yang Rae Kim, Jung Wook Oh, Hyojoow Seo
- Effective Electrogenerated Chemiluminescence by Size Control of Luminophore-doped Silica Nanoparticles

10:30 to 10:50 Invited
Guy Denuault (School of Chemistry, University of Southampton, Southampton, United Kingdom), Andy Harris, Matt Mowlem, Robin W. Pascal, Ralf D. Prien, Maciej Sosna, Richard Wilson
- Fast microelectrode sensing of oceanic dissolved oxygen
10:50 to 11:10
Klara Toth (Research Group of the Hungarian Academy of Sciences, Budapest University of Technology and Economics, Budapest, Hungary), Istvan Bitter, Robert Gyurcsanyi, Gyula Jaggerszki
Ionophore-based chemical sensors: recent advances towards micro- and nanoscale potentiometry

11:10 to 11:30
COFFEE BREAK

11:30 to 11:50
Yu Jingxian (School of Chemistry, Physics and Earth Sciences, Flinders University, Adelaide, Australia), Adrian Fisher, Yunfeng Gu, Rudolph Le Roux, Sinéad Matthews, Joe Shapter, Kamran Yunus
Integration of enzyme immobilised single-walled carbon nanotube arrays into microchannels for glucose detection

11:50 to 12:10
Kelly Adams (Analytical Chemistry, University of Göteborg, Chemistry/The Pennsylvania State University, Göteborg, Sweden), Ann-Sofie Cans, Daniel Eves, Andrew Ewing, Michael Heien, Bo Zhang
Steady-State Electrochemical Detection of Lipidic Nanotube Diameter Utilizing an Artificial Cell Model

12:10 to 12:50 Keynote
Daniel Mandler (Institute of Chemistry, Jerusalem, Israel)
Modification and Characterization of Surfaces with Scanning Electrochemical Microscopy: Applications to Electroanalytical Chemistry?

12:50 to 13:10
Ligia Maria Moretto (Department of Physical Chemistry, University Ca’ Foscari of Venice, Venice, Italy), Denis Badocco, Thiago Kohls, Paolo Pastore, Neso Sojic, Paolo Ugo
Langmuir-Blodgett Films of Nafion: Epifluorescence and Electrochemiluminescence Study

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)
Chair: Jean Lessard, Elisabet Dunach

10:10 to 10:30 Invited
Angelica Lundin (Institute für Theoretische Chemie, Universität Ulm, Ulm, Germany), Elisabet Ahlberg, Johan Eriksson, Itai Panas
Quantum Chemical Calculations of Electron Transfer Induced Conformational Changes in Copper Complexes

10:30 to 10:50 Invited
Maria Jose Medeiros (University of Minho, Braga, Portugal), X. Chaminade, E. Dunach, Ana Esteves, C.S.S. Neves, S. Olivero
Synthesis of Nitrogen Heterocycles by Radical Electrochemical Approaches in Environmentally Friendly Media

10:50 to 11:10
José Zagal (Departamento de Química de los Materiales, Facultad de Química y Biología, Universidad de Santiago de Chile, Santiago, Chile), Daniela Geraldo, Cristian Linares, Maritza Paez, Mamie Sancy
Tuning the redox properties of Co and Fe macrocyclics for the electrocatalytic oxidation of hydrazine

11:10 to 11:30
COFFEE BREAK

11:30 to 12:10 Keynote
Jim Simpson (Department of Chemistry, University of Otago, Dunedin, New Zealand)
Cobalt carbonyl clusters – from electron transfer catalysed reactivity to electroactive polymers.
12:10 to 12:30  
Jiri Ludvik (J. Heyrovsky Institute of Physical Chemistry, ASCR, Prague 8, Czech Republic)  
Studies of Intramolecular Electronic Interactions in Organic and Coordination Compounds Using Ferrocene-based Probes

12:30 to 12:50  
Ornella Smila-Castro (School of Chemistry, University of Birmingham, Birmingham, United Kingdom)  
Combined X-ray Absorption Spectroscopy and optical absorption studies of electrochemical intermediates

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)  
Chair: Maria Ariza, Evgeny Katz

10:10 to 10:50 Keynote  
Keiichi Kaneto (LSSE, Kyushu Institute of Technology, Kitakyushu, Japan)  
Training and Fatigue in Polypyrrole Artificial Muscles

10:50 to 11:10 Invited  
Estibalitz Ochoteco (New Materials Dept., CIDETEC, Donostia-San Sebastian, Spain), Hans Grande, Haritz Macicior, Jose A. Pomposo, Javier Rodriguez, Tomasz Sikora  
From Conducting Polymers to Flexible Pressure Sensors: A Success History in Organic Electronics

11:10 to 11:30  
Coffee Break

11:30 to 11:50  
Zbigniew Stojek (Department of Chemistry, University of Warsaw, Warsaw, Poland), Mikolaj Donten, Marianna Gniadek  
Polymerization at the boundary of two liquid phases as a method of synthesis of metal-polymer nanostructures

11:50 to 12:10  
Carita Kvarnstrom (Abo Akademi University, Process Chemistry Centre, Laboratory of Analytical Chemistry, Abo/Turku, Finland), Ari Ivaska, Anna Österholm, Michal Wągner  
Room temperature ionic liquids in polymer/fullerene bilayer studies

12:10 to 12:30  
Gregory Allen Sotzing (Polymer Program and Department of Chemistry, Storrs, USA)  
Electrochromic Devices and Fiber Using Conjugated Polymers

12:30 to 12:50  
María Caballero Romero (Laboratory of Electrochemistry, Intelligent Materials and Devices (CEMI), Technical University of Cartagena (UPCT), Cartagena, Murcia, Spain), Toribio Fernández Otero  
PEDOT (Poly(3,4-ethylendioxithiophene)) electrochemical oxidation occurs under chemical kinetic control.
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location: Room 212 (Floor P1)**
**Chair: Kurt Hebert, Kevin Ogle**

10:10 to 10:30
*Carmen Perez (Universidade de Vigo, Vigo, Spain), Antonio Collazo, X. Ramón Nóvoa, Beatriz Puga*

*Behaviour of rust converters over steel corrosion products*

10:30 to 10:50
*Vincent Vignal (ICB, CNRS-Université de Bourgogne, Dijon, France), Jean Baptiste Jorcin, Halina Krawiec, Nadine Pebere, Vincent Vignal*

*Comparison of local electrochemical impedance measurements derived from bi-electrode and microcapillary techniques*

10:50 to 11:10 *Invited*
*François Huet (Université Pierre et Marie Curie, Paris Cedex 05, France), Ugo Bertocci*

*Electrochemical Noise Measurements in Corrosion*

11:10 to 11:30 *Coffee Break*

11:30 to 11:50
*Christian Fenster (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Achim Walter Hassel, Michael Rohwerder*

*Impedance-Titration: A Novel Method for Understanding the Kinetics of Corrosion in Aqueous Solutions*

11:50 to 12:10
*Ana Pérez Ceballos (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oscar Mattos, Susana Modiano*

*Influence of Electrolyte Flow on Iron Hydrogen Permeation*

12:10 to 12:50 *Keynote*
*Kevin Ogle (Laboratoire Physicochimie des Surfaces, University of Paris, ENSCP, Paris, France), Jonas Baeyens, Jolanta Swiatowska, Polina Volovitch*

*The Anodic Dissolution of Alloys : Real Time Kinetics Using Atomic Emission Spectroelectrochemistry*

12:50 to 13:10
*Koji Fushimi (Graduate School of Engineering, Hokkaido University, Sapporo, Japan), Hiroki Habazaki, Shunsuke Yamamoto*

*Micro-electrochemistry with Flowing Electrolyte-type Scanning-droplet-cell*

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location: Room 214 (Floor P1)**
**Chair: Sergio Trasatti, Thomas W. Chapman**

10:10 to 10:30
*Cécile Georges (ICMPE/CNRS, Thiais, France), Stéphane Bastide, Claude Lévy-Clément*

*Silicon a New Electrode for Electrochemical Reduction of Nitrates: Comparison with Boron-doped Diamond*
10:30 to 10:50
Carlos Ponce-de-León (Electrochemical Engineering Laboratory, Energy Group of the School of Engineering Sciences, Southampton, United Kingdom), Stuart Male, Gavin Reade, Frank Walsh, Ian Whyte
A Redox Flow Reactor used for Energy Storage; Reaction Environment and Characterization

10:50 to 11:10
Claude Deslouis (Laboratoire Interfaces et Systèmes Electrochimiques UPR 15 CNRS, Ivry sur Seine, France), Michel Keddam, Olivier Lacroix, Jean-Pierre Py, Kamal Rahmouni, Béatrice Sala, Hisasi Takenouti, Stéphanie Willemin
Ionic conduction in doped perovskite AB1-x MXO3-x under vapor electrolysis for H2 production

11:10 to 11:30
Coffee Break

11:30 to 12:10 Keynote
Geoff Kelsall (Department of Chemical Engineering, Imperial College London, London, United Kingdom), Uttam Doraswami, Kang Li
Hollow Fibre Solid Oxide Fuel Cells

12:10 to 12:30 Invited
Lourdes Vazquez Gomez (IENI-CNR, Padova, Italy), Sandro Cattarin, Paolo Guerriero, Marco Musiani
Hydrogen Evolution on Porous Ni Cathodes Modified by Spontaneous Deposition of Noble Metals

12:30 to 12:50
Ichiro Yamanaka (Department of Applied Chemistry, Meguro-ku, Japan), Hanaizumi Noriko, Murayama Toru
Hydrogen Peroxide Synthesis on Heat-treated Mn-Porphyrin/Carbon Cathode by the Fuel Cell Method

12:50 to 13:10
Akimasa Tasaka (Dept. of Molecular Science and Technology, Doshisha University, Kyotanabe, Japan), Minoru Inaba, Minoru Inaba, Noriaki Masuda, Kunitaka Momota, Kenta Nakanishi, Makoto Shizuno
Electrolytic synthesis of (CF3)3N in mixed melt of (CH3)3N•mHF+x wt.%CsF•2.3HF•

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)
Chair: Nicola Alonso-Vante, Mogens Mogensen

10:10 to 10:30 Invited
Pierre Boillat (Electrochemistry Laboratory, Paul Scherrer Institut (PSI), Villigen PSI, Switzerland), Michael H. Bayer, Gabriel Frei, Denis Kramer, Eberhard H. Lehmann, Günther G. Scherer, Ingo A. Schneider, Bernhard C. Seyfang, Kazuhiko Shinohara, Yutaka Tasaki, Alexander Wokaun
Recent Progress in the Neutron Imaging of Liquid Water in Polymer Electrolyte Fuel Cells (PEFCs)

10:30 to 10:50
Heli Wang (National Renewable Energy Laboratory, Golden, USA), John A. Turner
SnO2:F Coated Stainless Steels for PEMFC Bipolar Plates

10:50 to 11:10
Maria Assunta Navarra (Department of Chemistry, University of Rome “La Sapienza”, Rome, Italy), Alessandra Fernicola, Stefania Panero, Bruno Scrosati
Low Relative Humidity Performances of a Stabilized Nafion-based Polymer Electrolyte Membrane Fuel Cell

11:10 to 11:30
Coffee Break

11:30 to 11:50
Andrei Kulikovsky (Research Centre, Juelich, Germany)
Modeling of fuel cell stacks: Approaches and perspectives
11:50 to 12:10
Elton Cairns (University of California, Dept. of Chemical Engineering, Berkeley, USA), Aurora Fojas, Patrick McGrath, Jeffrey Reimer
Adsorbate Characterization on DAFC Electrocatalysts

12:10 to 12:30
Pawel J. Kulesza (Department of Chemistry, University of Warsaw, Warsaw, Poland), Piotr J. Barczuk
Development of multifunctional catalysts for electrooxidation of methyl formate and ethanol

12:30 to 12:50
Zempachi Ogumi (Graduate School of Engineering, Kyoto University, Kyoto, Japan), Takeshi Abe, Yasutoshi Iriyama, Masao Matsuoka, Kohei Miyazaki, Naotsugu Sugimura
Non-platinum Cathode Catalysts for Alkaline Direct Ethylene Glycol Fuel Cells with Anion-Exchange Membrane

12:50 to 13:10
Romain Jamard (CEA / LITEN / DTNM / LCH, Grenoble, France), Philippe Capron, Christophe Coutanceau, Audrey Martinent, Jérémie Salomon
Solid Alkaline Membrane Fuel Cell Development

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)
Chair: Ruediger Koetz, Prof. Kwang Bum Kim

10:10 to 10:30
Chi-Chang Hu (Department of Chemical Engineering, National Tsing Hua University, Hsin-Chu, Taiwan)
Recent Advances in Oxide-Based Electrochemical Supercapacitors

10:30 to 10:50
Patrick Ruch (Paul Scherrer Institut, Villigen PSI, Switzerland), Dario Cericola, Annette Foelske, Rüdiger Kötz
In situ Studies of Single-Walled Carbon Nanotubes and Activated Carbon in Non-Aqueous Supercapacitor Electrolytes

10:50 to 11:10
Wataru Sugimoto (Shinshu university, Department of Fine Materials Engineering, Ueda, Japan), Yoshio Takasu
Electrochemical Capacitor Behavior Of Layered Na$_x$RuO$_2$$\cdot$nH$_2$O

11:10 to 11:30
Coffee Break

11:30 to 11:50
Pietro Staiti (Institute CNR-ITAE, Messina, Italy), Francesco Lufrano
Study of Manganese Oxide as a Material for Pseudocapacitor Electrode

11:50 to 12:10
Jeon-Kook Lee (Materials Science and Engineering Division, Korea Institute of Science and Technology, Seoul, Korea), Sangsig Kim, Hyung-Sup Min
Immobilized Carbon Nanofibers Supported MnOx Supercapacitors

12:10 to 12:50 Keynote
Elzbieta Frackowiak (Poznan University of Technology, Poznan, Poland)
Recent Progress in the Understanding of Electrode Reactions Occurring in Supercapacitors

12:50 to 13:10
Masahiro Toyoda (Applied Chemistry, Oita University, Oita, Japan), Taro Kinumoto, Satomi Morinaga, Tomoki Tsumura
Application to Capacitor Electrode of Exfoliated Carbon Fibers Derived From PAN-bases Carbon Fibers
Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

Location: Room 213 (Floor P1)
Chair: Patrice Simon

10:10 to 10:50 Keynote
Adam Heller (Department of Chemical Engineering, University of Texas at Austin, Austin, USA)
A Roadmap to Implanted Biofuel Cells

10:50 to 11:10
Daniel Scherson (Department of Chemistry, Case Western Reserve University, Cleveland, USA), Youjiang Chen
High Power Density Ultramicro Pseudocapacitors

11:10 to 11:30 COFFEE BREAK

11:30 to 12:10 Keynote
Josh Thomas (LRCS-UMR 6007, Université de Picardie Jules Verne, Amiens, France), K. Edstrom, C. Guéry, E. Perre, P. Poizot, P. Simon, P.L. Taberna, J-M. Tarascon
Elaboration of nano-architectured electrodes/current-collectors for 3D Li microbatteries

12:10 to 12:30 Invited
John Harb (Department of Chemical Engineering, Fulton College of Engineering and Technology, Brigham Young University, Provo, USA)
Microbatteries for Hybrid Micropower Supplies

12:30 to 13:10 Keynote
Bruce Dunn (University of California, Los Angeles, USA)
Three-Dimensional Battery Architectures for Micropower Applications

Symposium 10: General Session

Location: Room 215 (Floor P1)
Chair: M. Anderson, A. Hubin

10:50 to 11:10 Invited
Ignasi Sirés Sadornil (Université Paris-Est, Laboratoire Géomatériaux et Géologie de l’Ingénieur, IFSA, Marne-la-Vallée Cedex 2, France), Nihal Oturan, Mehmet A. Oturan

11:10 to 11:30 COFFEE BREAK

11:30 to 11:50
Cristina Saez (Department of Chemical Engineering, Faculty of Chemistry, Universidad de Castilla La Mancha, Ciudad Real, Spain), Pablo Canizares, Igor Cretescu, Silvia Curteanu, C. George Puleac, Manuel A. Rodrigo
The use of neural networks to regulate environmental batch electrolyses processes

11:50 to 12:10
Conchi Ania (Instituto Nacional del Carbón INCAR CSIC, Oviedo, Spain), François Béguin
Electro-assisted removal of bentazone from drinking water and regeneration of the adsorbent

12:10 to 12:30
Carlos Jiménez (Department of Chemical Engineering, Ciudad Real, Spain), Pablo Canizares, Fabiola Martínez, Manuel Andrés Rodrigo, Cristina Sáez
Influence of Initial pH in the Choice of Conventional or Electrochemical Coagulation Technologies
12:30 to 12:50
Karl Mayrhofer (Technical University Munich, Garching, Germany), Matthias Arenz, Gustav Wiberg
Impact of glass corrosion on the electrocatalysis on Pt electrodes in alkaline electrolyte

12:50 to 13:10
Olivier Lemaire (CEA (Atomic Energy Commission of France), Department of Hydrogen Technologies (DTH), PEFC Components Lab(LCPEM), Grenoble, France), Benoit Barthe, Alejandro Antonio Franco, Nicolas Guillet, Magalie Guinard
PEFC anode long-term CO contamination impact on intrinsic catalyst and C-support ageing mechanisms: new advances on durability understanding
Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Giuseppe Palleschi, Taek Dong Chung

15:10 to 15:50 Keynote
Pankaj Vadgama (IRC in Biomedical Materials, Queen Mary, University of London, London, United Kingdom)
A Fluidics and Filter Strategy to Controlled Biosensing

15:50 to 16:10
Florian Mansfeld (Corrosion and Environmental Effects Laboratory, Mork Family Department of Chemical Engineering and Materials Science, University of Southern California, Los Angeles, USA), Orianna Bretschger, David Harrington, Aswin Karthik Manohar, Kenneth Nealson
The Use of Electrochemical Impedance Spectroscopy (EIS) and other Electrochemical Techniques in the Evaluation of the Performance of Microbial Fuel Cells with Different Anode Designs

16:10 to 16:30 Invited
Taek Dong Chung (School of Chemistry, Seoul National University, Seoul, Korea)
Polyelectrolytic Gel Electrodes on Microfluidic Devices for Bioanalytical Applications

16:30 to 16:50
COFFEE BREAK

16:50 to 17:10 Invited
Giuseppe Palleschi (Department of Chemistry, University of Rome Tor Vergata, Rome, Italy), Aziz Amine, Fabiana Arduini, Felice Caprio, Danila Moscone, Francesco Ricci, Giulia Volpe
Applications of electrochemical probes in clinical, food and environmental analysis

17:10 to 17:30
Wolfgang Schuhmann (Analytische Chemie, Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Yvonne Ackermann, Nina Dimcheva, Kathrin Eckhard, Lo Gorton, Dmitrii Guschin, Katarzyna Karnicka, Pawel J. Kulesza, Sergey Shleev, Leonard Stoica
Design of electron-transfer pathways and localized visualization of immobilized biocatalytic activities for the development of improved biofuel cells

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Gary Attard

15:10 to 15:50 Keynote
Nenad Markovic (Materials Sciences Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, USA)
Surface science of fuel cell reactions: from model systems to real catalysts

15:50 to 16:10
Francisco J. Vidal-Iglesias (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Enrique Herrero, José Solla-Gullón
CO Monolayer Oxidation on Stepped Pt Surfaces

16:10 to 16:30
Gonzalo García (Leiden Institute of Chemistry, Leiden, Netherlands), Marc Koper
Carbon monoxide oxidation on stepped platinum single-crystal electrodes in alkaline solution
16:30 to 16:50  
**COFFEE BREAK**

16:50 to 17:10  
**Invited**

Yoshitada Morikawa (The Institute of Scientific and Industrial Research, Osaka University, Ibaraki city, Japan), Ikutaro Hamada, Tamio Ikeshoji, Yasuharu Okamoto, Minoru Otani, Osamu Sugino  
First-principles molecular dynamics simulation of H adsorption at the water/Pt(111) interface

17:10 to 17:50  
**Keynote**

Matthew Neurock (Departments of Chemical Engineering and Chemistry, University of Virginia, Charlottesville, USA)  
First-Principles Insight into the Electrocatalytic Reduction of Oxygen at Electrified Aqueous/Metal Interfaces

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**Symposium 3: Electroanalytical Chemistry at the Nanoscale**

**Location:** Room 211 (Floor P1)  
**Chair:** Marcin Opallo, Frederique Deiss

15:10 to 15:30  
**Invited**

Arkady Karyakin (Chemistry Faculty of M.V. Lomonosov Moscow State University, Moscow, Russian Federation)  
Nano-electrode arrays of the advanced electrocatalyst: towards sensor with record performance characteristics

15:30 to 15:50  
Gyorgy Inzelt (Department of Physical Chemistry, Eötvös Loránd University, Budapest, Hungary), András Róka  
The neglected first reduction-oxidation cycle in solid-state electrochemistry. The example of RuCl₃

15:50 to 16:30  
**Keynote**

Tomokazu Matsue (Graduate School of Environmental Studies, Tohoku University, Sendai, Japan), Hyun Jung Lee, Hitoshi Shiku, Tomoyuki Yasukawa  
Dielectrophoretic Manipulation of Micro/Nanoparticles and Application to Immunoassay

16:30 to 16:50  
**COFFEE BREAK**

16:50 to 17:10  
**Invited**

Fabien Miomandre (PPSM / ENS Cachan, Cachan, France), Claude Andrieux, Pierre Audebert, Cedric Boissiere, Laurent Bonneviot, Stephanie Calmettes, Clement Sanchez  
Fast scan rate electrochemistry applied to redox functionalized materials: an efficient tool to investigate the structure up to the nanometer scale

17:10 to 17:30  
Giorgio Ferrari (Dipartimento di elettronica, Politecnico di Milano, Milano, Italy), Marco Carminati, Marco Sampietro  
Potentiostat with attoFarad Resolution for Nanoscale Electrochemical Measurements

17:30 to 17:50  
Marcos Pita (Chemistry Department at Clarkson University, Potsdam, USA), Javier Jiménez, Evgeny Katz, Sergiy Minko, Roman Sheparovych  
Magneto-Assisted Generation of Nanowires on Electrode Surfaces for Biocatalytic Applications
Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)
Chair: Jim Simpson, Jiri Ludvik

15:10 to 15:30
Dionisio Posadas (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), María Inés Florit, Waldemar Marmisollé, Gabriel Ybarra
The Coupling Between Electron Transfer, Deformation and Binding during the Redox Switching of Electroactive Macromolecules. A Simple Model

15:30 to 15:50 Invited
Anne-Lucie Teillout (Laboratoire d’Electrochimie Moléculaire, Université de Paris, Diderot, Paris cedex 05, France), Cyrille Costentin, Marc Robert, Jean-Michel Savéant
Proton Coupled Electron Transfers in metal Complex. Oxidation Mechanism for \([\text{Os}^{II}(\text{bpy})_2\text{py(OH}_2\text{)}_2]^{2+}\) in water

15:50 to 16:30 Keynote
Alain Deronzier (Département de Chimie Moléculaire, CNRS UMR 5250, Université Joseph Fourier, Grenoble, France)
Ru-Mn complexes for modeling Photosystem II. An electrochemical approach

16:30 to 16:50 Coffee Break

16:50 to 17:10
Vitali Grinberg (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Michail Gratchev, Andrey Stepanov
The Electrocarboxylation of Inclusion Complexes of \(\beta\)-Cyclodextrin with \(\alpha\)-Halogenalkylaromatic Compounds

17:10 to 17:30 Invited
Angela Molina (Departamento de Química-Física, Universidad de Murcia, Murcia, Spain), Joaquin A. Ortuño, Carmen Serna, Encarnacion Torralba
Theory for the application of multipulse voltammetry to the study of ion transfer across liquid membranes

17:30 to 17:50
Ricardo Hernández (Universidad de Los Andes, Facultad de Ciencias, Dpto. de Química, Mérida, Venezuela), Monica Martín, Yris Martínez, Enrique Millán, Carlos Rojas
Studies on the \(\text{CO}_2\) reduction in presence of aqueous metal ions and metal-porphyrin, on glassy carbon electrodes

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)
Chair: Salvatore Piazza, Giovanni Zangari

15:10 to 15:50 Keynote
Kornelius Nielsch (Institute of Applied Physics, University of Hamburg, Hamburg, Germany)
Electrochemical Growth of Nanostructures in Monocultures for Nanomagnetism and Thermoelectrics

15:50 to 16:10
Di Wei (Nokia Research Centre/o Nanoscience Centre in University of Cambridge, Cambridge, United Kingdom), Jayanta K. Baral, Ari Ivaska, Ronald Oesterbackacka
Electrochemical fabrication of nonvolatile memory device based on conducting polymer and gold particles
16:10 to 16:30  
**Electrodeposition, composition and depth profile analysis of Co/Cu and Co-Ni/Cu multilayers**

16:30 to 16:50  
**COFFEE BREAK**

16:50 to 17:10  
Christelle Arnould (Laboratory of Chemistry and Electrochemistry of Surfaces, Namur, Belgium), Joseph Delhalle, Zineb Mekhalif  
**Structured thin layer of tantalum oxide on titanium plate**

17:10 to 17:30  
Paula Cojocaru (Politecnico di Milano, Milan, Italy), Pietro Luigi Cavallotti, Luca Magagnin  
**Effect of benzotriazole and 5-phenil-1H-tetrazole on dissolution of copper**

17:30 to 17:50  
Robert Dryfe (Chemistry, Manchester, United Kingdom)  
**Towards and understanding of Interfacial Deposition**

### Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location:** Room 212 (Floor P1)  
**Chair:** Kevin Ogle, Kurt Hebert

15:50 to 16:30 **Keynote**  
Kurt Hebert (Department of Chemical & Biological Engineering, Iowa State University, Ames, USA), Jerrod Houser  
**Coupled Electrical Migration and Stress-Driven Transport in Anodic Oxide Films**

16:30 to 16:50 **COFFEE BREAK**

16:50 to 17:10  
Idalina V. Aoki (Departamento de Engenharia Química, Escola Politécnica, Universidade de São Paulo, São Paulo, Brazil), Vera R. Capelossi, Patricia H. Suegama  
**Influence of Cerium (IV) added to a Tetrasulfide Bis-Silane Film on Corrosion Behaviour of Coated Galvannealed Steel.**

17:10 to 17:30  
Reinhard Stadler (DEHEMA e.V., Karl-Winnacker-Institut, Frankfurt am Main, Germany), Wolfram Fürbeth, Mariel Groeters, Kerstin Harneit, Anne Heyer, Andrzej Kuklinski, Wolfgang Sand  
**Influence of Extracellular Polymeric Substances on Cell Adhesion and Microbially Influenced Corrosion of Iron and Steel.**

17:30 to 17:50  
Manuel García Rubio (Departamento de Química-Física Aplicada, Madrid, Spain), Ignacio Manuel García, Ángeles Lavá, Pilar Ocón  
**Optimization of non-chromium containing TSA anodizing bath for Al 2xxx alloys for aerospace application**
Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location:** Room 214 (Floor P1)  
Chair: Geoff Kelsall, Masatsugu Morimitsu

15:30 to 15:50  
Leticia Ferreira (State University of Campinas (UNICAMP) Mechanical Engineering Faculty, Materials Department, Campinas, Brazil), Rodnei Bertazzoli  
**Characterization of Carbon/PTFE Gas Diffusion Electrodes for CO₂ Reduction**

15:50 to 16:30 **Keynote**  
Andrea F. Gullá (De Nora Tech, Fairport Harbor, USA), Robert J. Allen, Lajos Gancs, Sanjeev Mukerjee  
**Carbon-supported Low-Loading Rhodium Sulfide Electrocatalysts for Oxygen Depolarized Cathode Applications.**

16:30 to 16:50 **Coffee Break**

16:50 to 17:10  
Rossano Amadelli (ISOF-CNR, Ferrara, Italy), R. Amadelli, V.A. Knysh, T.V. Luk'yenko, L. Samiolo, A.B. Velichenko  
**Composite PbO₂-TiO₂ Materials: Electrosynthesis, and Physico-Chemical Properties**

17:10 to 17:30  
Babette Innocent (University of Poitiers, Department of Chemistry, LACCO UMR CNRS 6503, Poitiers, France), Françoise Hahn, Boniface Kokoh, Jean-Michel Léger, David Pasquier, François Ropital  
**Electroreduction of Carbon Dioxide at Lead Electrode**

17:30 to 17:50  
Petr Krtil (J. Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic), Zdenek Bastl, Jakub Jirkovsky, Katerina Macounova, Valery Petrykin  
**Hetero-statically doped Ru based oxides with rutile structure for selective oxidative electrocatalysis**

Symposium 8: Electrochemical Energy Conversion and Storage

**Location:** Main Theatre (Salón de Actos, Floor PB)  
Chair: Radoslav Adzic, Zempachi Ogumi

15:30 to 15:50  
Antonino Salvatore Arico (CNR-ITAE, Messina, Italy), V. Antonucci, D. La Rosa, M. Lo Faro, M. Minutoli, M. Monforte, I. Nicotera  
**Investigation of Composite Ni-Doped Perovskite Anodes for the Direct Oxidation of Propane in Solid Oxide Fuel Cells**

15:50 to 16:30 **Keynote**  
Mogens Mogensen (Fuel Cells and Solid State Chemistry Department, Roskilde, Denmark)  
**Recent progress in the development of electrodes and electrolytes for SOFC**

16:30 to 16:50 **Coffee Break**

16:50 to 17:10  
Edward Wright (Johnson Matthey Technology Centre, Reading, United Kingdom)  
**Characterization of the electrochemical response of high performance MEAs to transients in operating conditions**
Program of the 59th Annual Meeting of the International Society of Electrochemistry

17:10 to 17:30
Hai Yang (GE Global Research, Shangha, China), Wei Cai, Qunjian Huang, Jinghua Liu, Chang Wei, Rihua Xiong, Xianguo Yu
Rechargeable Fuel Cell Technology Development for Hybrids and/or Electric Vehicles

17:30 to 17:50
Alejandro Antonio Franco (CEA-Grenoble (Atomic Energy Commission of France), Departement of Hydrogen Technologies (DTH), Laboratory of PEFC Components (LCPEM), Grenoble, France), Mathias Gerard, Magalie Guinard, Sylvain Passot
Coupling of ageing mechanisms in PEFC environments: new insights from a multi-scale modelling investigation

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)
Chair: Elzbieta Frackowiak, Wataru Sugimoto

15:30 to 15:50 Invited
Stephen Lipka (University of Kentucky, Center for Applied Energy Research, Lexington, USA), Illayathambi Kunadian, Christopher Swartz
Recent Progress in the Development of Carbon Nanotubes for Energy Storage Applications

15:50 to 16:10
Jose M. Rojo (Instituto de Ciencia de Materiales de Madrid CSIC, Madrid, Spain), Jose M. Amarilla, Joaquin Ibañez, M. Angeles Lillo-Rodenas, Angel Linares-Solano, Cesar Merino, Fernando Pico, Rosa M. Rojas
RuO$_2$.xH$_2$O/Carbon Nanofibres Composites as Supercapacitor Electrodes

16:10 to 16:30
Marina Mastragostino (Dipartimento di Scienza dei Metalli, Elettrochimica e Tecniche Chimiche, University of Bologna, Bologna, Italy), Catia Arbizzani, Mariachiara Lazzari, Francesca Soavi
Safe, high-energy supercapacitors for transportation

16:30 to 16:50 Coffee Break

16:50 to 17:30 Keynote
Kwang Bum Kim (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurgical Engineering, Yonsei University, Seoul, Korea), Kwang Heon Kim, Ji Young Kim, Jingo Kim, Sang Bok Ma
Synthesis and Electrochemical Properties of Metal Oxide/Carbon Nanotube Composites for Electrochemical Capacitors Applications

17:30 to 17:50
Soo-Gil Park (Dept. of Industrial Engineering Chemistry/Chungbuk National University, Cheongju, Korea), Hong-II Kim
Electrochemical Capacitor Based on Activated Carbon Composite Electrode and its Application
Symposium 9: Micropowered Devices: Energy Harvest, Storage and Conversion

**Location: Room 213 (Floor P1)**
Chair: Debra Rolison

15:30 to 15:50 *Invited*
Luke Milner (Georgia Tech Analog, Power, & Energy Research, Atlanta, USA), Gabriel Rincón-Mora, Erick Torres
 *Mixing Sourcing Technologies to Extend the Operational Life of Ultra-Portable Micro-Scale Electronics*

15:50 to 16:10 *Invited*
Glenn Amatucci (Rutgers, the State University of New Jersey, North Brunswick, USA), Fadwa Badway, Nicholas Hudak, Kimberly Scott, Larry Weinstein, William Yourey
 *Micropower Systems and the Electrochemically Self Formed Micro Battery*

16:10 to 16:30 *Invited*
Yang Shao-Horn (MIT, Cambridge, USA), G.J. la O’
 *Probing Oxygen Reduction Reaction Kinetics Using Heterostructured Oxide Model Electrodes*

16:30 to 16:50 COFFEE BREAK

16:50 to 17:30 *Keynote*
Peter H.L. Notten (Eindhoven University of Technology, Philips Research Laboratories, Eindhoven, Netherlands)
 *A challenging route towards 3D-integrated all-solid-state batteries*

17:30 to 17:50
David Harrington (Chemistry Department, University of Victoria, Victoria, Canada), Ned Djilali, Erik Kjeang, David Sinton
 *Microfluidic Fuel Cells*

17:50 to 18:10
Yoko Kikuchi (Bioengineering Department, Imperial College London, London, United Kingdom), Danny O’Hare
 *Miniaturized glucose-oxygen biofuel cells*

Symposium 10: General Session

**Location: Room 215 (Floor P1)**
Chair: M. E. Vela, E. Vieil

15:50 to 16:10 *Invited*
Zdenek Samec (J. Heyrovsky Institute of Physical Chemistry of ASCR, Prague 8, Czech Republic), Jan Langmaier, Antonín Trojánek, Stanislav Zališ
 *Mechanism of Electrocatalysis of Oxygen Reduction at a Polarized Liquid-Liquid Interface by Co(II) Porphyrins*

16:10 to 16:30
Xiaodong Wang (LISE- UPR15 du CNRS, Paris, France), Marie-Claude Bernard, Claude Deslouis, Philippe Rousseau
 *Dynamic Coupling of Electrochemical Impedance Spectroscopy (EIS) with Raman Spectroscopy for Characterization of a Conducting Polymer Film*

16:30 to 16:50 COFFEE BREAK
16:50 to 17:10
Maciej Chotkowski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Zbigniew Rogulski
In situ spectroscopic investigations of electrochemical behavior of perrhenate ions in acidic media

17:10 to 17:30
Francisco Strixino (Universidade de São Paulo, Instituto de Física de São Carlos, São Carlos, Brazil), Francisco Guimarães
Zirconium oxide anodic films: optical and structural properties
### Wednesday 10 September 2008

#### Posters Set-up

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<td>10:30-10:50</td>
<td>S2 (Room 210)</td>
<td>H.A. Heering, P.F. Brevet, R. Baron, D.L. Raffa, Q. de Radiguès, Y.G. Guo, G. Tremiliosi-Filho</td>
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<td>11:10-11:30</td>
<td>S3 (Room 209)</td>
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<td>12:10-12:30</td>
<td>S6 (Room 207)</td>
<td>D. Murgida, K. Wandelt, E. Pastor, T. McCramac, R. Nichols, H. Habazaki, M. Macedo, P. Guillaume, R. Kostecki, E. Herrero, A. Boika</td>
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<td>14:30-15:30</td>
<td>Lunch</td>
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<td>15:30-15:50</td>
<td>Poster session / coffee</td>
<td><strong>Symposiums S6, S7, S8, S9 &amp; S10</strong></td>
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<td>15:50-16:10</td>
<td>Departure to excursions</td>
<td><strong>Symposiums S6, S7, S8, S9 &amp; S10</strong></td>
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**Wednesday 10 September 2008 - AM**

**Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells**

*Salón de Grados (Floor PA)*
Chair: Wolfgang Schuhmann, Steffi Krause

10:10 to 10:50 *Keynote*
Fraser Armstrong (Department of Chemistry, University of Oxford, Oxford, United Kingdom)
The Electrochemistry of Enzymes that Catalyze Oxidation and Production of Hydrogen

10:50 to 11:10
Juan Manuel Artés (Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain), Ismael Díez-Pérez, Pau Gorostiza, Jordi Hernández-Borrell, Javier Hoyo, Fausto Sanz
Direct Measurement of the Tunnelling Barrier of Azurin by Electrochemical Tunnelling Spectroscopy

11:10 to 11:30 *COFFEE BREAK*

11:30 to 11:50 *Invited*
Gunther Wittstock (Carl von Ossietzky University of Oldenburg, CIS, Center of Interface Science, Institute of Pure and Applied Chemistry and Institute of Chemistry and Biology of the Marine Environment, Oldenburg, Germany), M. Burchardt, W. Nogala, M. Opallo, J. Rogalski, Y. Shen, M. Träuble, Gunther Wittstock
SECM investigation of oxygen reduction with enzyme and noble metal catalysts

11:50 to 12:10
Jose M. Abad (Centre for Nanoscale Science, Chemistry Department, University of Liverpool, Liverpool, United Kingdom), David J. Schiffrin
Direct Electron Transfer to Redox Proteins Across Nanoparticles

12:10 to 12:30 *Invited*
Daniel Murgida (Departamento de Química Inorgánica, Analítica y Química Física, INQUIMAE-CONICET, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina)
Direct Observation of Protein Dynamics at Biomimetic Electrochemical Interfaces

12:30 to 12:50
Qijin Chi (Department of Chemistry, Technical University of Denmark, Kgs. Lyngby, Denmark)
Approaches to Both Intramolecular and Interfacial Electron Transfer of a Two Redox-centered Protein

12:50 to 13:10 *Invited*
Steffi Krause (School of Engineering and Materials Science, Queen Mary University of London, London, United Kingdom), Jacqueline Stair, Michael Watkinson, Yinglin Zhou
Generic sensor for the detection of proteases

**Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods**

*Location: Room 210 (Floor P1)*
Chair: David Fermin

10:10 to 10:30
Ian Burgess (Department of Chemistry, Saskatoon, Canada), Burke Barlow, Brook Danger, Scott Rosendahl
Acid – Base Chemistry at Electrified Interfaces
10:30 to 10:50 Invited
Hendrik A. Heering (Leiden University, Leiden Institute of Chemistry, Leiden, Netherlands), Bernd Ludwig, Oliver Matthias Richter, Frank G. M. Wiertz
Electrocatalytic oxygen reduction by cytochrome c oxidase

10:50 to 11:10 Invited
Jacek Lipkowski (Department of Chemistry, University of Guelph, Guelph, Canada), Xiaomin Bin, Christa Brosseau, Ian Burgess, Maohui Chen, Nuria Garcia-Araez, Ming Li, Slawomir Sek, Grzegorz Szymanski, Shimin Xu, Izabella Zawisza
Building a Biomimetic Membrane at an Electrode Surface

11:10 to 11:30 Coffee Break

11:30 to 12:10 Keynote
Jens Ulstrup (Department of Chemistry, Technical University of Denmark, Lyngby, Denmark), Alexander M. Kuznetsov, Igor G. Medvedev, Tim Albrecht
Conductivity and multiple electronic transitions of redox molecules and molecular scale gold nanoparticles in electrochemical in situ STM

12:10 to 12:30
Klaus Wandelt (University of Bonn, Institute of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Nguyen Thi Minh Hai
Porphyrin layers on anion-modified copper surfaces: Structure and reactivity

12:30 to 12:50
Thomas Doneux (Université Libre de Bruxelles, Brussels, Belgium), Claudine Buess-Herman, Richard J. Nichols
Phase Transitions in the Adlayers of Adipic Acid on Au(111)

12:50 to 13:30 Keynote
Andrzej Wieckowski (Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, USA), Rachel Behrens, Dana D. Dlott, Alexei Lagutchev
Update on the Use of BB-SFG in Electrochemical Research

Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 213 (Floor P1)
Chair: Juergen Behm

10:10 to 10:30
Michael Cormack (Department of Physics, University of Liverpool, Liverpool, United Kingdom), Alexander Brownrigg, Christopher Lucas, Nenad Markovic, Vojislav Stamenkovic, Dusan Strencnik, Paul Thompson
Temperature Effects on the Atomic Structure at the Metal-Electrolyte Interface

10:30 to 10:50
Pierre-Francois Brevet (Laboratoire de Spectrometrie Ionique et Moleculaire, UMR CNRS 5579, Université Claude Bernard Lyon 1, Villeurbanne, France), Guillaume Bachelier, Emmanuel Benichou, Leonard E.A. Berlouis, Yara El Harfouch, Kirstin Forsyth, Christian Jonin, Isabelle Russier-Antoine
Nonlinear Optical Response from Small Silver Metallic Structures at the Electrochemical Interface

10:50 to 11:10
Ilia Valov (Institute of Physical Chemistry, Justus-Liebig University, Giessen, Germany), Alexej Barinov, Pavel Dudin, Luca Gregoratti, Juergen Janek, Bjoern Luerssen, Eva Mutoro
Electrochemical Activation of Molecular Nitrogen. An in-situ XPS Study
11:10 to 11:30
Coffee Break

11:30 to 11:50
Chrystelle Lebouin (LEPMIUMR 5631 - CNRS INPG UJF, Saint Martin d’Heres, France), Maurizio De Santis, Frederic Maillard, Eric SIBERT, Yvonne Soldo-Olivier
H electroinsertion in Pd/Pt(111) nanofilms: in situ SXRD

11:50 to 12:10
Mathias Schnippering (University of Warwick, Department of Chemistry, Coventry, United Kingdom), Stuart Mackenzie, Mikhail Mazurenka, Hayley Morley, Patrick Unwin, Meiqin Zhang
Electron Transfer Kinetics at Metal Nanoparticles Monitored by Evanescent Wave Cavity Ringdown Spectroscopy

12:10 to 12:30 Invited
Elena Pastor (Dpto. Química Física, Universidad de La Laguna, La Laguna, Spain), Francisco Alcaide, Laura Calvillo, García Gonzalo, María Jesús Lázaro, Jacob Quintana, José Luis Rodríguez
Development of Nanostructured Materials for PEMFC

12:30 to 12:50
Carmen Munuera (Instituto de Ciencia de Materiales de Barcelona, Consejo Superior de Investigaciones Científicas (CSIC), Barcelona, Spain), Carmen Ocal
Nanoscaled Electrical Properties of SAM-based Molecular Junctions Investigated by Conductive Scanning Force Microscopy

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)
Chair: Damian Arrigan, Guy Denuault

10:10 to 10:30 Invited
John Barron (Chemistry Department, University of Leicester, Leicester, United Kingdom), Karl Ryder, Emma Smith
A Time-Resolved in situ AFM-EQCM Study of the Nucleation and Growth Mechanism of Zinc from a Novel Ionic Liquid

10:30 to 10:50
Ronan Baron (University of Oxford, Oxford, United Kingdom), Fallyn W. Campbell, Richard G. Compton, Ian Streeter
Voltammetry at Nanoparticle and Microparticle Arrays

10:50 to 11:10
Li Niu (State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China), Dongxue Han, Yanfei Shen, Zhijuan Wáng, Yuaunjian Zhang
Polyelectrolyte-functionalized Ionic Liquid Material in Electroanalytical Chemistry

11:10 to 11:30
Coffee Break

11:30 to 11:50
Kiyoko Takamura (School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan), Ikumi Kikuchi, Akira Kotani, Fumiyo Kusu
Performance Characteristics of a Portable Amperometric Acid Sensor for Determining Total Acid of Fruit Juices

11:50 to 12:10
Agustin Costa-Garcia (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Laura Garcia-Medina, María Begoña Gonzalez-Garcia, David Hernandez-Santos, Graciela Martinez-Paredes
One-step PSA Imunosensor Based on Gold Nanostructured Screen-Printed Carbon Electrodes
12:10 to 12:30
Timothy McCormac (ITT Dublin, Dublin, Ireland), Aidan Fagan Murphy, Monika Goral, Shahzad Imar, Monika Zynek
Surface Manipulation of Polyoxometallates

12:30 to 12:50
Oliver Henry (Department of Chemical Engineering, Universitat Rovira i Virgili, Tarragona, Spain), Olivier Henry, Tesfaye Refera Soreta, Jörg Strutwolf
Selective Reductive Desorption of Self-assembled Monolayers of Alkanethiols from a Mixed Metal Substrate

12:50 to 13:10
Pawel Krysinski (University of Warsaw, Department of Chemistry, Warsaw, Poland), Magdalena Brzozowska, Pawel Majewski
Synthesis, surface modifications and size-sorting of mixed, nickel-zinc ferrite colloidal magnetic nanoparticles

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

Location: Room 209 (Floor P1)
Chair: Alain Deronzier, Angela Molina

10:10 to 10:30 Invited
Tim Albrecht (Imperial College London, London, United Kingdom), Jens Ulstrup
Redox-mediated charge transport and electrochemistry on single molecules

10:30 to 10:50 Invited
Diego L. Raffa (Institut für Experimentelle und Angewandte Physik - Christian Albrechts Universität Kiel, Kiel, Germany), Belinda Baisch, Rainer Herges, Ulrich Jung, Jens Kubitschke, Olaf Magnussen
Structure and photoswitching of self-assembled layers of Azo-triazatriangulenium on Au(111) surfaces

10:50 to 11:10
Li-Jun Wan (Institute of Chemistry, Chinese Academy of Sciences (CAS), Beijing, China)
Surface Nanostructures with Ligand and Their Metal-Coordinated Complexes: STM Investigation in Solution

11:10 to 11:30 Coffee Break

11:30 to 11:50
Claude Gabrielli (LISE - CNRS, Paris, France), Hubert Perrot, Loan To Thi Kim
Investigation of Redox Switching of Polyaniline in Acidic Media by ac-Electrogravimetry

11:50 to 12:10
Kaido Tammeveski (Institute of Chemistry, University of Tartu, Tartu, Estonia), Nadezda Alexeyeva, Marko Kullapere, Margus Marandi, Leonard Matisen, Väino Sammelselg
Electrochemical behaviour of aryl-modified Au electrodes

12:10 to 12:50 Keynote
Richard Nichols (The Department of Chemistry, Room 140, The University of Liverpool, Liverpool, UK)
In-situ Single Molecule Conductance

12:50 to 13:10
Claire Fave (ITODYS CNRS UMR 7086, University of Paris 7, Paris, France), Vincent Noel, Jalal Ghilane, Jean Christophe Lacroix, Hyacinthe Randriahazaka, Gaelle Trippé
Tunable electrochemical switchers based on ultra-thin organic films
Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 007 (Floor PB)
**Chair:** John Stickney, Claude Levy-Clement

10:10 to 10:50 **Keynote**
Sachiko Ono (Department of Applied Chemistry, Kogakuin University, Tokyo, Japan), Hidetaka Asoh
*Patternning of Silicon by Metal-Assisted Chemical Etching/Electrodeposition Through Self-Organized Micro-Spheres*

10:50 to 11:10
Alexander Bittner (MPI Sol. State Res. and nano GUNE, Stuttgart, Germany and Donostia, Spain), Nadja Amsharov, Sinan Balci, Gabriel Baralia, Holger Jeske, Anan Kadri, Klaus Kern, Carl Krill, Chenchen Ma, Anna Mueller, Kei Noda, Christina Wege, Zhenyu Wu
*The Tobacco mosaic virus as template for depositions*

11:10 to 11:30 **Coffe Break**

11:30 to 11:50 **Invited**
Giovanni Zangari (University of Virginia, Charlottesville, USA), Hillary Bart-Smith, Matthew Begley, Robert Kelly, Michael Reed, Eric Rouya, Marco Villa
*Nanoporous metal structures by electrochemical dealloying*

11:50 to 12:10
Achim Walter Hassel (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Srdjan Milenkovic, Andrew Smith
*Nanowires and Nanowire Arrays by an Electrochemical Structuring of Directionally Solidified Eutectics*

12:10 to 12:30
Hiroki Habazaki (Graduate School of Engineering, Hokkaido University, Sapporo, Japan), Y. Aoki, K. Fushimi, H. Mayama, T. Minami, Y. Oikawa, K. Tsuji
*Formation and Wettability of Microcone-Type Porous Anodic Films on Niobium*

12:30 to 12:50
Michitaka Ohtaki (Department of Molecular and Material Sciences, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Fukuoka, Japan), Hiroshi Ikeda
*Molecular Assembly Templated Electrochemical Synthesis of Oxide Nano-Superlattice Thin Films and Their Electronic Properties*

12:50 to 13:10
Shunsuke Yagi (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Kazuo Hosoya, Tetsu Ichitsubo, Yorishige Matsuba, Eiichiro Matsubara, Seijiro Matsubara, Hidetaka Nakanishi
*Formation of Cu Nanoparticles from Aqueous CuO Suspension by Liquid-Phase Reduction*
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location:** Room 212 (Floor P1)  
**Chair:** Kemal Nisancioglu, Ramon Novoa

10:10 to 10:50 *Keynote*

X. Ramón Nóvoa (ETSEI/ Universidade de Vigo, Vigo, Spain), B. Díaz, L. Freire, M. C. Pérez  
**Electrochemical Behaviour of High Strength Steel Wires in Presence of Chlorides**

10:50 to 11:10  
Mercedes Sanchez (Institute of Construction Science Eduardo Torroja, Madrid, Spain), M. Cruz Alonso, Vicente Francisco, Hisasi Takenouti  
**Mechanistic Model to Simulate the Passivation Process of Steel Rebars in Alkaline Media**

11:10 to 11:30  
**COFFEE BREAK**

11:30 to 11:50  
Maria Elena Vela (INIFTA. Depto de Química, La Plata, Argentina), Guillermo Benitez, Luis Dick, Roberto Salvarezza, Cristina Weber  
**Electrochemical Behavior of Carbon Steel in Alkanethiol Containing Solutions**

11:50 to 12:10 *Invited*

F. Javier Recio (IETcc CSIC, Madrid, Spain)  
**High Strength Stainless Steel Stability in High Alkaline-Chloride Media. Electrochemical Potential Noise Study**

12:10 to 12:30  
Michelle Macedo (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oswaldo Barcia, Oscar Mattos, Juliana Mendes, Edilson Silva  
**Inhibitive Effect of Imidazole Derivatives on Iron Corrosion in 0.1M NaCl and 1 M HCl Medium.**

12:30 to 12:50  
Florian Feil (Karl-Winnacker-Institut, DECHEMA e.V., Frankfurt am Main, Germany), Wolfram Fürbeth  
**The Influence of Nanoparticulate Inorganic Coatings on the Corrosion Performance of Magnesium Alloys**

12:50 to 13:10 *Invited*

C. Andrade (Institute of Construction Sciences- CSIC-Madrid-Spain, Madrid, Spain), M. Castellote, I. Martinez  
**Advances in the Application of Electrochemistry to Concrete and Polarization of the Reinforcement by a Contactless Method**

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location:** Room 214 (Floor P1)  
**Chair:** André Savall, Ann Cornell

10:10 to 10:30  
Hariklia Deligianni (IBM/T.J. Watson Research Center, Yorktown Heights, USA), Brett Baker-O’Neal, Veeraraghavan Basker, Qiang Huang, James Kelly, Keith Kwietniak, Lubomyr Romankiw, Xiaoyan Shao  
**Electrodeposition at the Nanoscale**
10:30 to 10:50
Quentin de Radiguès (Division of Materials and Process Engineering, Université Catholique de Louvain, Louvain-la-Neuve, Belgium), Joris Proost, Ronny Santoro
Kinetics of metal electro-recovery on reticulated vitreous carbon electrodes in a flow-through type reactor

10:50 to 11:10
Kuniaki Murase (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Takashi Ichii, Akira Ito, Hiroyuki Sugimura
Cu-Sn Metallization of Polymer through Reduction-Diffusion Method Using Ionic Liquid Baths at Medium-Low Temperatures

11:10 to 11:30
Coffee Break

11:30 to 12:10 Keynote
Pietro Luigi Cavallotti (Dip. Chimica, Materiali e Ing. Chimica G. Natta, Milano, Italy)
The Future of Nano Electrolytic Deposition

12:10 to 12:30
Pascaline Guillaume (Laboratoire de Chimie du Solide Minéral, Electrochimie des Matériaux, Metz, France), Clotilde Boulanger, François Lapicque
Electrochemical way for zinc recovery from industrial solid waste

12:30 to 12:50
Jomar Thonstad (Dept. Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway)
Electrowinning of Iron from Sulphate Solutions

12:50 to 13:10
Alejandro Recéndiz (Departamento de Química, Universidad Autónoma Metropolitana-Iztapalapa, México, D.F., Mexico), Ricardo Benavides, Adolfo Fuentes, Ignacio González, José Luis Nava
Formation and Electrochemical Behavior of MnO₂ Anodically Formed During the Zinc Electrowinning Process

13:10 to 13:30
Sophie Legeai-Roche (Laboratoire de Chimie du Solide Minéral, Electrochimie des Matériaux, Nancy Université, Université Paul Verlaine-Metz, CNRS, Metz Cedex 3, France), Clotilde Boulanger, Sébastien Diliberto, Micheline Draye, Julien Estager, Nicolas Stein
Lanthanum Electrodeposition in Air and Water Stable Room-Temperature Ionic Liquids

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)
Chair: Hector Abruna, Pascal Maire

10:10 to 10:30
Priscilla Reale (Dept. of Chemistry, Sapienza University, Rome, Italy), Alessandra Fernicola, Bruno Scrosati, Margret Wohlfahrt-Mehrens
Application of Ionic Liquids as Electrolytes for Safe and Sustainable Lithium Ion Batteries

10:30 to 10:50
Yu-Guo Guo (Institute of Chemistry, Chinese Academy of Sciences (CAS), Beijing, China), Li-Jun Wan
Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries

10:50 to 11:10
Thomas Richardson (Lawrence Berkeley National Laboratory, Berkeley, USA), Guoying Chen, Ki-Joon Jeon
Li-Mg Alloy Anodes for Lithium Batteries

11:10 to 11:30
Coffee Break
11:30 to 11:50
Bostjan Erjavec (Laboratory for Materials Electrochemistry, National Institute of Chemistry Slovenia, Ljubljana, Slovenia), Robert Dominko, Miran Gaberscek, Janko Jamnik, Stanislav Pejovnik, Saso Sturm, Polona Umek
Tailored composites for high power batteries

11:50 to 12:10
Gregorio F. Ortiz (Laboratoire Chimie Provence UMR 6264, Marseille, France), Thierry Djenizian, Ilie Hanzu, Philippe Knauth, Pedro Lavela, Gregorio F. Ortiz, José L. Tirado
TiO$_2$ nanotubes manufactured by anodization of Ti film on Si and Si-free substrates for Li-ion batteries

12:10 to 12:50 Keynote
Robert Kostecki (Lawrence Berkeley National Laboratory, Berkeley, USA), Laurence Hardwick, Marek Marcinek
In situ Characterization of Electrode Materials in Li-ion Battery Systems

Symposium 8b: Electrochemical Energy Conversion and Storage

**Location: Room 107 (Floor E1)**
Chair: Ernesto Rafael Gonzalez, Dr. Andrei Kulikovsky

10:10 to 10:30
Claude Lamy (Laboratory of Electrocatalysis, LACCO, UMR 6503, CNRS-Université de Poitiers, Département Chimie, Poitiers, France), Christophe Coutanceau, Laurent Demarconnay, Jean-Michel Léger
The electrocatalytic oxidation of alcohols in a Solid Alkaline Membrane Fuel Cell (SAMFC)

10:30 to 10:50
Germano Tremiliosi-Filho (Instituto de Quimica de Sao Carlos, Universidade de Sao Paulo, Sao Carlos, SP, Brazil), Adalgisia Rodrigues Andrade, Boniface Kokoh, Jean-Michel Leger, Paulo Olivi, Josimar Ribeiro
Synergetic Effect of Sn and W on Pt-based Catalysts for Ethanol Oxidation

10:50 to 11:10
José Solla-Gullón (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Emmanuel Garnier, Ana López-Cudero, Francisco J. Vidal-Iglesias
Methanol and formic acid electrooxidation on shape-controlled Pt nanoparticles

11:10 to 11:30
Coffee Break

11:30 to 11:50
Jean-Francois Drillet (Dechema e. V., Frankfurt a. M., Germany), Ursula Dettlaff, Roland Dittmeyer, Klaus Jüttner, Siegmar Roth
Preparation and Characterisation of Single-Wall Carbon Nanotubes for Catalyst Support in the DMFC Anode

11:50 to 12:10
Zenonas Jusys (Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany), Rolf Jürgen Behm, Malgorzata Chojak
Methanol Oxidation over Pt/C Catalyst at Elevated Temperatures and Pressures: An On-line Electrochemical Mass Spectrometry Study

12:10 to 12:30
Enrique Herrero (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Berna, Vinicius Del Colle, Juan M. Feliu, Germano Tremiliosi-Filho
Ethanol Electrooxidation onto Stepped Surfaces Decorated by Ru and Sn.
12:30 to 12:50
Eduardo Gonçalves Ciapina (Institute of Chemistry of Sao Carlos, University of Sao Paulo, São Carlos, Brazil), Ernesto Raphael González
Electro-oxidation of a CO monolayer on unsupported Pt agglomerates

12:50 to 13:10
Patricia Hernandez Fernandez (Departamento de Quimica Fisica Aplicada C-II, Madrid, Spain), Hector D Abrúna, Jose Luis G Fierro, Patricia Hernandez Fernandez, Manuel Montiel, Pilar Ocon, Sergio Rojas, Hongsei Wang
Catalytic activity and methanol tolerance of PtRuCo/C in the oxygen reduction reaction

Symposium 10: General Session

Location: Room 215 (Floor P1)
Chair: G. Lang, I. Vandendael

10:50 to 11:10 Invited
Andrzej Lasia (Departement de Chimie, Universite de Sherbrooke, Canada), Hugues Duncan, Manuel Martin
Properties of Thin Pd Layers Towards Hydrogen Sorption

11:10 to 11:30
Coffee Break

11:30 to 11:50
Jekaterina Kuleshova (School of Chemistry, Southampton, United Kingdom), Joanne Elliott
Hydrodynamic modulated voltammetry using a pulsating jet system

11:50 to 12:10
Andrei Ionut Mardare (Max-Planck Institut fuer Eisenforschung, Duesseldorf, Germany)
Combinatorial microelectrochemistry on binary Fe, Al, Hf and Ti alloys using an automated scanning droplet cell

12:10 to 12:30
Aliaksei Boika (Department of Chemistry, University of Saskatchewan, Saskatoon, Canada), Andrzej S. Baranski
Applications of Hot Microelectrodes

12:30 to 12:50
Kirsu Yliniemi (Helsinki University of Technology, TKK, Finland), Violeta Barranco, Maija Huuppola, Kyösti Kontturi, Marjatta Vahvaselkä
Different Approaches for Surface Modifications: Inhibition of Copper Corrosion and Surfaces with Strongly Adhering Ag Nanoparticles

12:50 to 13:10
Tabrisur Rahman Khan (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany)
Electrolytic co-deposition of SiO$_2$ nanoparticles with zinc for improvement of corrosion protection
Thursday 11 September 2008

9:00-10:00

Plenary lecture: Professor Richard G. Compton - Main Theatre (Salón de Actos)

10:10-10:30
J. Rishpon
M. Arenz
C. Kranz
C. Barus
M.J. Ariza
K. Nisancioglu
Y. Dzyazko
H. Abruna
M. Bron

10:30-10:50
L. Gorton
L. Kibler
T. Dolidze
J. Baron
I. Alonso

10:50-11:10
C. Léger
N. García-Arenz
G. Rivas
S. Finger
E. Katz
W. Kuttner
A.V. Benedetti
P. Millet
P. Novak
L. Zhuang
S.R. Waldvogel

11:10-11:30
Coffee Break

11:30-11:50
G. Wilson
M. Osawa
G. Nöll
C. Krishnan
H. Randriamahazaka
J. Charnier
N. Fink
T. Chapman
M. Alias
N. Alomo-Vante
E. Petrucci

11:50-12:10
L. Gorton
L. Kibler
J. Baron
I. Alonso

12:10-13:10
Lunch

14:10-15:10
Poster session / coffee

Symposiums S6, S7, S8, S9 & S10

15:10-15:30
A. Merkoci
R.W. Fawcett
A. Kycia
S.K. Palathedath
M. Vorotynsev
C. Fournier
I. Serebrennikova
G. Schiller
D. Tonti
U. Stimming
D. Centonze

15:30-15:50
J. Labuda
A.G. Crevillén
R. Hillman
K. Uosaki
R.M. Torresi
R. Min-sier
Sang Bok Ma
N. Toshima
Z.M. Redha

15:50-16:10
E. Paleck
T. Pajkossy
F. Deiss
C. Comellas
S. Piazza
V. Tsakova
V. Zamlyny
A. Scalfidi
Z. Wronski
L. Radev
G. Snook

16:10-16:30
M. Pojta
J. Mostany
G. Marraza
J.M. Montero
C. Debiemme-C.
J.B. Jocin
P. Maire
O. Khazova

16:30-16:50
Coffee Break

16:50-17:10
M. Adachi
W. Schmickler
A. Downard
J. Chen
H. Tsuchiya
K. Wessels
T. Breugelmans
A.M. Pokaro
K. Naoi
C. Argúnisis
E. Vicil

17:10-17:30
J. Iniesta
P. Baker
F. Montilla
Y. Kim
A. Castela
K. Groenen S.
J.F. Martin
S. Pronkin
T. Takamura

17:30-17:50
M. Hromadová
C. Visy
J. Kunze

17:50-18:50
Poster session

Symposiums S6, S7, S8, S9 & S10

21:00
GALA DINNER
Thursday 11 September 2008 - AM

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Lo Gorton, Judith Rishpon

10:10 to 10:30 Invited
Judith Rishpon (Molecular Microbiology and Biotechnology, Tel-Aviv, Israel)
Highly Sensitive Nanoparticles Modified Electrodes for Fast Diagnostics

10:30 to 10:50
Lo Gorton (Department of Biochemistry, Lund University, Lund, Sweden)
Wiring of Living Bacterial Cells with Different Electron Transport Mediators

10:50 to 11:10 Invited
Christophe Léger (Laboratory of Bioenergetics and Engineering of Proteins, Marseille Cedex 20, France), Patrick Bertrand, Bénédicte Burlat, Sébastien Dementin, Juan Fontecilla-Camps, Bruno Guigliarelli, Fanny Leroux, Marc Rousset, Anne Volbeda
Inhibition of Hydrogenases by Oxygen: Electrochemical Studies of Mutants Designed to Increase the Enzyme’s Resistance by Blocking Oxygen Access to the Active Site

11:10 to 11:30
COFFEE BREAK

11:30 to 12:10 Keynote
George Wilson (Department of Chemistry, Lawrence, USA), Daniel Aillon, David Johnson, Erik Naylor
Probing Energy Utilization in the Rat Brain Using Biosensors

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Antonio Rodes

10:10 to 10:30 Invited
Matthias Arenz (Physical Chemistry, Technical University Munich, Garching, Germany), Sean Ashton, Karl J. J. Mayrhofer, Josef Meier, Gustav Wiberg
Durability investigations of high surface area catalysts for polymer electrolyte fuel cells

10:30 to 10:50
Ludwig Kibler (Institut für Elektrochemie, Universität Ulm, Ulm, Germany), Yvonne Pluntke
Hydrogen evolution at PdAu(111) surface alloys

10:50 to 11:10
Nuria Garcia-Araez (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Victor Climent, Juan Feliu
Water reorientation on adatom-modified Pt(111) from nanosecond laser pulsed experiments

11:10 to 11:30
COFFEE BREAK

10:30 to 12:10 Keynote
Masatoshi Osawa (Catalysis Research Center, Hokkaido University, Sapporo, Japan), Kazuhiro Mogami, Gabor Samjeske, Minoru Tshushima
Structure of Water at the Pt/acid Interface: An Infrared Study
Symposium 3: Electroanalytical Chemistry at the Nanoscale

**Location:** Room 211 (Floor P1)  
**Chair:** Tomokazu Matsue, Ligia Maria Moretto

10:10 to 10:50 **Keynote**  
Christine Kranz (School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, USA)  
Electrochemical Imaging at the Nanoscale – Challenges and Opportunities

10:50 to 11:10 **Invited**  
Gustavo Rivas (Departamento de Ciencias Químicas de Fisicoquímica, Facultad, Córdoba, Argentina), Esperanza Bermejo, Soledad Bollo, Manuel Chicharro, Nancy Ferreyra, Yamile Jalit, Guillermina Luque, Marcela Rodríguez, María Rubianes, Alberto Sánchez, Antonio Zapardiel  
Glassy carbon electrodes modified with carbon nanotubes dispersed in polyethylenimine and polylysine: Analytical applications

11:10 to 11:30 **Coffee Break**

11:30 to 11:50 **Invited**  
Gilbert Nöll (Analytical Chemistry, Lund, Sweden), Bernhard Dick, Martin Grininger, Dieter Oesterhelt, Eva-Kathrin Sinner, Sibylle Trawöger, Madlene von Sanden-Flohe  
Electrochemical and Photochemical Switching of the Flavoprotein Dodecin and Applications in Nanotechnology

11:50 to 12:10 Outi Toikkanen (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Espoo, Finland), Sanna Carlsson, Bernadette Quinn  
Synthesis and Stability of Monolayer Protected Au38 Clusters

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

**Location:** Room 209 (Floor P1)  
**Chair:** Francisco Montilla, Richard Nichols

10:10 to 10:30  
Carole Barus (Laboratoire de Génie Chimique, Toulouse Cedex 9, France), Maurice Comtat, Pierre Gros, Laure Latapie  
Use of cyclic voltammetry to investigate chemical reaction between antioxidant molecules

10:30 to 10:50 **Invited**  
Tina Dolidze (Institute of Molecular Biology and Biophysics, Tbilisi, Georgia), Dimitri Khoshtariya, Sandra Rondinini, Rudi Vaneldik, David Waldeck  
Dynamic Effect of “Protein Friction” as Revealed by High Pressure and Mixed-SAM Bioelectrochemical Strategies

10:50 to 11:10  
Sebastian Finger (Bioelectrochemistry Laboratory, Chemical and Pharmaceutical Sci. Faculty, University of Chile, Santiago, Chile)  
Chiral Modified Gold Electrodes

11:10 to 11:30 **Coffee Break**

11:30 to 12:10 **Keynote**  
Chirakkal Krishnan (Science Department, Bohemia, USA), Benjamin Chu, Merrill Garnett  
Spatio-temporal oscillations in biological molecules: 5. N-acetyl-L-cysteine-molybdate
Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 007 (Floor PB)
Chair: Sachiko Ono, Kohei Uosaki

10:10 to 10:50 **Keynote**
Maria J. Ariza (Applied Physics Department, University of Almeria, Almeria, Spain)
Conducting Polymers Applied to Develop Membranes with Controllable Ionic Selectivity

10:50 to 11:10
Evgeny Katz (Department of Chemistry & Biomolecular Science, Clarkson University, Potsdam, USA), Venkateswarlu Gopishetty, Zhou Jean, Tam Tsz Kin, Sergiy Minko, Maryna Ornatska, Marcos Pita
“Smart” Switchable Electrodes and Membranes for Bioelectrochemical Applications

11:10 to 11:30  
**COFFEE BREAK**

11:30 to 11:50
Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Université Paris, Denis Diderot, Paris 7, Paris, France), Vincent Noel
Nucleation and growth mechanism during the redox switching dynamics of poly(3,4-ethylenedioxythiophene)

11:50 to 12:10
Waldfried Plieth (Technische Universität Dresden, Dresden, Germany), Xuan-Dung Dang, Salim Ok, Ulrich Scheler
New materials by copolymerization of conducting polymers

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 213 (Floor P1)
Chair: Mikheil Vorontyntsev, Hiroki Habazaki

10:50 to 11:10
Włodzimierz Kutner (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Francis D’Souza, Emilia Grodzka, Piotr Pieta, Andrzej Sadkowski, Ganesh M. Venukadasula, Magdalena Warczak, Krzysztof Winkler
Electrochemical preparation of a composite of the C60-based conducting polymer and single-wall carbon nanotubes, and its selected properties

11:10 to 11:30  
**COFFEE BREAK**

11:30 to 11:50
Jessica Chamier (Department of Chemistry and Polymer Sciences, University of Stellenbosch, Council for Science and Industrial Research, Natural Resources and the Environment, Stellenbosch, South Africa), Andrew M. Crouch, Joy Leaner
Immobilised fluorescent chemosensor on TiO₂ for on-site determination of mercury (II) in aqueous solutions

11:50 to 12:10
Lourdes Cabrera (Química-Física Aplicada; Universidad Autónoma de Madrid, Madrid, Spain), Lourdes Cabrera, Silvia Gutierrez, Pilar Herrasti, Nieves Menendez, María del Puerto Morales
Electrochemical Generation of Magnetite and Synthesis of Magnetite-Polypyrrole composites
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location:** Room 212 (Floor P1)
**Chair:** Ramon Novoa, Kemal Nisancioglu

10:10 to 10:50 **Keynote**
Kemal Nisancioglu (Norwegian University of Science and Technology, Trondheim, Norway)
Effect of Low Melting Point Trace Element Segregation on Electrochemistry and Corrosion of Aluminum Alloys

10:50 to 11:10
Assis Vicente Benedetti (Instituto de Química da Universidade Estadual Paulista, Araraquara, Brazil), Sergi Dosta, José M. Guilemany, Marina Magnani, Patricia H. Suegama
Investigation of the corrosion behavior of cermet coatings thermally sprayed on aluminum alloy.

11:10 to 11:30 **COFFEE BREAK**

11:30 to 11:50
Nicole Fink (Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany), Guido Grundmeier, Galina Klimow, Markus Valtiner
Investigation of Forming Behaviour of Ultra-Thin Hybrid Conversion Layers on Zinc Coated Steel

11:50 to 12:10
Klaus-Michael Mangold (Karl-Winnacker-Institut, DECHEMA e.V., Frankfurt am Main, Germany), Dietmar Ende, Stefanie Hild
Electrochemically Prepared Magnesium Particles for Local Corrosion Protection

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location:** Room 214 (Floor P1)
**Chair:** Christos Comninellis, Sandra Rondinini

10:10 to 10:30
Yuliya Dzyazko (V.I. Vernadskii Institute of General & Inorganic Chemistry, Kiev, Ukraine)
Ion Transport Through Macroporous Membrane Modified With Nanoparticles of Inorganic

10:30 to 10:50
Janet Baron (Department of Chemistry, University of Guelph, Guelph, Canada), Anna Frydrychewicz, Jacek Lipkowski, Slawomir Sek, Grzegorz Szymanski
Kinetic studies of the thiosulfate leaching of gold in the presence of organic additives

10:50 to 11:10
Pierre Millet (Université Paris Sud 11, Orsay, France), Claude Etiévant, Claude Etiévant, Vladimir Fateev, Vladimir Fateev, Serguey Grigoriev, Serguey Grigoriev, Christophe Puyenchet, Christophe Puyenchet
GenHyPEM : a research program on PEM water electrolysis supported by the European Commission

11:10 to 11:30 **COFFEE BREAK**

11:30 to 12:10 **Keynote**
Thomas Chapman (Chemical Engineering Department, University of Wisconsin-Madison, Washington, USA)
Calculation of Ionic Transport to Electrodes
Symposium 8: Electrochemical Energy Conversion and Storage

**Location:** Main Theatre (Salón de Actos, Floor PB)
**Chair:** Robert Kostecki

10:10 to 10:50 **Keynote**
Hector Abruna (Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA)
**Electrical Energy Generation and Storage: Fuel Cells, Lithium Ion Batteries and SuperCaps**

10:50 to 11:10
Petr Novak (Paul Scherrer Institute, Villigen PSI, Switzerland), Dietrich Goers, Matthias Hahn, Rüdiger Kötz, Patrick W. Ruch, Michael E. Spahr, Joachim Ufheil
**In Situ Electrochemical Dilatometry: Lithium Intercalation into Carbon Electrodes**

11:10 to 11:30 **Coffee Break**

11:30 to 11:50
Melanie Alias (CEA/DRT/LITEN/DTNM/LCE, Grenoble, France), Mickaël Boinet, Thierry Brousse, Frédéric Le Cras
**In situ monitoring of silicon negative electrode for lithium ion batteries by an acoustic emission technique**

11:50 to 12:10
Ricardo Alcántara (Lab. Química Inorgánica, Córdoba, Spain), Gregorio Ortiz, Radostina Stoyanova, José Luis Tirado, Meglena Yoncheva, Ekaterina Zhecheva
**Effect of the precursors on the structure, local cationic distribution and electrochemistry of LiNi$_{1/2}$Mn$_{1/2}$O$_2$ electrodes**

Symposium 8b: Electrochemical Energy Conversion and Storage

**Location:** Room 107 (Floor E1)
**Chair:** Elton Cairns, Prof. Andrea Russell

10:10 to 10:30
Michael Bron (Ruhr-Universität Bochum, Analytische Chemie, Elektroanalytik & Sensorik, Nachwuchsgruppe Brennstoffzellen, Bochum, Germany), Xingxing Chen, Christian Kulp, Tharamani Chikka Nagaiah, Wolfgang Schuhmann
**Strategies in catalyst development for PEM fuel cells**

10:30 to 10:50
Ivone Alonso (Centro de Investigacion en Materiales Avanzados S.C., Chihuahua, Mexico), Lorena Álvarez-Contreras, Ysmael Verde
**Synthesis and Characterization of Pt/MCM41 for Use in Anode PEM Fuel Cells**

10:50 to 11:10
Lin Zhuang (Department of Chemistry, Wuhan University, Wuhan, China), Hector Abruna, Juntao Lu, Li Xiao
**Activating Pd by Morphology Tailoring for ORR**

11:10 to 11:30 **Coffee Break**

11:30 to 11:50
Nicolas Alonso-Vante (Laboratory of Electrocatalysis, CNRS UMR-CNRS 6503, University of Poitiers, Poitiers, France), Laure Timperman
**Oxide Substrate Effect and Tolerance Enhancement of Platinum Nanocatalysts**
11:50 to 12:10
Reidar Tønlo (Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway), Rune Halseid
Hydrogen Oxidation on Pt-Ru PEM Anodes, Mechanism, Effective Mass Transfer and Effect of CO\textsubscript{2} and inert gases

Symposium 10: General Session

**Location:** Room 215 (Floor P1)
**Chair:** G. Snook, Z. Samec

10:50 to 11:10 *Invited*
Siegfried R. Waldvogel (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Andreas Fischer, Ulrich Griesbach, Axel Kirste, Itamar M. Malkowsky, Hermann Pütter
Novel Anodic Concepts for the Ortho-selective Phenol Coupling Reaction

11:10 to 11:30
Coffee Break

11:30 to 11:50
Elisabetta Petrucci (Department of Chemical Engineering Materials and Environment, Roma, Italy), Carlo Merli, Daniele Montanaro
Electrochemical Synthesis of Trimetaphosphate on a Boron-Doped Diamond Electrode

11:50 to 12:10
Libuse Trnkova (Department of Chemistry, Faculty of Science, Masaryk University Brno, Brno, Czech Republic), Oldrich Dracka
Elimination Voltammetry of an Irreversible Electrode Process with the Preceding Chemical Reaction for a Totally Adsorbed Electroactive Substance
Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Jan Labuda, Miroslav Fojta

15:10 to 15:30 Invited
Arben Merkoci (UAB & ICN, Bellaterra, Spain), Adriano Ambrosi
Sensing DNA and proteins via tagging with nanoparticles

15:30 to 15:50
Jan Labuda (Institute of Analytical Chemistry, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava, Bratislava, Slovakia), J. Galandova
DNA biosensors based on screen-printed carbon electrodes with carbon nanotubes and chitosan interface

15:50 to 16:10 Invited
Emil Palecek (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic)
Trends in protein and nucleic acid electroanalysis

16:10 to 16:30
Miroslav Fojta (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic), Hana Cahova, Ludek Havran, Michal Hocek, Petra Horakova, Pavel Kostecka, Hana Pivonkova, Jan Vacek, Milan Vrabel
Introducing Electrochemically Active Labels into DNA: Applications in Analysis of DNA Sequences and Sensing of DNA Damage

16:30 to 16:50
Coffee Break

16:50 to 17:10
Masanori Adachi (EBARA Research CO., LTD., Fujisawa, Japan)
High Performance MFCs with a Mediator-Polymer Modified Anode and Metal Reducing Bacteria

17:10 to 17:30
Jesus Iniesta (Physical Chemistry and Institute of Electrochemistry, University of Alicante, San Vicente, Alicante, Spain), Luis A. Alcaraz, Helen J. Cooper, Maria Deseada Esclapez-Vicente, John Heptinstall, Victor Mikhailo, Mario Piccioli, David J. Walton
Selectively electrochemical modification of proteins on platinum and boron-doped diamond (BDD) electrodes: nitration of lysozyme and myoglobin.

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Session dedicated to Profs. Jan Sluyters and Margaretha Sluyters-Rehbach in recognition of their significant contributions to physical and interfacial electrochemistry

Location: Room 210 (Floor P1)
Chair: Rafael Andreu, Marc Koper

15:10 to 15:50 Keynote
Ronald W. Fawcett (Department of Chemistry, University of California at Davis, Davis, USA)
Monte Carlo Studies of Ion Size Effects in the Diffuse Double Layer

15:50 to 16:10
Tamás Pajkossy (Institute of Materials and Environmental Chemistry Chemical Research Center, Hungarian Academy of Sciences, Budapest, Hungary), Dieter Kolb
Interfacial capacitance of the platinum-group metals in aqueous solutions
16:10 to 16:30  
Jorge Mostany (Departamento de Química, Universidad Simón Bolívar, Caracas, Venezuela), Carlos Borras, David Mazaira, Benjamin Scharifker  
Hierarchical overlap of diffusion zones: a Monte Carlo study for a new model of multiple nucleation with diffusion controlled three-dimensional growth

16:30 to 16:50 Coffee Break

16:50 to 17:10  
Wolfgang Schmickler (Institute of Theoretical Chemistry, Ulm, Germany), Renat Nazmutdinov, Eckard Spohr, Florian Wilhelm  
Proton Transfer to Metal Electrodes from the Kinetic and Mechanistic Viewpoint

17:10 to 17:30  
Annick Hubin (Vrije Universiteit Brussel, Dept. Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Kitty Baert, Orlin Blajiev, Herman Terryn  
Electrochemical, spectroscopic and computational study of molecular adsorption on Ag.

17:30 to 17:50  
Magdaléna Hromadová (J. Heyrovský Institute of Physical Chemistry of ASCR, v.v.i., Praha, Czech Republic), Jana Bulicková, Lubomír Pospíšil, Romana Sokolová  
Cationic Catalysis and Current Oscillations in the Reduction of Aromatic Nitrocompounds.

Symposium 3: Electroanalytical Chemistry at the Nanoscale

Location: Room 211 (Floor P1)  
Chair: Maria Encarnacion Lorenzo, Chee-Seng Toh

15:10 to 15:30  
Annia Kycia (Department of Chemistry, University of Guelph, Guelph, Canada), Jacek Lipkowski, Slawomir Sek  
Electrochemical and STM studies of the adsorption of 1-thio-ß-D-glucose on Au(111): Foundation for the design of a tethered-lipid bilayer membrane

15:30 to 15:50  
Agustín González Crevillén (Química Analítica, Alcalá de Henares, Spain), Alberto Escarpa, Cristina González, Martin Pumera  
Analytical evaluation of carbon nanotubes as electrochemical detectors in Ce microchips using water-soluble vitamins

15:50 to 16:10  
Frederique Deiss (Université de Bordeaux 1, Pessac, France), Patrick Garrigue, Sébastien Laurent, Thierry Livache  
Ordered microarrays of opto-electrochemical nanosensors with electropolymerized thin film for DNA detection

16:10 to 16:30  
Giovanna Marrazza (Department of Chemistry, Sesto Fiorentino (Firenze), Italy), Francesca Berti, Guido Faglia, Luca Lozzi, Marco Mascini, Ilaria Palchetti, Sandro Santucci, Giorgio Sberveglieri  
New nanostructured materials for genosensor sensing

16:30 to 16:50 Coffee Break

16:50 to 17:10 Invited  
Alison Downard (Department of Chemistry, University of Canterbury, Christchurch, New Zealand), David Garrett, Joshua Lehr  
Spontaneous Grafting of Aryldiazonium Salts: A New Approach to Microcontact Printing

17:10 to 17:30  
Priscilla Baker (Chemistry, Bellville, South Africa), Amir Al-Ahmed, Emmanuel Iwuoha, David Key, Zelo Mangombo, Tesfaye Waryo  
Electrochemical Impedance Analysis of L-phenylalanine Biosensor Constructed on a Conductive Polymer Modified Boron Doped Diamond Platform
Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

**Location:** Room 209 (Floor P1)  
**Chair:** Ladislav Kavan, Gérard Bidan

15:10 to 15:30
Suresh Kumar Palathedath (Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore, India), Lakshminarayanan Vedagiri  
**Electrochemical Studies of Redox Probes in Self-Organized Lyotropic Liquid Crystalline Systems**

15:30 to 15:50
**Invited**  
Robert Hillman (University of Leicester, Leicester, United Kingdom), Robert Cubitt, Robert Dalgliesh, Andrew Glidle, Phil Pearson, Karl Ryder, Emma Smith  
**Influence of solvation on structure and dynamics of functionalized polypyrrole films**

15:50 to 16:30
**Keynote**  
Catherine Combellas (Environnement et Chimie Analytique, Paris, France)  
**Electrografting of Insulating Surfaces**

16:30 to 16:50
**Coffee Break**

16:50 to 17:10
Jingyuan Chen (Department of Applied Physics, University of Fukui, Fukui, Japan), Koichi Aoki  
**Size-dependent efficiency of electron transfer at suspended redox latex**

17:10 to 17:30
**Invited**  
Francisco Montilla (Inst. Universit. de Materiales de Alicante, Universidad de Alicante, Alicante, Spain)  
**Electrochemical Fluorescence Spectroscopy: A Powerful Tool for the Characterization of Conjugated Polymers.**

17:30 to 17:50
Csaba Visy (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary), Gábor Bencsik, Csaba Janáky, Emese Kriván  
**Conducting polymer-based composite catalysts for photo-, magneto- and bio-electrochemistry**

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 007 (Floor PB)  
**Chair:** Waldfried Plieth, Włodzimierz Kutner

15:10 to 15:30
**Invited**  
Mikhail Vorotyntsev (ICMUB - UMR 5260, Universite de Bourgogne, Dijon Cedex, France), Magdalena Graczyn, Anna Lisowska-Oleksiak, Aleksandra Rajchowska, Magdalena Skompska  
**Synthesis and Characterization of Hybrids Materials: Conducting Polymer/Incorporated Ag Nanoparticles**

15:30 to 15:50
Kohei Uosaki (Division of Chemistry, Graduate School of Science, Hokkaido University, Sapporo, Japan), Ken Kitamura, Satoru Takakusagi  
**In situ Real-time Monitoring of Electrochemical Ag Deposition on a Reconstructed Au(111) Surface Studied by Scanning Tunneling Microscopy**

15:50 to 16:10
Salvatore Piazza (Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università di Palermo, Palermo, Italy), Rosalinda Inguanta, Carmelo Sunseri  
**Growth and photo-electrochemical behaviour of Cu$_2$O nanowires**
16:10 to 16:30
J.M. Montero (Electrodep, Dept. Química Física, Universitat de Barcelona, Barcelona, Spain),
M. Belenguer, C. Müller, M. Sarret
Electrochemical nucleation of silver on Ni nanoelectrodes

16:30 to 16:50
Coffee Break

16:50 to 17:30 Keynote
Hiroaki Tsuchiya (Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka, Japan)
Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers

17:30 to 17:50
Julia Kunze (University of Erlangen-Nürnberg, Department of Materials Science, Erlangen, Germany),
Steffen Berger, Darren LeClere, Patrik Schmuki, Peter Skeldon, George E. Thompson, Anna Valota
High efficiency TiO$_2$ nanotubes – Tracer investigation of pore formation

Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 213 (Floor P1)
Chair: Ivan Krastev, Achim Walter Hassel

15:10 to 15:30
Claire Fournier (Institut Charles Gerhardt, A.I.M.E., Montpellier, France)
Silver-Palladium mesowires for the extended detection of H$_2$

15:30 to 15:50
Roberto M. Torresi (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil),
Fernanda F. C. Bazito, Marcelo J. Monteiro
Ether-chain-based Ionic Liquids for Improving Li$^+$ conductivity

15:50 to 16:10
Vessela Tsakova (Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria),
Svetlozar Ivanov, Vladimir Lyutov, Vladimir Mirsky
Characteristics of Polyaniline Layers Electrochemically Synthesized in the Presence of a Sulfonic and the Corresponding Poly-sulfonic Acid

16:10 to 16:30
Catherine Debiemme-Chouvy (LISE UPR15 du CNRS, Université P. et M. Curie, Paris, France)
Template-free electrosynthesis of polypyrrole nanowire arrays.

16:30 to 16:50
Coffee Break

16:50 to 17:10
Katrin Wessels (Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Hannover, Germany), Torsten Oekermann
Electrodeposition of highly porous TiO$_2$ films for dye-sensitized solar cells

17:10 to 17:30
Ji-Young Kim (Department of Materials Science and Engineering, Yonsei University, Seoul, Korea),
Kwang Heon Kim
Fabrication of Carbon Nanotube Films with Honey Comb-Like Structure
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location: Room 212 (Floor P1)**
Chair: Fatima Montemor, Irina Serebrennikova

15:10 to 15:50 **Keynote**
Irina Serebrennikova (Energizer, Westlake, USA), Jan Macak, Patrik Schmuki
Steel corrosion in alkaline battery environment

15:50 to 16:10
Vlad Zamlynny (Chemistry Department, Acadia University, Wolfville, Canada), Suzanne Blatt, Robyn Jackson, Stuart Read
*In situ* Investigation of Adsorption of Benzotriazole (BTA) on Au(111) using Polarization Modulation Infrared Reflection Absorption Spectroscopy (PM IRRAS)

16:10 to 16:30
Jean-Baptiste Jorcin (Vrije Universiteit Brussels, Dept. Metallurgy, Electrochemistry and Materials Science (META), Brussels, Belgium), Emmanuel Aragon, Annick Hubin, Rik Pintelon
Modeling of the behavior of an organic coating using odd random phase multisine EIS.

16:30 to 16:50 **Coffee Break**

16:50 to 17:10
Tom Breugelmans (Vrije Universiteit Brussels, Dept. Metallurgy, Electrochemistry & Materials Science, Materials and Chemistry Group, Brussels, Belgium), Tom Hauffman, Rene Hausbrand, Annick Hubin, Herman Terryn, Els Tourwé, Jan Wielant
Odd random phase multisine EIS as a tool for coating optimization

17:10 to 17:30
António Castela (Escola Sup. de Tecnologia do Barreiro, Lavradio, Portugal), João Fernandes, João Torres
Statistical Analysis on SVET Results

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

**Location: Room 214 (Floor P1)**
Chair: Claude Levy-Clement, Yoshio Takasu

15:10 to 15:30
Guenter Schiller (Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Technische Thermodynamik, Stuttgart, Germany), Asif Ansar, Michael Lang, Olaf Patz
Electrochemical Performance of Metal Supported Solid Oxide Cells Used for High Temperature Water Electrolysis

15:30 to 15:50
Vincent Minsier (Division of Materials and Process Engineering (IMAP), Université catholique de Louvain, Louvain-La-Neuve, Belgium), Juray De Wilde, Joris Proost
Influence of bubble dynamics on ultrasound assisted electrochemical processes

15:50 to 16:10 **Invited**
Adriana Scaffidi (Acta Spa, Crespina, Italy), Dele Ajala, Hubert Gasteiger, Michele Piana, Serena Santiccioli
Alkaline water electrolyzer technology: electrode catalysts development

16:10 to 16:50 **Coffee Break**

16:50 to 17:10
Annalisa Vacca (Dipartimento di Ingegneria Chimica e Materiali, Cagliari, Italy)
Electrochemical treatment of natural waters: formation of products and by-products.
17:10 to 17:30
Karine Groenen Serrano (Laboratoire de Génie Chimique, CNRS, Toulouse, France), André Savall, Pierre Spitéri, Elsa Weiss
Role of hydroxyl radicals during electrooxidation of organic compounds

Symposium 8: Electrochemical Energy Conversion and Storage

Location: Main Theatre (Salón de Actos, Floor PB)
Chair: Petr Novak

15:10 to 15:30
Dino Tonti (Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain), Eduardo Enciso, Jesus Sanz, Isabel Sobrados, Maria Jose Torralvo
Ordered Macroporous Lithium Manganese Oxide Spinels as Cathodes for Lithium Batteries

15:30 to 15:50
Sang Bok Ma (Department of Materials Science and Engineering, Yonsei University, Seoul, Korea), Kwang Bum Kim, Kyung Wan Nam, Sung Min Park
Lithium Manganese Oxide/Carbon Nanotube Nanocomposite with High Rate Capability

15:50 to 16:10
Zbigniew Wronski (CANMET Energy Technology Centre, Ottawa, Canada)
Electro-dilatometric Study of Hydrogen Ion Insertion into Materials for Electrochemical Energy Storage and Conversion: Ni hydroxides and NiAl LDHs

16:10 to 16:30
Pascal Maire (Paul Scherrer Institut, Electrochemistry Laboratory, Batteries, Villigen, Switzerland), Anna Evans, Hermann Kaiser, Petr Novák, Werner Scheifele
In situ colorimetric determination of lithium content in graphite anodes of lithium-ion batteries

16:30 to 16:50
Coffee Break

16:50 to 17:30
Keynote
Katsuhiko Naoi (Tokyo University of Agriculture & Technology, Tokyo, Japan)
Recent Advances in Supercapacitors and Hybrid Power Sources

17:30 to 17:50
Jean Frédéric Martin (Institut des Matériaux Jean Rouxel (IMN), CNRS UMR 6502, Université de Nantes, France, Nantes, France), Nicolas Dupré, Dominique Guyomard, Ryoji Kanno, Atsuo Yamada
LiFePO₄ powders: Synthesis and interface phenomena upon storage and cycling.

Symposium 8b: Electrochemical Energy Conversion and Storage

Location: Room 107 (Floor E1)
Chair: Claude Lamy, Masahiro Watanabe

15:10 to 15:30
Ulrich Stimming (Department of Physics E19, Technical University of Munich, Munich, Germany), Liquan Chen, Kelong Huang, Haibo Wang
Solid state protonic conductor (NH₄)₂SnP₄O₁₃ for intermediate temperature fuel cells

15:30 to 15:50
Naoki Toshima (Department of Materials Science and Environmental Engineering, Tokyo University of Science, Yamaguchi, SanyoOnoda, Japan), Takahiro Yoshimoto
Preparation and Electrocatalytic Activity of Nafion®-Protected Au-Pt Bimetallic Nanoparticles

15:50 to 16:10
Ivan Radev (Electrochemistry of Solid State Electrolytes, Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria), Georgi Georgiev, Vesselin Sinigersky
Electrochemical Investigation and Optimization of Proton Exchange Membranes for Electrochemical Hydrogen Energy Conversion
16:10 to 16:30
Olga Khazova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Alla Mikhailova, Vitalii Grinberg, Lyudmila Krasko, Natalia Maiorova, Alexander Smolkov

Membrane Composites of Nafion and Ion Track-Etched Polyethylenterephthalate Matrix for DMFC

16:30 to 16:50 Coffee Break

16:50 to 17:10
Christos Argirusis (TU Clausthal, Ins. f. Metallurgy, Clausthal-Zellerfeld, Germany), Galina Alikina, Lubsan Batuyev, Jorge Frade, Tamara Kharlamova, Tamara Kriger, Svetlana Pavlova, Vladislav Sadykov

Fe- and Al-doped Apatite Type Lanthanum Silicates as Electrolyte Materials for SOFCs

17:10 to 17:30
Artjom Maljusch (Anal. Chem., Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Kathrin Eckhard, Wolfgang Schuhmann, Stefanie Schwamborn

Visualization of local catalyst activity towards oxygen reduction in hydrochloric acid solution with RC-SECM

17:30 to 17:50
Sergey Pronkin (Laboratoire des Materiaux, Surfaces et Procedes pour la Catalyse, Ecole de Chimie, Polymeres et Materiaux, UMR 7515, Strasbourg, France), Antoine Bonnefont, Fernando Godinez, Elena Savinova

Well-defined Pt electrocatalysts supported by novel TiO2 substrates for fuel cell processes

Symposium 10: General Session

Location: Room 215 (Floor P1)
Chair: K. Mayrhofer, J. Marquez

15:10 to 15:30
Diego Centonze (DiSACD, Dipartimento di Scienze Agro-ambientali, Chimica e Difesa Vegetale, and BIOAGROMED, Università degli Studi di Foggia, Foggia, Italy), Daniela dell’Oro, Valeria Nardelli, Carmen Palermo, Manuela Petroianni

Pulsed amperometric detection for the determination of β-agonists in reverse-phase high performance liquid chromatography

15:30 to 15:50
Zainab Mohammed Redha (Chemical Engineering and Analytical Science, Manchester, United Kingdom)

Electrochemiluminescence Analysis in Miniaturised Disposable Polymer Microdevices

15:50 to 16:10
Graeme Snook (Division of Minerals, CSIRO, Clayton South, Australia), Mark Cooksey, Katherine McGregor, Andrew Urban

Fast Fourier Transform Method for Converting Resistometer (Current Pulse) Data to AC Impedance Data

16:30 to 16:50 Coffee Break

16:50 to 17:10
Eric Vieil (LEPMI (CNRS + Grenoble-INP + UJF), Saint Martin d’Hères, France)

Is Nernst Law universal?

17:10 to 17:30
Jairo Márquez (Universidad de Los Andes - Facultad de Ciencias - Departamento de Química, Mérida, Venezuela), Burguera Griceyd, Márquez Olga, Sindoni Yira, Martínez Yris

Carbon paste modified with copper and copper macrocycles for Electrochemical reduction of oxygen

17:30 to 17:50
Tsutomu Takamura (Department of Applied Chemistry, Harbin Institute of Technology, Harbin, China), Junji Suzuki

Comparison of the Rate of Diffusion of Lithium in Single-crystal and Poly-crystal Aluminum
### Plenary lecture: Professor Zhong-Qun Tian - Main Theatre (Salón de Actos)

**Friday 12 September 2008**

<table>
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<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00-10:00</td>
<td>Plenary lecture: Professor Zhong-Qun Tian - Main Theatre (Salón de Actos)</td>
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</table>

| 10:10-10:30 | A. Vaskevich | T. Jacob | N. Hoshi | V. Gonçalves | L. Kavan | I. Krastev | A. Gergely | C. Vayenas | A. Nyman |
| 10:30-10:50 | P. Millner    | G. Beltramo | D. O Hare | L. Kavan | I. Krastev | A. Gergely | C. Vayenas | A. Nyman |
| 11:10-11:30 | K. Ichinose   |                                                     |

| 11:30-12:10 | Coffee Break / Poster session |

**Symposiums S6, S7, S8, S9 & S10**

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<td>13:10-13:30</td>
<td>Closing ceremony</td>
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Friday 12 September 2008

Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

Salón de Grados (Floor PA)
Chair: Paul Millner, Phillip Bartlett

10:10 to 10:30 Invited
Alexander Vaskevich (Department of Materials and Interfaces, Weizmann Institute of Science, Rehovot, Israel), Tatyana A. Bendikov, Tanya Karakouz, Israel Rubinstein, Alexander Tesler
Localized Surface Plasmon Resonance (LSPR) Spectroscopy in Biosensing

10:30 to 10:50
Paul Millner (IMSB/FBS, Leeds, United Kingdom), Morsoline Billah, Frank Davis, Tim Gibson, Henry Hays, Seamus Higson, Mark Rodgers, Alex Vakurov
Affinity directed construction of amperometric biosensors and impedimetric reagentless immuno sensors - letting the sensor construct itself

10:50 to 11:10
Hye-Weon Yu (Department of Environmental Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Nguyen Huong Giang, Sung-Min Kim, Jinwook Lee
Optimization and Characterization of Quantum Dot-Antibody Conjugation for Efficient Electrochemical Bio-Label as a Biosensing Tool

11:10 to 12:10
COFFEE BREAK / POSTER SESSION

12:10 to 12:50 Keynote
Allen Hill (Oxford Biosensors Ltd, Yarnton, United Kingdom), Julie Deacon, Stuart Evans, Alex Harris
The MultiSense Electrode: a Platform Technology

12:50 to 13:10
Isabel Van De Keere (Department of Metallurgy, Electrochemistry and Materials Sciences, Vrije Universiteit Brussels, Brussels, Belgium), Annick Hubin, Jean Vereecken
Electrochemical Study of the Adsorption Behaviour of Human Plasma Fibrinogen and Hen Egg White Lysozyme on Ti Combined With in situ Ellipsometry, and in situ AFM

Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

Location: Room 210 (Floor P1)
Chair: Ezequiel Leiva

10:10 to 10:50 Keynote
Timo Jacob (Institut für Elektrochemie, Universität Ulm, Ulm, Germany)
Theoretical Studies on Adsorbate-Induced Faceting of Ir and Re Surfaces

10:50 to 11:10
David J. Fermin (School of Chemistry, University of Bristol, Bristol, United Kingdom), Christopher R. Bradbury, Jianjun Zhao
Distance Independent Charge Transfer Resistance across Nanoscale Metal-Insulator-Metal Junctions

11:10 to 12:10
COFFEE BREAK / POSTER SESSION
12:10 to 12:30
  Ernesto Julio Calvo (INQUIMAE, Fac. Ciencias Exactas, Universidad de Buenos Aires, Buenos Aires, Argentina), Mario Tagliazucchi, Miguel Angel Vago, Federico Williams
  **Palladium Nanocatalyst Electrodeposited from Polyelectrolyte Nanoreactor**

12:30 to 12:50
  Galina A. Tsirlina (Faculty of Chemistry, Moscow State University, Moscow, Russian Federation), Nina V. Titova, Pavel A. Zagrebin
  **Corrected Plots in Electrochemical Kinetics: Beyond Tafel**

12:50 to 13:10
  Javier Fdez. Sanz (Dept. Physical Chemistry, University of Seville, Seville, Spain)
  **First Principles Simulations of Metal/Water Interfaces**

### Symposium 2b: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

**Location: Room 213 (Floor P1)**
**Chair: Enrique Herrero**

10:10 to 10:30
  Nagahiro Hoshi (Department of Applied Chemistry and Biotechnology, Graduate School of Engineering, Chiba University, Chiba, Japan), Akira Nakahara, Masashi Nakamura, Osami Sakata, Kazushi Sumitani
  **Determination of Real Structures of High Index Planes of Platinum with *in situ* Surface X-ray Scattering**

10:30 to 10:50
  Guillermo Beltramo (Institut für Bio- und Nanosysteme, IBN4, Forschungszentrum Jülich, Jülich, Germany), Harald Ibach, Giesen Margret
  **Properties of vicinal surfaces in contact with an electrolyte**

10:50 to 11:10
  Carlos M. Sánchez-Sánchez (Dept. Chemistry and Biochemistry, The University of Texas at Austin, Austin, USA), Allen J. Bard, Joaquín Rodríguez-López
  **Study of the Oxygen Reduction Mechanism at Different Electrocatalysts by Quantification of their Product Selectivity Using Scanning Electrochemical Microscopy**

11:10 to 12:10
  **COFFEE BREAK / POSTER SESSION**

12:10 to 12:30 *Invited*
  Olaf Magnussen (Institut für Experimentelle und Angewandte Physik, Christian-Albrechts-Universität Kiel, Kiel, Germany)
  **Transmission Surface X-ray Diffraction Studies of Electrochemical Interfaces**

12:30 to 12:50
  Gregory Jerkiewicz (Department of Chemistry, Queen’s University, Kingston, Canada), Jean Lessard, Shin-ichi Tanaka, Gholamreza Vatankhah
  **Discovery of the Potential of Minimum Mass and Analysis of Its Importance to Interfacial Electrochemistry**

12:50 to 13:10
  Paramaconi Rodriguez (Leiden Institute of Chemistry, University of Leiden, Leiden, Netherlands), Juan M. Feliz, Marc Koper
  **Electrochemical and spectroscopic study of CO oxidation on gold single-crystal electrodes in alkaline media**
Symposium 3: Electroanalytical Chemistry at the Nanoscale

**Location:** Room 211 (Floor P1)
**Chair:** Virginia Ruiz, José M. Pingarrón

10:10 to 10:30
**Vinícius Gonçalves** (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Susana Córdoba de Torres, Elaine Matsubara, José Maurício Rosolen  
*Carbon nanotube/felt composite electrode modified with Prussian Blue hybrid analogue. Application in biosensors*

10:30 to 10:50 **Invited**
**Danny O’Hare** (Dept. of Bioengineering, London, United Kingdom), Eleni Bitziou, Bhavik Patel  
*Electroanalytical methods for real-time measurement of neurotransmitters*

10:50 to 11:10
**Kenneth Ozoemena** (Department of Chemistry, Pretoria, South Africa)  
*Electron Transfer Dynamics of Novel C60-Metallophthalocyanine Conjugates*

11:10 to 12:10 **Coffee Break / Poster Session**

12:10 to 12:30
**Ana Maria Chiorcea Paquim** (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal), Oana Corduneanu, Victor Constantin Diculescu, Ana Maria Oliveira Brett  
*Palladium Nanoparticles and Nanowires Electrodeposited onto Carbon Electrodes: AFM and Electrochemical Studies*

12:30 to 12:50
**Magdalena Skunik** (Department of Chemistry, University of Warsaw, Warsaw, Poland), Magda Chudek, Pawel J. Kulesza, Iwona Rutkowska  
*Electroanalytical Applications of Network Films of Carbon Nanotubes Modified with Ultra-Thin Films of Polyoxyometallates and Conducting Polymers*

12:50 to 13:10
**Jahir Orozco Holguín** (Micro and Nanosystems Department, Instituto de Microelectrónica de Barcelona, CNM-IMB, CSIC, Barcelona, Spain), César Fernández-Sánchez, Cecilia Jiménez-Jorquera  
*Gold nanoparticle-modified ultramicroelectrode arrays for copper detection in soil extract samples*

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

**Location:** Room 209 (Floor P1)
**Chair:** Catherine Combellas, Bernd Speiser

10:10 to 10:50 **Keynote**
**Ladislav Kavan** (J. Heyrovsky Institute of Physical Chemistry, Prague 8, Czech Republic), Ivan Exnar, Michael Graetzel  
*Nanotube-wiring: Enhancement of electrochemical activity of LiFePO4 (olivine) by amphiphilic Rupipyrindine complex anchored to a single walled carbon nanotube*

10:50 to 11:10 **Invited**
**Emmanuel Maisonhaute** (Ecole Normale Supérieure, Paris, France), Christian Amatore, Bernd Schöllhorn  
*Charge transport through molecules: From ultrafast commutation to control of ionic movements.*

11:10 to 12:10 **Coffee Break / Poster Session**
12:10 to 12:30
Pilar Cea (Departamento de Química Orgánica y Química Física e Instituto de Nanociencia de Aragón, Zaragoza, Spain), Ignacio Giner, Beatriz Giner, Marta Haro, Santiago Martín, Gorka Pera, Ana Villares
Fabrication of Langmuir – Blodgett films Containing a “Molecular Wire” Candidate

12:30 to 12:50 Invited
Gérard Bidan (Institute Nanosciences & Cryogeny, Grenoble cedex 09, France), Martial Billon, Julien Buckley, Guillaume Delapierre, Lionel Dubois, Florence Duclairoir, Benoît Fleury, Pierre Gouzerh, Nicoleta Joo, Anna Proust, René Thouvenot
Electrochemistry of new polyoxometallates, POMs, for molecular memory devices

12:50 to 13:10
Bruno Fabre (UMR 6226 Sciences Chimiques de Rennes, CNRS, Université de Rennes 1, Rennes, France), Soraya Ababou-Girard, Stéphane Cordier, Christian Godet, Yann Molard, Christiane Perrin, Hussein Sabbah
Assembly of Metallic Clusters onto Silicon Surfaces

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

Location: Room 007 (Floor PB)
Chair: Thierry Pauporte, Estibalitz Ochoteco

10:10 to 10:50 Keynote
Ivan Krastev (Institute of Physical Chemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria)
Electrodeposition of Self-Structured Silver Alloy Coatings

10:50 to 11:10 Invited
A. Möbius (Enthone GmbH, Langenfeld, Germany), F. Endres, A. Koenig, R. Pittner, C. Werner, G. Zeng
Ionic Liquids - a new challenge to plate in combination with reactor technology

11:10 to 11:30
Keigo Ichinose (Gifu University, Gifu, Japan), Tsukasa Yoshida
Epitaxial Electrodeposition of ZnO Thin Films on GaN Bulk Single Crystals

11:30 to 12:10
Coffee Break / Poster Session

12:10 to 12:30
Felipe Caballero-Briones (Department of Physical-Chemistry, Universitat de Barcelona, Barcelona, Spain), Juan Manuel Artés, Ismael Díez Pérez, Pau Gorostiza, Anna Palacios Padrós, Fausto Sanz
Photoelectrochemical and electronic characterization of Cu$_2$O layers prepared by Cu anodization in alkaline media

12:30 to 12:50
Patrizia Bocchetta (Dipartimento di Ingegneria Chimica, Università di Palermo, Palermo, Italy), Di Quarto Francesco, Monica Santamaria
Template-assisted electrodeposition of cerium oxy-hydroxide nanostructures in aqueous and organic electrolytes

12:50 to 13:10
Michael Rohwerder (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Adam Michalik
Long-range ion transport properties of conducting-polymers
Symposium 5b: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

**Location:** Room 107 (Floor E1)
Chair: Robert Dryfe, Hiroaki Tsuchiya

12:10 to 12:30
- Magdalena Skompska (Department of Chemistry, Warsaw University, Warsaw, Poland), Monika Refczynska
  - Polymer/CdS Hybrid Electrodes for Photovoltaic Cells - Synthesis and Characterization

12:30 to 12:50
- Jan Langmaier (J. Heyrovský Institute of Physical Chemistry of the ASCR, v.v.i., Prague 8, Czech Republic), Zdenek Samec
  - Voltammetric study of ion-transfer across a polarized RTIL membrane supported by a microporous filter

12:50 to 13:10
- Winfried Vonau (Kurt-Schwabe-Institut für Mess- und Sensortechnik e.V. Meinsberg, Ziegra Knobelsdorf, Germany), Torsten Bachmann, Ute Enseleit, Frank Gerlach
  - Zinc oxide as functional component in electrochemical sensors with glasses as constructional elements

Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

**Location:** Room 212 (Floor P1)
Chair: Irina Serebrennikova, Fatima Montemor

10:10 to 10:30
- András Gergely (Chemical Research Center of the Hungarian Academy of Sciences, Budapest, Hungary), Erika Kálmán, Ágnes Stahl
  - A Highly Conducting Nanocomposites for Corrosion Protecting Coatings based on Carbon Nanotubes

10:30 to 10:50
- Peter Bressers (TNO Netherlands Organisation for Applied Scientific Research, Business Unit Materials Technology, Eindhoven, Netherlands), Roel Bisselink, Robert Gouwen, Peter Willemsen, John Zevenbergen
  - Corrosion of casing steel during CO₂ underground storage

10:50 to 11:10
- Maria Lekka (Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy), Pier Luigi Bonora, Caterina Zanella, Gabriel Zendron
  - Evaluation of the pitting corrosion resistance of copper matrix electrodeposits containing micro/nano particles of SiC using E.I.S.

11:10 to 12:10
  **Coffee Break / Poster Session**

12:10 to 12:50 **Keynote**
- Fatima Montemor (ICEMS Instituto Superior Tecnico, Technical University of Lisbon, Lisboa, Portugal), Alexandre Bastos, Mario Ferreira, Sviatlana Lamaka, Mikhail Zheludkevich
  - Hybrid Silane Coatings Modified with Nano Additives Impregnated with Corrosion Inhibitors: A Synergistic Combination to Hinder Electrochemical Activity of Metallic Substrates Exposed to Chloride-Containing Environments
12:50 to 13:10
Hendrik Venzlaff (Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany), Denis Enning, Achim Walter Hassel, Martin Stratmann, Friedrich Widdel
Microbial corrosion induced by a new highly aggressive SRB strain

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

Location: Room 214 (Floor P1)
Chair: Emilia Morallon, Marco Musiani

10:10 to 10:30
Constantinos Vayenas (Department of Chemical Engineering, University of Patras, Patras, Greece), Achmed Hammad, Constantinos Koutsodontis, Evangelios Papaioannou, Stamatios Souentie
Electrochemical promotion of catalytic reactions with sputtered metal catalyst-electrode films in a monolithic electropromoted reactor

10:30 to 10:50
Virginie Roche (IRCELYON, Villeurbanne, France), Elodie Comte, Arnold Lambert, Thierry Pagnier, Renaud Reeval, Laure Rodríguez-Perez, Philippe Vernoux
YSZ monolith for the electrochemical promotion of the deep oxidation of methane on Pd

10:50 to 11:10
J.M. Peralta-Hernández (Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, México, Mexico), M. A. Quiróz Alfaro, E. Bandala González, Hernández Ramírez, Villanueva Rodríguez
Electrochemical generation of ferrate ion [Fe(VI)] in acidic media for dye organic compounds degradation in aqueous solution

11:10 to 12:10
COFFEE BREAK / POSTER SESSION

12:10 to 12:30
Edgar Ruiz (Centro de Investigación y Desarrollo Tecnológico en Electroquímica, CIDETEQ S.C. Departamento de Electroquímica, Sanfandila, Pedro Escobedo, Mexico), José L. Jurado, Yunny Meas, Raúl Ortega
Simultaneous Anodic and Cathodic Production of Sodium Percarbonate in Aqueous Solution

12:30 to 12:50
Alberto Vertova (Department of Physical Chemistry and Electrochemistry, The University of Milan, Milano, Italy), Gabriele Aricci, Giorgio Fiori, Cristina Locatelli, Alessandro Minguzzi, Sandra Rondinini
Electrochemical reduction of polychloromethanes from the gas phase

Symposium 8: Electrochemical Energy Conversion and Storage

Main Theatre (Salón de Actos, Floor PB)
Chair: Katsuhiko Naoi

10:10 to 10:30
Andreas Nyman (Applied Electrochemistry, School of Chemical Science and Engineering, Royal Institute of Technology, KTH, Stockholm, Sweden), Mårten Behm, Göran Lindbergh
Characterisation and Modelling of the Mass Transport Phenomena in Li-ion Battery Electrolytes

10:30 to 10:50
Shigehito Deki (Department of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Kobe, Japan), Yusuke Hayashi, Minoru Mizuhata
Effect of Solid Surface Properties on Transport Properties of Non-aqueous Lithium Electrolyte Solution
10:50 to 11:10
Ling Huang (Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China), Jin-Shu Cai, Ling Huang, Fu-Sheng Ke, Shi-Gang Sun, Hong-Bing Wei
Electrodeposition and electrochemical properties of Fe₃O₄ nanowall electrodes for Lithium ion batteries

11:10 to 12:10
COFFEE BREAK / POSTER SESSION

12:10 to 12:30
Joze Moskon (Laboratory for Materials Electrochemistry, National Institute of Chemistry Slovenia, Ljubljana, Slovenia), Robert Dominko, Miran Gaberscek, Janko Jamnik
The importance of inter-phase contacting in mass and charge transport in Li ion cathodes

12:30 to 12:50
Frank C. Walsh (University of Southampton, Southampton, United Kingdom)
Developments and Challenges in Redox Flow Batteries: The All Vanadium, Cerium-Zinc and Soluble Lead Acid Systems

12:50 to 13:10
Jose M. Amarilla (Instituto de Ciencia de Materiales de Madrid (C.S.I.C.), Madrid, Spain), Mohamed Aklalouch, Fernando Pico, Rosa M. Rojas, Jose M. Rojo, Ismael Saadoune
Electrochemical Properties at r.t. and at 55°C of Cr-doped LiNi₀.₅Mn₁.₅O₄ Spinels as 5V-Positive Electrodes

Symposium 10: General Session

Location: Room 215 (Floor P1)
Chair: A. Cuesta, C. Deslouis

10:50 to 11:10 Invited
Gert Weyns (Vakgroep elektrotechniek, Vrije Universiteit Brussel, Brussels, Belgium), Daan De Wilde, Johan Deconinck, Herman Deconinck, Pedro Maciel, Nico Smets
Study of the Discretisation of the Ionic Mass Transport Equations with the “Inverse Scharfetter-Gummel” Method

11:10 to 12:10
COFFEE BREAK / POSTER SESSION

12:10 to 12:30
Steven Van Damme (ETEC Department, Vrije Universiteit Brussel, Brussels, Belgium), Johan Deconinck
A comparative study of mass transport models for computational electrochemistry

12:30 to 12:50
Gyozo G. Lang (Institute of Chemistry, Eotvos Lorand University Budapest, Budapest, Hungary)
Investigation of the Electrochemical Reduction of Perchlorate Ions on Rh by Impedance Spectroscopy
Program of the 59th Annual Meeting of the International Society of Electrochemistry

POSTERS
Poster presentation program
Symposium 1: From Single Biomolecule Electrochemistry to Biosensors and Biofuel Cells

s01-P-001
Masahiro Akiya (Musashi Institute of Technology, Tokyo, Japan)
Mixed taste discrimination for LB film taste sensor

s01-P-002
Wendel Alves (Universidade Federal do ABC, Santo André, Brazil), André Polo, Camila Sousa
Enzyme Immobilization on Nanocrystalline Titanium Dioxide Films.

s01-P-003
Danielle Aubry (Université catholique de Louvain, Division of Materials and Process Engineering, Louvain-la-Neuve, Belgium), Antonio Codina, Patrice Soumillion
On the origin of the interaction of filamentous phages with anodic oxide surfaces

s01-P-004
Lucía Avalle (Facultad de Matemática Astronomía y Física, Córdoba, Argentina), Osvaldo Cámara, Fabiana Oliva
Adsorption of HSA on Ti/TiO₂ electrochemical oxide electrodes. Quantitative interaction effects of protein-oxide surface functional groups

s01-P-005
Yusuke Ayato (Measurement Solution Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Tosu, Japan)
Direct electrochemical response of hemoglobin adsorbed on bare ITO electrode surfaces

s01-P-006
Camelia Bala (University of Bucharest, Dept. of Analytical Chemistry, Labor Q, Bucharest-3, Romania), Adina Arvinte, Ana-Maria Gurban, Lucian Rotariu
Electrochemical System based on Nanocomposite Material used for Detection of some Biological Important Analytes

s01-P-007
Rui Barbosa (Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal), Greg Gerhardt, Peter Huettl, João Laranjinha, Cátia Lourenço, Francois Pomerleau, Ricardo Santos
In vivo Real Time Measurement of Nitric Oxide in Anesthetized Rat Brain

s01-P-008
Assis Vicente Benedetti (Fisico-Quimica, Instituto de Quimica-UNESP, Araraquara, Brazil), Antonio Aparecido Pupim Ferreira, Cecílio Sadao Fugivara, Patricia Hatsue Suegama
Electrochemical and spectroscopic characterization of the SAMs on screen-printed electrodes

s01-P-009
Valerio Beni (Department of Chemical Engineering Universitat Rovira i Virgili, Tarragona, Spain), Hany Nasef
Cystic Fibrosis: development of an Electrochemical Impedance Spectroscopy based screening tool.

s01-P-010
Morsaline Billah (Institute of Membrane and Systems Biology, Faculty of Biological Sciences, Leeds, United Kingdom), H. C. W. Hays, P. A. Millner
Development of Impedimetric Immunosensors for Biomarkers of Cardiac Pathology

s01-P-011
Soledad Bollo (Laboratorio de Bioelectroquímica, Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile), Elizabeth de la Fuente, Marcelo Kogan
Electrochemical assay to search for inhibitors of Aβ(1-42) fibril formation based on carbon nanotubes modified glassy carbon electrodes
s01-P-012
Alessandra Bonanni (Department of Chemistry, Universitat Autonoma de Barcelona, Barcelona, Spain), Manel Del Valle, Maria Jose Esplandiu
Impedimetric Detection of DNA Hybridization using Carbon Nanotubes as Sensing Platform

s01-P-013
Sabine Borgmann (ISAS, Institute for Analytical Sciences & Technische Universität Dortmund, Dortmund, Germany)
Evaluating Different Methods for Electrodepositing Poly Eugenol as Interference Elimination Membrane for Nitric Oxide Microsensors

s01-P-014
Hans Buschop (Ghent University, Department of Analytical Chemistry, Ghent, Belgium), Annemie Adriaens, Lina De Smet, Karolien De Wael
Immobilization of cytochrome c on cysteamine modified gold electrodes with EDC as coupling agent

s01-P-015
José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva
A New Strategy for the Immobilization of β-CDs on Au Surfaces

s01-P-016
Donatella Carelli (DiSACD - Dipartimento di Scienze Agro-ambientali, Chimica e Difesa Vegetale, and BIOAGROMED, Università degli Studi di Foggia, Foggia, Italy), Diego Centonze, Manuela Petroianni, Maurizio Quinto
Development of an aperometric biosensor based on L-amino acid oxidase used as an electrochemical detector in anion-exchange chromatography for foods and supplement dietary monitoring

s01-P-017
Rebecca L. Caygill (Institute of Systems and Membrane Biology, Faculty of Biological Sciences, Leeds, United Kingdom), G. Eric Blair, Paul A. Millner
Developing an Electrochemical Assay to Detect Virus Particles

s01-P-018
Mi-Jin Choi (Department of Environmental Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Folusho Francis Ajayi, Kyu-Jung Chae, Kyoung-Yeol Kim, In S. Kim, Jaeyoung Lee
Effects of Catholyte pH and Membrane Type on the Performances of Microbial Fuel Cells

s01-P-019
Oana Corduneanu (Departamento de Quimica, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Chiorce Paquim, Merrill Garnett, Ana Maria Oliveira Brett
Lipoic Acid – Palladium Complexes Adsorbed on Carbon Electrode Surfaces: Voltammetric and AFM Study

s01-P-020
Cicero Costa (Instituto de Química e Biotecnologia, Maceio, Brazil), Erivaldo Costa, Cenira de Carvalho, Marilia Goulart, Estelita Lima, Paulo Miranda, Maria Teresa Molina, Waldomiro Pinho Junior, Jose Rui Reys, Karlos Ribeiro, Antônio Euzébio Santana
Electrochemical Behaviour, Larvicidal and Molluscicidal Activities of Natural and Synthetic Naphtoquinones

s01-P-021
Carmen CREANGA (CNRS, University of Nantes, Nantes, France), Nabil El Murr

s01-P-022
Vaz-Dominguez Cristina (Instituto de Catálisis, CSIC, Madrid, Spain)
Laccase electrode for direct electrocatalytic reduction of O₂ to H₂O with high operational stability and resistance to chloride inhibition
s01-P-023
Antonella Curulli (Consiglio Nazionale delle Ricerche (CNR) Istituto Materiali Nanostutturati (ISMN), Roma, Italy), Giovanna Battista Appetecchi, Stefano Passerini, Daniela Zane
Amperometric biosensors based on poly(o-phenylenediamine) electrosynthesized in a room temperature ionic liquid.

s01-P-024
María Antonieta Daza Millone (INIFTA-UNLP, La Plata, Argentina), Guillermo A. Benitez, Tania Beatriz Creczynski-Pasa, Andrés A. Pasa, Roberto Carlos Salvarezza, María Elena Vela
Electrochemical detection of biomolecules incorporated in a supported lipid bilayer.

s01-P-025
Antonio De Lacey (Instituto de Catalisis/CSIC, Madrid, Spain), Asunción Alonso-Lomillo, Victor Fernandez, Olaf Rüdiger
Hydrogenase-coated Carbon Nanotubes for electroenzymatic oxidation of Hydrogen.

s01-P-026
Ioana Demetrescu (University Politehnica Bucharest, Bucharest, Romania)
Electrochemical procedures in obtaining and characterization of TiO₂ nanotubes structure on Ti and Ti alloys.

s01-P-027
Victor Constantin Diculescu (Departamento de Química, Facultade de Ciência e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Teodor Adrian Enache, Paulo Oliveira, Ana Maria Oliveira Brett
Electrochemical Oxidation of Some Isoquinoline Alkaloids.

s01-P-028
Adrian Teodor Enache (Departamentos de Quimica, Faculdade de Ciencias e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Oliveira-Brett Ana Maria, Victor C. Diculescu
Electrochemical oxidation of anti-arrhythmia drug disopyramide at a glassy carbon electrode.

s01-P-029
Vanessa Escamilla-Gómez (Dto. Química Analítica, Facultad de Cc. Químicas, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano, María Pedrero, José M. Pingarrón
Disposable Immunosensors Based on Self-Assembled Monolayer-Modified Screen Printed Gold Electrodes for the Determination of Staphylococcus Aureus in Milk Samples.

s01-P-030
Callie Fairman (School of Chemistry, The University of New South Wales, Sydney, Australia), J. Justin Gooding, D. Brynn Hibbert
The Fabrication and Modification of Carbon Electrodes for Biosensing.

s01-P-031
Gabriele Favero (Dipartimento di Studi di Chimica e Tecnologia delle Sostanze Biologicamente Attive, Roma, Italy)
Study of the electron transfer mechanism of Laccases by means of electrochemical techniques.

s01-P-032
Elena E. Ferapontova (Danish National Research Foundation: Centre for DNA Nanotechnology (CDNA), Department of Chemistry and iNANO, The Faculty of Science, Aarhus University, Aarhus, Denmark), Kurt V. Gothelf, Mikkel F. Jacobsen
Effect of Hyridization on Electron Transfer Properties of Redox-Labeled DNAs.

s01-P-033
Olivier Frey (Institute of Microtechnology, University of Neuchâtel, Neuchâtel, Switzerland), Nico de Rooij, Milena Koudelka-Hep, Peter van der Wal
Silicon Microprobe Arrays for the Amperometric Detection of Choline in Brain Tissue.
s01-P-034
Yusuke Fuchiwaki (Department of bioinformatics, Faculty of Engineering, Soka University, Hachioji, Japan), Izumi Kubo, Naoki Sasaki, Junji Takeshita
Electrochemical sensing system for determination of simazine in tap water utilizing molecularly imprinted artificial receptor

s01-P-035
María Gamella (Department of Analitycal Chemistry, Faculty of Chemistry, Complutense University of Madrid, Madrid, Spain), Susana Campuzano, José M Pingarrón, Angel Julio Reviejo

s01-P-036
M. Pilar García Armada (E.T.S.I.I. Universidad politécnica de Madrid, Madrid, Spain), Beatriz Alonso, Carmen M. Casado, Holger Frey, Francisco J. López-Villanueva, José Losada
Electrochemical and bioelectrocatalytical properties of novel block-copolymers containing interacting ferrocenyl units

s01-P-037
Magdalena Gebala (Analytische Chemie - Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Sebastian Neugebauer, Wolfgang Schuhmann, Leonard Stoica
Amplification impedimetric signal of hybridization events via intercalation of the suitable compounds into dsDNA

s01-P-038
Silvia Generelli (Institute of Microtechnology, University of Neuchâtel, Neuchâtel, Switzerland), Nicolaas F. de Rooij, Olivier T Guenat, Mario Jolicoeur, Milena Koudelka - Hep, Peter D. van der Wal
A Platform for In vitro Cell Necrosis Quantification by Induced K⁺ Efflux

s01-P-039
Mariana Emilia Ghica (Universidade de Coimbra, Coimbra, Portugal), Christopher M. A. Brett
An Enzymatic Inhibition Approach for Determination of Heavy Metals at Carbon Film-Poly(Neutral Red)-Glucose Oxidase Biosensor

s01-P-040
Maria Gomez-Mingot (Dept. of Physical Chemistry and Institute of Electrochemistry, University of Alicante, San Vicente, Alicante, Spain), John Heptinstall, Jesus Iniesta, Vicente Montiel, David J. Walton
Direct electrochemical oxidation of methionine and its sulfoxide derivative on boron doped diamond (BDD) electrode: Application to selectively protein modification at methionine residues.

s01-P-041
Elisa González-Romero (Química Analítica y Alimentaria, Universidad de Vigo, Vigo, Spain)
An Overview on the Electrochemistry of Arendiazonium Ions and its (Bio)Analytical Applications

s01-P-042
Luiz Goulart Filho (Institute of Genetics and Biochemistry/Federal University of Uberlândia, Uberlândia, Brazil), Ana Brito-Madurro, Diego Franco, João Madurro, Adriana Neves, Letícia Souza
Electrochemical Detection of Prostate Cancer Using Ethidium Bromide as Intercalator

s01-P-043
Rui Gusmão (Instituto de Ciência Aplicada e Tecnologia, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal), António Cascalheira
Electrodeposition of Polyluminol Films Designed for Electrochemiluminescence Studies

s01-P-044
Rolf Hempelmann (Physical Chemistry, Saarland University, Saarbruecken, Germany), Janine Gajdzik, Friedrich Giffhorn, Gerd W. Kohring, Dieter M. Kolb, Mila Manolova, Harald Natter
A new method for enzyme immobilization on nanostructured electrode surfaces

s01-P-045
Hays Henry (Institute of Membranes and Systems Biology, Leeds, United Kingdom), Tim Gibson, Paul Millner
Construction of organophosphate sensors based on disposable screen printed carbon electrodes.
s01-P-046
Juan Pablo Hervás (Sección Departamenta L de Química Analítica, Facultad de Farmacia U.C.M., Madrid, Spain), Enrique López-Cabarcos, Beatriz López-Ruiz
Encapsulation of Glucose Oxidase within Biocompatible DMAEM Microgels for developing an Amperometric Glucose Biosensor

s01-P-047
Sun-Joo Hwang (Chemistry/Sogang Univ., Seoul, Korea)
Electrochemical Detection of Ferrocenemethanol by Chemical Amplification

s01-P-048
Patricia Janeiro (Departamento de Química, Faculdade de Ciências E Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ivana Novak, Ana Maria Oliveira Brett, Marijan Seruga
Determination of flavonoids by RP-HPLC-ED in different varieties of Portuguese grapes

s01-P-049
Frantisek Jelen (Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno, Czech Republic)
Analysis of Aminopurines at Carbon Paste Electrodes in the Presence of Copper Ions

s01-P-050
Lars Jeuken (Institute of Membrane and Systems Biology, University of Leeds, Leeds, United Kingdom), Richard Bushby, Stephen Evans, Sophie Weiss
Impedance spectroscopy of bacterial membranes: Quinol/Quinone diffusion in a finite diffusion layer

s01-P-051
Yan-Xia Jiang (Department of Chemistry, School of Chemistry and Chemical Engineering, Xiamen University, Fujian, China), Sheng-Wei Chen, Yan-Xia Jiang, Jin Qiu, Shi-Gang Sun, Dong-Mei Zeng, Chun-Hua Zhen
Adsorption and Oxidation of L-Lysine on Au Film Electrodes in Alkaline solutions

s01-P-052
Yan-Xia Jiang (Department of Chemistry, School of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China), Yan-Xia Jiang, Jin Qiu, Shi-Gang Sun, Li Tian, You-Chen Zhou
Preparation and electrochemical-SPR study of glucose oxidase (GOx) biosensor

s01-P-053
Katarzyna Karnicka (Dept. of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza, Krzysztof Miecznikowski
Multi-walled carbon nanotube based mediating system for bioelectrocatalytic oxygen reduction

s01-P-054
Arkady Karyakin (Chemistry Faculty of M.V. Lomonosov, Moscow State University, Moscow, Russian Federation), Fedor Fedotenkov, Elena Karyakina, Oleg Voronin
Hydrogen electrodes based on limiting characteristics of enzymes in bioelectrocatalysis

s01-P-055
Barbara Kowalewska (Dept. of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza
Application of Tetrathiafulvalene Modified Carbon Nanotubes as Mediating System for Glucose Oxidation

s01-P-056
Olivier Laczka (Microsistemas, Centro Nacional de Microelectrónica (IMB-CNMI_CSIC), Bellaterra, Spain), F. Javier del Campo, Rosa María Ferraz, Neus Ferrer-Miralles, Francesc Xavier Muñoz, Antonio Villaverde
Detection of anti-HIV antibodies using microdisc electrode arrays and allosteric enzymes.

s01-P-057
Won-Yong Lee (Department of Chemistry, Yonsei University, Seoul, Korea), Lee Choi, Byung-Kun Kim
Electrochemical Biosensors of Carbohydrate-Binding Proteins Based on Carbohydrate-Modified Gold Electrode
s01-P-058
Chong-Yong Lee (School of Chemistry, Monash University, Clayton, Melbourne, Australia), Alan M. Bond, Darrell M. Elton, Barry D. Fleming, Si-Xuan Guo, Jie Zhang
The Application of Large Amplitude Fourier Transform ac Voltammetry in the Protein Films Studies

s01-P-059
Fernández Lenys (Universidad Simón Bolívar, Caracas, Venezuela), María Hernández, Carlos Borrás, Jorge Mostany
Characterization of surfactant/hydrotalcite-like clay/glassy carbon modified electrodes: oxidation of phenol

s01-P-060
Fred Lisdat (University of Applied Sciences Wildau, Wildau, Germany), Thomas Balkenhohl
Oxygen-reducing electrodes based on layer-by-layer assemblies of cytochrome c and laccase

s01-P-061
Fred Lisdat (Wildau University of Applied Sciences, Biosystems Technology, Wildau, Germany), Jacqueline Friedmann, Dirk Kurth, Helmuth Mohwald, Dietmar Pum, Frieder Scheller, Uwe Sleytr
Surface Study of Electroactive Polyelectrolyte Multilayers with Cytochrome c

s01-P-062
William Lizcano-Valbuena (Departamento de Química / Universidad del Valle, Santiago de Cali, Colombia), Rodrigo Abonia, Julio Arce, Paola Cuervo, Cesar Mujica Martinez, John Ortiz-Restrepo, Magdaly Tascon-Ramos
Contributions to the electrooxidation mechanism of some chalcones and its derivatives on smooth platinum

s01-P-063
Pablo Lozano-Sanchez (Bioelectrochemistry and Bioengineering Group. Universitat Rovira i Virgili, Tarragona, Spain), Ioannis Katakis
Displacement Electrochemical Immunosensors: The case of 2,4,6, trichloroanisole

s01-P-064
Ana Madurro (Institute of Chemistry, Federal University of Uberlândia, Uberlândia, Brazil), André Afonso, Luiz Goulart Filho, João Madurro, Márcia Moura, Letícia Souza
Development of Electrochemical Genosensor Based on Matrix of Poly (4-aminophenol) for Mycobacterium leprae

s01-P-065
João Madurro (Institute of Chemistry/Federal University of Uberlândia, Uberlândia, Brazil), Luiz Goulart Filho, Ana Madurro, Tatiana Silva, Letícia Souza
Use of Modified Electrodes to Detection of Dengue Virus

s01-P-066
Moustafa Malki Kasri (Instituto de Catálisis y Petroleoquímica, Madrid, Spain)
A microbial electrode for fuel cells that beats oxygen

s01-P-067
Gregory March (ITODYS, CNRS UMR 7086, Paris Denis Diderot, Paris, France), Vincent Noel, Minh-Chau Pham, Benoit Piro, Steeve Reisberg
Electrochemical Sensor Based on Electroactive SAM: Direct and Selective Detection

s01-P-068
Giovanna Marrazza (Department of Chemistry, University of Florence, Sesto Fiorentino (Firenze), Italy), Francesca Berti, Serena Laschi, Marco Mascini, Iaria Palchetti
Development of rapid affinity tests using an innovative micro-analytical flow system based on electrochemical detection

s01-P-069
Mari Luz Mena (Dept. de Química Analítica, Madrid, Spain), Jose L. Avila, Manuel Cano, Manuel Mayen, Jose Pingarron, Rafael Rodriguez-Amaro
A PVC/TTF-TCNQ composite electrode as amperometric biosensor for glucose determination.
s01-P-070
Sabino Menolasina (Universidad de Los Andes, Facultad de Farmacia y Bioanálisis, Departamento de Análisis y Control, Mérida, Venezuela), Beatriz López, Sabino Menolasina
Determination of Dopamine with an amperometric biosensor based on tyrosinase-laponita modified glassy carbon electrode

s01-P-071
Grzegorz Milczarek (Institute of Chemistry and Technical Electrochemistry, Poznan, Poland)
Electrocatalysis of NADH Oxidation Using Lignin-Modified Electrodes

s01-P-072
Ruzniza Mohd Zawawi (University of Durham, Durham, United Kingdom)
Chiral Glucose Biosensor Based on Ferrocene-Modified Carbon Nanotubes with Collagen and Collagen-Silica Hybrids Complexes

s01-P-073
Maria Aline Moura (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Maceio, Brazil), Maria Oliveira Fonseca Goulart, Eufrânio da Silva Jr., Fabiane de Abreu, Manoel Odorico de Moraes, Leticia Lotufo, Raquel Montenegro, Claudia Pessoa, Antonio Pinto, Antônio Euzébio Santana, Marne Vasconcellos
Comparative Study between Pharmacological and Electrochemical (DNA-biosensor) Methods for Understanding the Mechanism of Cytotoxic Action of a Nitro-ortho-quinone

s01-P-074
Mir Fazlollah Mousavi (Chemistry/TMU, Tehran, Iran (Islamic Republic of)), S. Zahra Bathaie
Electrochemical studies of DNA immobilization on the self-assembled monolayers and its interaction with spermidine

s01-P-075
F. Xavier Muñoz (BioMEMs Group, Dept. Micro-Nanosystems, Bellaterra, Spain), Eva Baldrich, Fco Javier del Campo, Cristina García, Roser Mas, Xavier Muñoz-Berbel
On-Chip Fabrication of Microbial Biosensors for Food Applications

s01-P-076
Laura Muresan (Department of Physical Chemistry/ Babes-Bolyai University, Cluj-Napoca, Romania), Elisabeth Csoregi, Mihaela Nistor, Ionel Catalin Popescu, Stefania Taormina
Polyamine Oxidase-Based Amperometric Biosensors for Biogenic Amines Determination in Biomedical Applications

s01-P-077
Liana Maria Muresan (”Babes-Bolyai” University, Department of Physical Chemistry, Cluj-Napoca, Romania), Sorin Dorneanu, Delia Gligor, Ionel Catalin Popescu, Codruta Varodi
Amperometric determination of ascorbic acid in fruit juices with carbon paste electrodes incorporating synthetic zeolites and Methylene Blue

s01-P-078
Monika Naumowicz (Institute of Chemistry, University of Bialystok, Bialystok, Poland), Zbigniew Artur Figaszewski
Impedance Spectroscopy Measurements of the Lipid Membranes formed from Phosphatidylserine-Ceramide Mixture

s01-P-079
Inmaculada Navarro (Departamento de Química Física, Universidad de Sevilla, Seville, Spain), Consuelo Cerrillos, Francisco Prieto
Mixed Langmuir-Blodgett Films of Gramicidin A and Phospholipids

s01-P-080
Ewa Nazaruk (Chemistry Department, Warsaw University, Warsaw, Poland), Renata Bilewicz, Grazyna Ginalska, Jerzy Rogalski
Electrodes modified with carbon nanotubes and lipidic cubic phase for biofuel cell applications
s01-P-081
Frances Neville (Institute of Membrane and Systems Biology, University of Leeds, Leeds, United Kingdom), Michael Broderick, Tim Gibson, Paul Millner
Novel nanosilicate-based biosensor surfaces

s01-P-082
Gilbert Nöll (Analytical Chemistry, Lund, Sweden), Lo Gorton, Dietmar Haltrich, Wolfgang Harreither, Roland Ludwig, Federico Tasca
Direct and Mediated Electron Transfer at Cellobiose Dehydrogenase Modified Anodes for Biofuel Cells

s01-P-083
Reza Ojani (Mazandaran University, Babolsar, Iran (Islamic Republic of)), Banafsheh Norouzi, Jahan-Bakhsh Raoof
A New Electrocatalytic Sensor for Hydrogen Peroxide Prepared by Cobalt Oxide Forming from Cobalt Hexacyanoferrate

s01-P-084
Severino Carlos Oliveira (Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Oliveira Brett, Marilene Vivan
Electrochemical Oxidation of N-phthalyglutamic Acid Imide at a Glassy Carbon Electrode

s01-P-085
Marina Osina (Moscow Power Engineering Institute, Moscow, Russian Federation)
Electrocatalytic properties and structure of composite bipolymer peroxidase-Nafion material

s01-P-086
Veronika Ostatna (Institute of Biophysics ASCR, v.v.i., Brno, Czech Republic), Emil Palecek
Aggregation of proteins in Parkinson’s disease. Changes in alpha-synuclein interfacial properties in vitro

s01-P-087
Merce Pacios (Departamento de Quimica, Universidad Autonoma de Barcelona, Bellaterra, Spain), Jordi Bartroli, Lukas Cyganek, Manel del Valle
Amperometric biosensors employing functionalized carbon nanotubes

s01-P-088
Ilaria Palchetti (Dipartimento di Chimica, Università di Firenze, Sesto Fiorentino, Italy), Serena Laschi, Giovanna Marrasza, Marco Mascini
Electrochemical Imaging of localized sandwich DNA hybridization using Scanning Electrochemical Microscopy

s01-P-089
Diego Pallarola (INQUIMAE, FCEyN, Universidad de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina), Graciela González, Graciela Priano
An Electrochemical Competitive Assay for the Detection of Endotoxins Using a Single Addressable Electrode Array System

s01-P-090
Marco Panizza (Department of Chemical and Process Engineering, University of Genoa, Genoa, Italy), Giacomo Cerisola, Marina Delucchi, Rico Ricotti, Ignasi Sires
Effect of different self-assembled monolayers for MP-11 funcionalized electrodes

s01-P-091
Felix Pariente (Quimica Analitica, Madrid, Spain), Concepcion Alonso, Tania Garcia, Lorenzo Maria Encarnacion, Monica Revenga-Parra
Electrochemical detection of DNA cleavage induced by Hydroxy-Salophen-copper complex

s01-P-092
Luciana Peixoto (Department of Biological Engineering, Braga, Portugal), Antonio Brito, Pablo Kroff, Regina Nogueira, Pier Parpot
Geobacter sulfurreducens as mediator for redox reactions: cyclic voltammetric study
s01-P-093
Katarzyna Piekielska (Analytische Chemie, Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Sabine Müller, Wolfgang Schuhmann
Impedimetric detection of hairpin ribozyme activity

s01-P-094
A. Dora R. Pontinha (Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Coimbra, Portugal), Ana Maria Brett, S. Carlos B. Oliveira
Electrochemical oxidation of metolazone at a glassy carbon electrode

s01-P-095
Ionel Catalin Popescu (Department of Physical Chemistry, University Babes Bolyai, Cluj Napoca, Romania), Liana Maria Muresan, Lidia Varvari
Determination of antioxidant capacity in wines and fruit juices using an amperometric biosensor

s01-P-096
Julija Razumiene (Department of Bioanalysis of Institute of Biochemistry, Vilnius, Lithuania), Irina Bachmatova, Valdas Laurinavicius, Liucija Marcinkeviciene, Ieva Tolusyte, Edita Voitechovic
Investigations of PQQ-ADH Inhibition by CO. Suggestion for Amperometric CO Detection Method

s01-P-097
Julija Razumiene (Department of Bioanalysis of Institute of Biochemistry, Vilnius, Lithuania), Vidute Gureviciene, Laimonas Karvelis
Application of Nicotinic Acid 6-Hydroxylase from Sinorhizobium Sp. L-1 for Amperometric Determination of Nicotinic acid and Nicotinamide

s01-P-098
Mark Rodgers (University of Leeds, Leeds, United Kingdom), John Findlay, Paul Millner
Developing affinity sensors for low molecular weight hydrophobic molecules using lipocalins and other binding proteins

s01-P-099
Amit Ron (Department of Physical Electronics Tel Aviv University, Tel Aviv, Israel), Dafna Benayahu, Nick Fishelson, Ragini Raj Singh, Yosi Shacham-Diamand, Irena Shur, Rina Socher
Dielectric Spectroscopy for Cell-based screening analysis

s01-P-100
Eva Samcova (Institute of Biochemistry, Cell and Molecular Biology, Charles University in Prague, Prague 10, Czech Republic), František Duška, Petr Tůma
Determination of Ammonia, Creatinine and Inorganic Cations in Urine using CE

s01-P-101
Marta Sánchez-Paniagua (Sección Departamental de Química Analítica, Facultad de Farmacia U.C.M., Madrid, Spain), Enrique López-Cabarcos, Beatriz López-Ruiz, Faleh Tamimi
Organic Phase Amperometric Biosensors based on Brushite

s01-P-102
Robert Valentin Sandulescu (Analytical Chemistry Dept., “Iuliu Hatieganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania), Ede Bodoki, Cecilia Cristea, Ioan Lazar, Iuliu Marian
The design and electroanalytical properties of new screen printed electrodes

s01-P-103
Woonsup Shin (Department of Chemistry, Interdisciplinary Program of Integrated Biotechnology and Inorganic and Biological Materials Center of BK21, Sogang University, Seoul, Korea), Harishchandra D. Jirimali, Jung Ok Lee, Rajaram K. Nagarale, Durai Saravanakumar, Jieun Song
Synthesis of Enzyme Incorporated Viologen Polymer Composite for the Platform of Electrochemical Reductions Catalyzed by Enzymes
s01-P-104
Halyna Shkil (Analytische Chemie - Elektroanalytik & Sensorik, Ruhr-Universität Bochum, Bochum, Germany), Konstytyn Dmytruk, Mykhailo Gonchar, Dmitrii Guschin, Wolfgang Schuhmann, Andriy Sibirny, Oleh Smutok, Leonard Stoica
Mediatorless biosensors for L-lactate detection based on genetically modified yeast cells of Hansenula polymorpha

s01-P-105
Anna-Maria Spehar-Délèze (Biomedical Diagnostic Institute, Dublin City University, Dublin, Ireland), Tia E. Keyes, Yann Pellegrin
Electrochemiluminescent dual metal centre ruthenium polymer

s01-P-106
Gabriella Stefania Szabo (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca, Romania), Adrian Nicoara, Lidia Varvari
Kinetic investigation of reaction between DPPH• and Trolox employed on amperometric determination of antioxidant activity

s01-P-107
Raphaël Trouillon (Department of Bioengineering, Imperial College, London, United Kingdom), Christine Cheung, Danny O’Hare, Bhavik A. Patel
Comparative Study of Poly(styrene-sulfonate)/poly(L-lysine) and fibronectin as Biofouling-Preventing Layers in Dissolved Oxygen Electrochemical Measurements

s01-P-108
Graziella Liana Turdean (Physical Chemistry Department, “Babes-Bolyai” University, Cluj-Napoca, Romania), Ionel Catalin Popescu
Nanostructured Assemblies for Glucose and Phenol Detection

s01-P-109
Vladimír Vetterl (Center for Dental and Craniofacial Research, Faculty of Medicine, Masaryk University, Brno, Czech Republic), Sonia Bartáková, Lukáš Fojt, Stanislav Hason, Ema Jancarlová, Patrik Prachář, Raimo Silvennoinen, Ludik Strašák, Jiri Vaník, Jana Šoukalová
Electrochemical and optical approaches in dentistry

s01-P-110
Vetterl Vladimír (Institute of Biohysics, v.v.i, Academy of Sciences of the Czech Republic, Brno, Czech Republic), Lukáš Fojt, Miroslav Fojta, Stanislav Hason
Two-dimensional condensation of nucleic acid components and oligonucleotides

s01-P-111
Xiaoju Wang (Laboratory of Inorganic Chemistry, Process Chemistry Centre, Åbo Akademi University, Turku, Finland)
Exploration of utilisation of reticulated vitreous carbon foam in the construction of a biofuel cell cathode

s01-P-112
Franziska Wegerich (University of Potsdam, Analytical Biochemistry, Golm, Germany)
Engineered cytochrome c mutants for application on superoxide sensing electrodes

s01-P-113
Benjamin Wilson (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Espoo, Finland), Kyosti Kontturi, Markus B. Linder
Characterisation and Effect of Mediators on a Hydrophobin–Laccase Hybrid Adhered to a Graphite Electrode Surface

s01-P-114
Franco Mazzei (Dipartimento di Studi di Chimica e Tecnologia delle Sostanze Biologicamente Attive, Roma, Italy)
Scleroglucan/borax gel based immobilization: a new tool for protein electron transfer characterization
Symposium 2: Molecular-Level Aspects of Interfacial Electrochemistry: State-of-the-Art, Spectroscopic Techniques and Theoretical and Computational Methods

s02-P-001
Rafael Andreu (Department of Physical Chemistry, University of Sevilla, Seville, Spain), Juan Jose Calvente, Angel Cuesta, Adrian Granero, Willem H. Mulder, Pablo Ramirez
Potential of zero charge of Au(111) modified with [omega]-mercaptoalkanoic acid monolayers.

s02-P-002
Genesis Ngwa Ankah (Max-Planck-Institut für Eisenforschung, Duesseldorf, Germany), Frank U. Renner, Michael Rohwerder
Fundamental Investigations of the Corrosion of Binary Alloys

s02-P-003
Lucía Avalle (Facultad de Matematica, Astronomia y Fisica, Universidad Nacional de Cordoba, Cordoba, Argentina), Jones Harold, Elizabeth Santos, M. Lorena Valle
Riboflavin and Flavin-Mononucleotide Adsorption on Ag(111) and Au(111) Single Crystal Electrodes

s02-P-004
Lucía Avalle (Facultad de Matematica, Astronomia y Fisica, Universidad Nacional de Cordoba, Cordoba, Argentina), Hutaf M. Baker, M. Abdel-Halim Hamzeh, Harold Jones, Elizabeth Santos
Comparative Studies of the Adsorption of Cysteamine, Mercaptopropionic Acid and L-Cysteine on Ag(111)

s02-P-005
Lucía Avalle (Facultad de Matematica, Astronomia y Fisica, Universidad Nacional de Cordoba, Cordoba, Argentina), Harold Jones, Elizabeth Santos, M. Lorena Valle
Interaction of Riboflavin and Flavin-Mononucleotide with Derivatized Surfaces of Ag(111)

s02-P-006
Helmut Baltruschat (Institute for Physical and Theoretical Chemistry, University of Bonn, Bonn, Germany), F. Hausen, M. Nielinger, N. Podghainiy
Influence of Adsorbates and Potential on Friction Forces Studied by AFM

s02-P-007
Ipek Becerik (Chemistry Department, Istanbul Technical University, Istanbul, Turkey)
Artificial Neural Network Application on an Electrochemical Process

s02-P-008
Dezso Boda (Department of Physical Chemistry, University of Pannonia, Veszprem, Hungary), Dirk Gillespie, Attila Malasics
Iterative grand canonical Monte Carlo algorithms to compute chemical potentials for prescribed densities

s02-P-009
Nicky Bogolowski (Institut für Physikalische und Theoretische Chemie, Bonn, Germany), Gary Attard, Helmut Baltruschat, Siegfried Ernst, Sharon Huxter, Tina Nagel
The surface activity of selenium modified Ru-electrodes for the ORR and the examination of Ru quasi single crystal electrodes with Cu-UPD

s02-P-010
José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva
Effective Desorption of Long Chain n-Alkanethiol SAMs on Au by a New Electrochemical Procedure

s02-P-011
Pilar Carro (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), Francesc Illas, Roberto C Salvarezza, Daniel Torres
Are the Ag(111) and Au(111) Surfaces Reconstructed upon Thiol Adsorption? A Density Functional Study
s02-P-012
José Manuel Delgado (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco, José Manuel Orts, Juan Manuel Pérez, Antonio Rodes
An ATR-SEIRAS and SERS Study of the Adsorption of Anions from Glycolic and Glyoxylic Acids on Gold Thin-Film Electrodes

s02-P-013
Matteo Duca (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Marc Koper
Electrocatalytic reduction of nitrite on various metals. A preliminary mechanistic study.

s02-P-014
Yara El Harfouch (Laboratoire de Spectrometrie Ionique et Moleculaire, LASIM UMR CNRS 5579, Univeriste Claude Bernard Lyon1, Villeurbanne, France), Guillaume Bachelier, Emmanuel Benichou, Pierre-Francois Brevet, Leonard E. A. Berlouis, Christian Jonin, Lin Pu, Isabelle Russier-Antoine
A Polarization study using Second Harmonic Generation response of silver nanoparticles at the liquid/liquid interface: From particles to continuous film

s02-P-015
María Escudero (Instituto de Química Física “Rocasolano”, CSIC, Madrid, Spain), Angel Cuesta
Electrodeposition of copper and palladium on cyanide-modified Pt(111) electrodes

s02-P-016
Jonathan Florez (Dpto. Química Física, Universidad de La Laguna, La Laguna, Spain), Gonzalo García, Elena Pastor, Gabriel Planes, José Luis Rodríguez
Methanol and CO Electrooxidation at Bimetallic PtX Mesoporous Electrodes

s02-P-017
Stefan Frank (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Christoph Hartnig, Wolfgang Schmickler
Spiral Adsorbate Structures on Monoatomic Nanowire Electrodes

s02-P-018
Daniel García-Raya (Química Física y Termodinámica Aplicada, Córdoba, Spain), Manuel Blázquez, Rafael Madueño, Teresa Pineda, José Manuel Sevilla
Self-assembled monolayers of octanedithiol (ODT) on Au(111) using a lyotropic crystalline medium

s02-P-019
Emmanuel Garnier (Equipe d’Electrocatalyse, Laboratoire de Catalyse en Chimie OrganiqueUMR CNRS 6503 - Université de Poitiers, Poitiers CEDEX, France), Antonio Aldaz, Sylvain Brimaud, Christophe Coutanceau, Juan M. Feliu, Jean-Michel Léger, José Solla-Gullon
Surface controlled Pt nanocrystals

s02-P-020
Vitali Grozovski (Instituto de Electroquímica - Universidad de Alicante, Alicante, Spain), Víctor Climent, Juan M. Feliu, Enrique Herrero
Formic acid oxidation on stepped surfaces studied by pulsed voltammetry

s02-P-021
Guido Grundmeier (Technical and Macromolecular Chemistry, Department of Chemistry, University of Paderborn, Paderborn, Germany), Markus Valtiner
Nanoscopic Understanding of the Surface Chemistry and Stability of Polar ZnO(0001)-Zn Surfaces in Aqueous Solutions

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Ikutaro Hamada (The Institute of Scientific and Industrial Research (ISIR), Osaka University, Osaka, Japan), Yoshiyada Morikawa
Density-Functional Theoretical Study of Hydrogen on Pt(111) in an Electrochemical Environment
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Sandrine Jakab (CEA Marcoule, Bagnols sur Ceze, France), Claude Gabrielli, Hubert Perrot, Sebastien Picart, Bernard Tribollet
Study of the precipitation of hydroxide/oxide of lanthanide and their nucleation/growth kinetic by using the quartz crystal microbalance

s02-P-024
Palle Jensen (Department of Chemistry, Lyngby, Denmark), Qijin Chi, Jens Ulstrup
Enhancement of Long-range Protein Interfacial Electron Transfer by the Incorporation of Metallic Nanoparticles into Surface Molecular Assemblies

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Vladislava Jovanovic (University of Belgrade, ICTM Institute of electrochemistry, Belgrade, Serbia)
The Role of Carbon Functional Groups in Methanol Oxidation at Supported Pt Catalysts

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khurram Saleem Joya (Catalysis, Surfaces and Materials (CASC), Leiden Institute of Chemistry (LIC), Gorlaeus Laboratory, Leiden University, Leiden, Netherlands), H.J.M. de Groot, M.T.M. Koper
Molecular Catalyst for Dioxygen Generation by Electrocatalytic Water Splitting

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Takashi Kakiuchi (Department of Energy and Hydrocarbon Chemistry, Kyoto University, Kyoto, Japan), Yuko Hirohata, Ryoichi Ishimatsu, Yuki Kitazumi, Naoya Nishi
Role of Ion-pairing in Determining the Electrochemical Properties of the Interface between a Hydrophobic Ionic Liquid and an Aqueous Electrolyte Solution

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In-situ Infrared Spectroscopy and Electrochemical Quartz Microbalance Investigations of Buffer and S-Layer Protein Adsorption Processes

s02-P-029
Intissar Kherbach (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain), Victor Climent, Juan M. Feliu
The Influence of CO₂ Reduction on Hydrogen Adsorption and Evolution on Pt Single Crystal Electrodes

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Gabriela Kissling (School of Chemistry, University of Bristol, Bristol, United Kingdom), David J. Fermin
Self-Assembled Monolayers at n-CdS Single Crystal Electrodes

s02-P-031
Marc Koper (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Otto Berg, Isja Dominicus, Ludo Juurlink, Janneke van der Niet
Does water dissociate at stepped platinum surfaces? A combined UHV and electrochemical study

s02-P-032
Andrey Koverga (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Stefan Frank, Marc T. M. Koper
Water Adsorption and Dissociation on Stepped Platinum Surfaces: a DFT Study

s02-P-033
Stanley Lai (Leiden Institute of Chemistry, Leiden University, Leiden, Netherlands), Marc Koper
Electrocatalytic oxidation of ethanol and acetaldehyde on platinum single crystal surfaces

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Valentina Lazarescu (Institute of Physical Chemistry Ilie Murgulescu, Bucharest, Romania), Guenther Goetz, Elizabeth Santos, Rares Scurtu, Ana Maria Toader, Elena Volanschi
Potential-induced conformational changes in α-CN-terthiophene thiolate film on GaAs(110)
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Jay Leitch (Department of Chemistry, University of Guelph, Guelph, ON, Canada), John Dutcher, Robert Faragher, Julia Kunze, Jacek Lipkowski, Renate Naumann, Adrian Schwan, Knoll Wolfgang
PM-IRRAS studies of a novel tether molecule for constructing tethered bilayer lipid membranes (t-BLMs) on gold electrode surfaces

s02-P-036
Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Shu Chen, Youping Chu, Jufang Zheng
Elimination of Oxidation and Decomposition by Sn(II) in the SERS Study of Reactive Biomolecules

s02-P-037
German Lopez-Perez (Department of Physical Chemistry, Faculty of Chemistry, University of Sevilla, Seville, Spain), Rafael Andreu, Juan Jose Calvente, Domingo Gonzalez-Arjona
Estimation of the Activation Parameters on Electrode Reactions: Temperature Effect for the Electroreduction of the Ion Cr(III)

s02-P-038
Chun'an Ma (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China), Litao Chen, Ting Liu
Density Functional Theory Study of CO Adsorption on WC(001) and Pt/WC(001)

s02-P-039
Roman Manzhos (Institute of problems of chemical physics, Russian Academy of Sciences, Chernogolovka, Moscow region, Russian Federation), Alexander Krivenko, Boris Podlovchenko
A Study of Oxygen Adsorption on Polycrystalline Platinum Electrode by Laser-Induced Thermal Jump of Potential

s02-P-040
Igor Medved (Department of Physics, Constantine the Philosopher University, Nitra, Slovakia), Dale A. Huckaby
A microscopic theory of voltammogram spikes due to phase transitions at electrode-electrolyte interfaces

s02-P-041
Fabrice Micoud (Laboratoire d’Electrochimie et de Physico-chimie des Matériaux et des Interfaces, Saint Martin d’Hères, France), Antoine Bonnefont, Marian Chatenet, Katharina Krischer, Frédéric Maillard
CO electrooxidation on Pt-W surfaces

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Maria Montes de Oca (Physical and Theoretical Chemistry, University of Bristol, Bristol, United Kingdom), David Fermín
Surface reactivity of bi-metallic Au-Pd nanostructures

s02-P-043
Komarova Natalya (Institute of problems of chemical physics, Russian Academy of Sciences, Chernogolovka, Russian Federation), Alexander Krivenko
Adsorption of Camphor and Sodium Kryptate at Carbon Nanostructured Electrodes

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Eslam Nouri (Centre of Pharmacy, University of Groningen, Groningen, Netherlands), Rainer Bischoff, Andries Bruins, Hjalmar Permentier
Immobilized hemin as a suitable electrocatalyst in the mimicry of Cytochrome P450

s02-P-045
Maja Obradovic (Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Gregory Jerkiewicz, Jean Lessard
Adsorption of Toluene, Ethylbenzene and Styrene on Pt(111) in Aqueous HClO₄ Electrolyte
s02-P-046
Narumi Ohta (Polymer Electrolyte Fuel Cell Cutting-Edge Research Center (FC-Cubic), National Institute of Advanced Industrial Science and Technology (AIST), Tokyo, Japan), Ichizo Yagi
Surface-Enhanced Raman Scattering (SERS) at Gold Electrode Surfaces Comprised of Plasmonic Crystal Structure

s02-P-047
Cristiane Oliveira (Universidade Federal de São Carlos, São Carlos, Brazil), M.C. Lopes, E.C. Pereira
Insights on Metal Electrodeposition inside the Porous Anodic Alumina from a Computational Approach

s02-P-048
José Manuel Orts (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco
B3LYP/LANL2DZ,6-311++G(d,p) Study of Water Adsorption on Pt(111), Pt(100) and Pt(110) Surfaces. Effect of Applied Electric Field.

s02-P-049
José Manuel Orts (Departamento de Química Física e Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Raquel Blanco, José Manuel Delgado, Juan Manuel Pérez, Antonio Rodes
Anion Adsorption from Fluoroacetic Acids on Gold Thin-Film Electrodes: a B3LYP and in-situ Vibrational Spectroscopy Study.

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Minoru Otani (Institute for Solid State Physics, The University of Tokyo, Kashiwa, Japan), Ikutaro Hamada, Tamio Ikeshoji, Yoshitada Morikawa, Yasuharu Okamoto, Osamu Sugino
First Principles Simulations on Structure of the Water/Pt Interface under Negative Potential

s02-P-051
Carlos Pereira (CIQ-UP Departamento de Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), João Borges, Cátia Carreira, Elisa Pereira, Fernando Silva
Study of DNA and gold nanoparticles interaction at gold surfaces

s02-P-052
Kay Pötting (Institut für Theoretische Chemie, Ulm, Germany), Renat Nazmutdinov, Kay Pötting, Elisabeth Santos, Patricio Velez
Theoretical investigations of the electronic properties of L-Cysteine overlayers on Ag(111)

s02-P-053
Ksenija Popovic (ICTM-Institute of Electrochemistry, University of Belgrade, Belgrade, Serbia), Jelena Lovic, Amalija Tripkovic
Activity of Carbon Supported Pt,Ru Nanocatalyst in CO Oxidation

s02-P-054
Francisco Prieto (Departamento de Química Física, Universidad de Sevilla, Sevilla, Spain), Antonio Aldaz, Juan M Feliu, César Prado, Antonio Rodes
In-situ Infrared Spectroscopy Study of Adenine Adsorption at Gold Electrodes

s02-P-055
Paola Quaino (Programa de Electroquimica Aplicada e Ingenieria Electroquimica (PRELINE), Facultad de Ingenieria Quimica, Universidad Nacional del Litoral, Santa Fe, Argentina), Harald Ibach, Kay Pötting, Wolfgang Schmickler
Kinetic Monte Carlo Simulations: Step Fluctuations on Silver Electrodes

s02-P-056
Bin Ren (Department of Chemistry, Xiamen University, Xiamen, China), Ping-Ping Fang, Qun-Ping Lai, Jian-Feng Li, Xiao-Bing Lian, Zhong-Qun Tian
Spectroelectrochemical Flow Cell with Temperature Control for Studying the Electrocatalytic Systems with Surface-enhanced Raman Spectroscopy
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Encarnación Reyes (Química Física y Termodinámica Aplicada, Cordoba, Spain), Manuel Blázquez, Daniel García-Rayas, Rafael Madueño, Teresa Pineda, José Manuel Sevilla
Formation of a self-assembled monolayer of Benzenedimethanediithiol on Au(111)

s02-P-058
José Luis Rodríguez (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), César Barbero, Mariano Bruno, Gonzalo García, Elena Pastor, Gabriel Planes
Probe Beam Deflection Studies of Catalyst Materials for Fuel Cells

s02-P-059
Tavo Romann (Institute of Chemistry, University of Tartu, Tartu, Estonia), Enn Lust, Mart Väärtnõu
In Situ Infrared Spectroscopic Studies of Water and Ethanol on Bismuth Single Crystal Surfaces

s02-P-060
Victor Safonov (Faculty of Chemistry, Moscow State University, Moscow, Russian Federation), Maria Choba, Aleksandr Krivenko, Roman Manzhos
The effect of oxygen chemisorption on the EDL structure and adsorption of adamantanol-1 on a silver electrode (according to the data of potential shifts induced by laser heating and traditional electrochemical methods

s02-P-061
Ave Sarapuu (Institute of Chemistry, University of Tartu, Tartu, Estonia), Aarne Kasikov, Leonard Matisen, Kaido Tammeveski
Electrochemical reduction of oxygen on gold-supported thin Pt films in acid solutions

s02-P-062
A.K. Satpati (Bhabha Atomic Research Centre, Mumbai, India), T. Mukherjee, P. V. Ravindran, S. Sahoo, G. Venkteswaran
Electrochemical Behaviour of Quercetin in Various Media on HMDE, Glassy Carbon and Carbon Paste Electrode

s02-P-063
Elena Stenina (Department of Chemistry, Moscow State University, Moscow, Russian Federation), Liana Sviridova
Adsorption of cation complexes of La$^{3+}$ and Th$^{4+}$ with cryptand [2.2.2.] at the electrode/solution interface

s02-P-064
Germano Tremiliosi-Filho (Instituto de Química de Sao Carlos/Universidade de Sao Paulo, Sao Carlos, SP, Brazil), Manuel de Jesus Santiago Farias
Anomalous effects on the intensity of vibrational bands in the electrochemical interface Pt(111)–CO followed by in situ FTIR spectroscopy

s02-P-065
Amalija Tripkovic (ICTM-Institute of Electrochemistry, University of Belgrade, Belgrade, Serbia), Jelena Lovic, Ksenija Popovic
Formic Acid Oxidation on Pt$_2$Ru$_3$ Nanocatalyst Modified by Bi

s02-P-066
Dusan Tripkovic (ICTM/Department of Electrochemistry, Belgrade, Serbia), Nenad Markovic, Vojislav Stamenkovic, Dusan Strmcnik, Dennis van der Vliet
Active sites in the CO oxidation on Pt(hkl)

s02-P-067
Yoshiharu Uchimoto (Kyoto University, Graduate School of Human and Environmental Studies, Kyoto, Japan), Tomokazu Fukutsuka, Zempachi Ogumi, Hiroaki Yoshida
X-ray absorption spectroscopic Study for Oxygen Reduction Reaction and Degradation Mechanism of PT/C Catalyst
s02-P-068
Lidija Valek (Department of Electrochemistry, Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Ana Belčak, Nikolina Bukovac, Sanja Martinez, Jasenka Piljac-Žegarac
Electrochemical detection of antioxidants in fruit teas

s02-P-069
Monika Valisko (Department of Physical Chemistry, University of Pannonia, Veszprem, Hungary), Dezso Boda, Douglas Henderson, Timea Nagy
The behavior of 2:1 and 3:1 electrolytes at polarizable interfaces

s02-P-070
Klaus Wandelt (University of Bonn, Institute of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Christian Schlaup
Ultrathin copper sulfide films on Au(100): An ECSTM study

s02-P-071
Klaus Wandelt (University of Bonn, Institute of Physical and Theoretical Chemistry, Bonn, Germany), Peter Broekmann, Pham Duc Thanh
Molecular order and stability of viologen layers under non-equilibrium conditions

s02-P-072
Hanchun Wang (Institute for Physical and Theoretical Chemistry, Universität Bonn, Bonn, Germany)
Determination of rate determining step and activation volume for CO oxidation

s02-P-073
Ichizo Yagi (FC-Cubic, AIST, Tokyo, Japan), Masaki Chiba, Kohei Uosaki
Nonlinear Chiroptical Spectroscopy at Naturally Chiral and Chiral Molecule-modified Metal Surfaces

s02-P-074
Fethi Bedioui (UMR CNRS 8151 / U INSERM 640, Pharmacologie Chimique et Génétique, Paris, France), José Zagal, Tebello Nyokong, Evelyn Villagra, Carlos Canales, Mamie Sancy, Maritza Paez, Juan Costamagna
Tuning the Redox Properties of Metal Macrocyclcics for Maximum Electrocatalytic Activity: Oxidation of Glucose

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Lourdes Agüí (Department of Analytical ChemistryFaculty of Chemistry University Complutense of Madrid, Madrid, Spain), José M. Pingarrón, Paloma Yáñez-Sedeño
Electrochemical detection of nitromusk fragrances

s03-P-002
Francisco Aguiar (Chemistry Dept., University of Durham, Durham, United Kingdom), Martin Bryce, Ritu Kataky
Characterization of charge transfer on Au surfaces modified with molecular wires using potentiodynamic impedance spectroscopy and electrochemistry

s03-P-003
Marta Barbadillo Perez de Ayala (Quimica Analitica, Madrid, Spain), Elena Casero, Maria Encarnacion Lorenzo, Felix Pariente, Dolores Petit-Dominguez, Luis Vazquez
Design of a new organic-inorganic hybrid composite material based on gold nanoparticles for electrochemical sensing

s03-P-004
Keith Baronian (School of Applied Sciences, Christchurch Polytechnic Institute of Technology, Christchurch, New Zealand), Alison Downard, Benjamin Flavel, David Garrett, Joseph Shapter
Chemically assembled vertically aligned carbon nanotubes on a planar carbon substrate
s03-P-005
Madalina Maria Barsan (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal), Christopher M. A. Brett, Monica Florescu
Development and Characterization of a New Conducting Carbon Composite Electrode

s03-P-006
Fethi Bedioui (UMR CNRS 8151, U INSERM 640, Pharmacologie Chimique et Génétique, Paris, France), Guy Chabot, Sophie Griveau, Daniel Scherman, Johanne Seguin
In Vivo Electrochemical Detection of Nitroglycerin-Derived NO in Tumor-Bearing Mice

s03-P-007
Veronica Bueno (Department of Chemistry, Materials and Chemical Engineering, Politecnico di Milano, Milano, Italy), Luciano Lazzari, Marco Ormellese, Paolo Spinelli
Characterization of metal nano-surfaces through the study of the fundamental electrochemistry of the double layer

s03-P-008
Hermes Carrero (Departamento de Química, Universidad Simón Bolívar, Caracas, Venezuela), Oscar Díaz, Lennys Fernández, Jorge Saturno, Danny Valera
Nanoparticles for Stripping Voltammetry in Flow Systems

s03-P-009
Mario Castaño-Álvarez (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Agustín Costa-García, M. Teresa Fernández-Abedul, Ana Fernández-la-Villa, Diego F. Pozo-Ayuso
Single- and dual-channel PDMS microchip performance with electrochemical detection

s03-P-010
Álvaro Colina (Departamento de Química/Universidad de Burgos, Burgos, Spain), Patrick R. Unwin
Electrosynthesis and characterization of ultrathin nanostructured films of Polyaniline on Highly Oriented Pyrolytic Graphite

s03-P-011
Martin M Davila (Universidad Autonoma de Puebla, Puebla, Mexico), Maria Elizalde, Socorro Flores
Study of Flavonoids on Multi-Walled Carbon Nanotubes

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Yuliya Dzyazko (V.I. Vernadskii Institute of General & Inorganic Chemistry, Kiev, Ukraine), Marina Chaikina
Admittance spectra of nanosized mechanically activated mixtures of apatite composition

s03-P-013
Aidan Fagan Murphy (ITT Dublin, Dublin, Ireland)
Electrochemical Properties of Krebs Type Heteropolyanions in Solution and in the Immobilised State

s03-P-014
Luigi Falcìola (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Francesca Oberperfler, Stefano Trasatti
Electroanalytical determination of carboxylic acids

s03-P-015
Luigi Falcìola (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Francesca Delfino, Patrizia Mussini, Manuela Rossi, Mirko Viana
Ferricinium/ferrocene couple as a reference redox system for aqueous-organic mixed solvents

s03-P-016
Claire Fave (ITODYS CNRS UMR 7086 University of Paris 7, Paris, France), Jean Christophe Lacroix, Yann Leroux, Gaelle Trippé, Dodzi Zigah
Atomic contacts via Electrochemistry in water/cyclodextrin media: a step toward protected atomic contacts.
s03-P-017
Ana Fernández-la-Villa (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Mario Castaño-Álvarez, Agustín Costa-García, M. Teresa Fernández-Abedul, Diego F. Pozo-Ayuso
CNT-modified gold wire electrode to enhance the sensitivity on microchip electrophoresis

s03-P-018
Raquel García-González (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), M. Teresa Fernández-Abedul
Amine-Functionalised CNTs for Sensitivity Enhancement of DNA-Analysis with Gold Screen-Printed Plectrodes

s03-P-019
Delia Gligor (Department of Physical Chemistry, “Babes-Bolyai” University, Cluj-Napoca, Romania), Yusuf Dilgin, Lo Gorton, Ionel Catalin Popescu
Electrocatalytic Detection of NADH Using Glassy Carbon Electrodes Modified With a New Poly-Phenothiazine Derivative

s03-P-020
Agustín Gonzalez Crevillén (Química Analítica, Facultad de Química, Universidad de Alcalá, Alcalá de Henares, Spain), Alberto Escarpa, Cristina González, Martin Pumera
Electrocatalytic Detection of NADH Electrochemical Detectors in the Natural Antioxidants Determination on Microfluidic Platforms

s03-P-021
Laura Gonzalez-Macia (Sensor and Separations Group, National Centre for Sensor Research, School of Chemical Science, Dublin City University, Dublin, Ireland), Anthony J. Killard, Aoife Morrin, Malcolm R. Smyth
Polyaniline Nanoparticles for Hydrogen Peroxide Sensing

s03-P-022
Carla Gouveia-Caridade (Departamento de Química/Universidade de Coimbra, Coimbra, Portugal), Hans-Dieter Liess, Christopher M. A. Brett
Carbon Film Resistor Electrodes: Electrochemical and Surface Morphological Characterization

s03-P-023
Sophie Griveau (Chemical and Genetical Pharmacology Laboratory, INSERM, U640, CNRS, UMR 8151, Paris, France), Fethi Bedioui
Investigation of the Spontaneous Adsorption of Diazonium Salts on Gold by Scanning Electrochemical Microscopy

s03-P-024
Jee-Hoon Han (Department of Chemistry/Yonsei University, Seoul, Korea)
HPLC Determination of Sugars with Inhibited Electrogenerated Chemiluminescence Based on Mesoporous Platinum Electrode

s03-P-025
Olivier Henry (Department of Chemical Engineering/Universitat Rovira i Virgili, Tarragona, Spain), Malisweska Agnieszka, Giara K. O’ Sullivan, Jörg Strutwolf
Controlled surface nanostructuring of electrochemical DNA sensors by selective electrodeorption of sacrificial alkanethiols at polycrystalline gold electrodes

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Lucas Hernandez (Analytical Chemistry, Madrid, Spain), Elias Blanco, Pedro Hernandez, Jose Vicente
Selective detection of molecules with different size by gold electrode modified with di-n-octadecyl-disulphide. Application to vitamin B2 determination

s03-P-027
Lucas Hernandez (Analytical Chemistry, Madrid, Spain), Pedro Hernandez, Jose Vicente, Carmen Vilaseca
Determination of 2-methoxy-5-nitroaniline by adsorptive voltammetry
s03-P-028
Shahzad Imar (ITT Dublin, Dublin, Ireland), Timothy McCormac
Employment of the Layer by Layer Technique for the Immobilisation of Dawson Type Heteropolyanions

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Shin-ya Kishioka (Department of Chemistry, Nagaoka University of Technology, Nagaoka, Niigata, Japan), Yoshio Nosaka
Electrochemistry on flat gold film electrodes prepared by template-stripped methods

s03-P-030
Chrystelle Lebouin (Laboratoire d’Électrochimie et de Physicochimie des Matériaux et des Interfaces, Saint Martin d’Hères, France), René Faure, Pierre Millet, Yvonne Soldo Olivier
A study of two palladium - hydrogen nanosystems: epitaxial nanofilms on Pt(111) and nanoparticles

s03-P-031
Christine Lefrou (Grenoble INP, Saint Martin d’Hères, France), Renaud Cornut, Mathieu Etienne
New and precise way to extract Irreversible Substrate Kinetics parameter with SECM

s03-P-032
Kyung-Rae Lim (Department of Chemistry/Yonsei University, Seoul, Korea), Byung-Kun Kim
Electrochemical and Colorimetric Detection of Cholera Toxin Based on Galactose-Modified Electrode and Galactose-Stabilized Gold Nanoparticles

s03-P-033
Edilson M. Pinto (Faculdade de Ciências, Universidade de Coimbra, Coimbra, Portugal), Carla Gouveia-Caridade, Christopher M. A. Brett, David M. Soares
Electrochemical characterization of carbon films on piezoelectric quartz crystals

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Christine Malmgren (Mid Sweden University/Engineering Physics, Sundsvall, Sweden)
Behavioral effects of production parameters on DSA®

s03-P-035
Graciela Martinez-Paredes (Departamento de Química Física y Analítica, Universidad de Oviedo, Oviedo, Spain), Maria Begoña Gonzalez-Garcia
In-situ Electrochemical Generation of Gold Nanostructured SPCEs as Transducers of Genosensors

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Mariko Matsunaga (Consolidated Research Institute for Advanced Science and Medical Care, Waseda University, Tokyo, Japan), Takuya Nakanishi, Tetsuya Osaka, Daisuke Yamamoto
Field Effect Transistor with SiO₂ Gate Modified with Au through Thiol-Terminated Self-Assembled Monolayer

s03-P-037
Mir Fazlollah Mousavi (Chemistry/TMU, Tehran, Iran (Islamic Republic of))
SECM Studies of Ion transport at nanostructured polyaniline film

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Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Lucrezia L. Dieni, Torquato Mussini, Manuela Rossi
Voltammetric and Potentiometric Characterization of Model Redox Couples for Intercomparing Scales of Potentials and pH in Mixed Aqueous-Organic Solvents

s03-P-039
Patrizia Romana Mussini (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Armando Gennaro, Abdirisak Ahmed Isse, Manuela Rossi
Potentialities and Peculiarities of Polycrystalline Silver as an Electrocatalytic Material for Organic Halide Detection
s03-P-040
Vincent Noel (ITODYS, CNRS UMR 7086, Paris Denis Diderot, Paris, France), Gregory March, Minh-Chau Pham, Benoit Piro, Steeve Reisberg
Naphtoquinone derivatives grafted at carbon electrode surface by diazonium electroreduction

s03-P-041
Alain Pailleret (CNRS-UPR 15 LISE, Université Pierre et Marie Curie, Paris, France)
Surface electrical behaviour of amorphous carbon nitride based electrode materials at the nanometric scale

s03-P-042
José M. Pingarrón (Department of Analytical Chemistry, Faculty of Chemistry University Complutense of Madrid, Madrid, Spain), Javier Manso, M. Luz Mena, Paloma Yáñez, Sedeño
Bi-enzyme amperometric biosensor using a gold nanoparticle-carbon nanotubes composite electrode for the determination of glucosinolates in foods

s03-P-043
Mamantos Prodromidis (Department of Chemistry, University of Ioannina, Ioannina, Greece), Dimitrios Gournis, Kyriaki Kardimi
PtRu Nanoparticles Supported on Multi-wall Carbon Nanotubes as Electrocatalysts of Hydrogen Peroxide

s03-P-044
Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Université Denis Diderot Paris 7, Paris, France), Claire Fave, Olivier Fontaine, Jalal Ghilane, Jean-Christophe Lacroix, Pascal Martin
Unusual behaviour of electroactive room temperature ionic liquid

s03-P-045
Monika Refczynska (Department of Chemistry, Warsaw University, Warsaw, Poland), Magdalena Skompska
Photoelectrochemical and spectroscopic studies of CdS obtained electrochemically on Au/poly(3,4-dioctyloxythiophene)

s03-P-046
Reka Repanszki (Materials Department, Atomic Energy Research Institute, Budapest, Hungary), Zsolt Kerner, Gabor Nagy
Adsorption of Fission Products on Structural Materials from the Primary Circuit

s03-P-047
Gustavo Rivas (Departamento de Fisicoquímica, Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Laura Galicia, Alejandro Gutiérrez, Silvia Gutiérrez, Marcela Rodríguez, José Sandoval
Electrochemical sensors for the quantification of uric acid and dopamine based on the use of glassy carbon electrodes modified with multi-walled carbon nanotubes

s03-P-048
Marco Sampietro (Dipartimento di elettronica - Politecnico di Milano, Milano, Italy), Marco Carminati, Giorgio Ferrari, Fabio Gozzini
Integrated Current Probe for Electrochemical Measurements on Nanosamples

s03-P-049
Ricardo Santos (Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal), Rodney Andrews, Rui Barbosa, Greg Gerhardt, Peter Huettl, João Laranjinha, Cátia Lourenço, Ana Piedade, Francois Pomereau
A Comparative Study of Carbon Fiber-Based Microelectrodes for the Measurement of Nitric Oxide in Brain Tissues

s03-P-050
Ali Osman Solak (Ankara University, Chemistry Dept., Ankara, Turkey), Seda Soyulmaz, Zafer Ustundag
EDTA modified glassy carbon electrode: preparation and characterization
Program of the 59th Annual Meeting of the International Society of Electrochemistry

POSTERS

s03-P-051
Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Panagiota Arafiotou, Lucie Baldrianova, Ivan Svancara, Karel Vytras

Cathodic Stripping Voltammetry of Cysteine at Bi-powder and Bi-film Carbon Paste Electrodes

s03-P-052
Sonia Tomie Tanimoto (Instituto de Química de São Carlos, Universidade de São Paulo, São Carlos, Brazil), Sérgio Antonio Spinola Machado

Characterization of Au nano-structures modified with self-assembled alcanethiol monolayer on glassy carbon surface

s03-P-053
Els Tourwé (Vrije Universiteit Brussel, Dept. Metallurgy, Electrochemistry and Materials Science, Brussels, Belgium), Iris De Graeve, Tom Hauffman, Annick Hubin, Jean-Baptiste Jorcin, Herman Terryn

Electroanalytical study of the self assembling of nanolayers of n-octylphosphonic acid upon aluminium oxide

s03-P-054
Edgar Ventosa (Departamento de Química, Universidad de Burgos, Burgos, Spain), Jesús López-Palacios, Virginia Ruiz, Patrick R. Unwin

Electrosynthesis of ultrathin poly(3,4-ethylenedioxythiophene): control of the polymer morphology

s03-P-055
Claudia Yanez (Departamento de Quimica Organica y Fisicoquimica, Facultad de Ciencias Quimicas y Farmaceuticas, Universidad de Chile, Santiago, Chile)

Electrochemical behavior of steroids on cyclodextrin modified carbon paste electrode

s03-P-056
Do-Hyeon Yang (Environmental Parts R & D Center / Korea Automotive Technology Institute, Chonan, Korea), Ji Hye Min, Mee-Hye Oh, Jae Sup Shin, Do-Hyeon Yang, Yeo Seong Yoon

Immobilization and Electrochemical Redox of Cytochorme c on Fullerene Nanohybrid TiO₂-Gel Layer

s03-P-057
Carmen Andrade (IETcc-CSIC, Madrid, Spain), Jose Fullea, Juan J Gaitero, Antonio Porro, Javier Sanchez

Corrosion rate of a high strength steel by AFM

Symposium 4: Molecular Electrochemistry: From Single Molecules to Conducting Polymers

s04-P-001
Joaquin Barjau (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Structural Elucidation for the Oxidative Coupled Dehydrotrimers of 2,4-Dimethyl phenol

s04-P-002
Axel Kirste (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Anodic Preparation of Biphenols on BDD electrodes

s04-P-003
Jörn Kulisch (Kekulé-Institute for Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany), Siegfried R. Waldvogel

Electrochemical Synthesis of Menthylamines

s04-P-004
Laura Alvarez-Griera (Departament de Química, Universitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gonzalo Guirado

Estimation of p-Nitrobenzyl Radical Standard Potential by Spectro-Electrochemical Techniques

s04-P-005
Nargis Anwar (ITT Dublin, Dublin, Ireland), Ulrich Kortz, Timothy McCormac

Employment of Conducting Polymer films for the Immobilisation of Polyoxometallates
s04-P-006
Joaquín Arias-Pardilla (Departamento de Química Física and Instituto Universitario de Materiales, Universidad de Alicante, Alicante, Spain), Emilia Morallón, José Luis Vázquez
Electrogravimetric study of aminophenols and aniline polymerization on platinum electrode in acid medium

s04-P-007
Fátima Bento (Departamento de Química, Universidade do Minho, Braga, Portugal), Ana Paula Bettencourt, M. Dulce Geraldo, Raquel Oliveira
Electrochemical wine browning by potentiostatic and galvanostatic methods

s04-P-008
Ana Paula Bettencourt (Dept. Chemistry, University of Minho, Braga, Portugal)
Evaluation of the antioxidant activity of new compounds by cyclic voltammetry

s04-P-009
Renata Bilewicz (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Urszula Wawrzyniak, Agnieszka Wieckowska, Krzysztof Wozniak, Mateusz Wozny
Molecular Machines in Solution and on Electrode Surfaces

s04-P-010
Jana Bulickova (J.Heyrovský Institute of Physical Chemistry of ASCR, v.v.i., Prague - 8, Czech Republic), Miroslav Gál, Magdaléna Hromadová, Lubomír Pospíšil, Romana Sokolová
Fullerene in aqueous medium: good redox mediator

s04-P-011
José Miguel Campiña (Departamento de Química, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), Ana Maria Martins, Fernando Silva
Effect of the Temperature on the Permeation of an 11-Amino-1-Undecanethiol (AUT) SAM by Electroactive Probes

s04-P-012
Pilar Cea (Departamento de Química Orgánica y Química Física e Instituto de Nanociencia de Aragón, Zaragoza, Spain), Héctor Artigas, Isabel Bandrés, Ignacio Gascón, Carlos Lafuente, M. Carmen López, Diego Montano, Félix M. Royo
Isolation of Molecular Wires into a non-conducting Matrix by the Langmuir – Blodgett Technique

s04-P-013
Susana Cordoba de Torresi (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Fernanda F.C. Bazito, Leonardo Silveira, Roberto M. Torresi
Stabilization of pernigraniline conductive properties in hydrophobic room temperature ionic liquids

s04-P-014
Hugo Cruz (Departament de QuímicaUniversitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gonzalo Guirado
Electrochemistry in Ionic Liquids: “Green” Approach to the Nucleophilic Aromatic Substitution Reaction

s04-P-015
Fernando Raul Diaz Alzamora (Quimica Organica, Facultad de Quimica, Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile)
Electrosynthesis of Polyterthiophenes, 3’, Alquil aryl substiututed, for development of Photovoltaic devices

s04-P-016
Christian Durante (Dept. Chemical Sciences, Padova, Italy), Abdirisak Ahmed Isse, Durante Christian, Sandonà Giancarlo
Electrocatalytic hydrodehalogenation of polychloromethanes at silver cathodes
s04-P-017
Virgínia Ferreira (CQB, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal), Luisa Abrantes, Virgínia Ferreira, António Silva
Electrochemical and Morphological characterization of α,Ω-alkanedithiols and Au-NPs self-assembled on gold

s04-P-018
María Inés Florit (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), Waldemar Marmisollé, Dionisio Posadas
Electrochemical Ageing of Poly(aniline) and its Ring Substituted Derivatives Films

s04-P-019
María Inés Florit (INIFTA, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, La Plata, Argentina), Waldemar Marmisollé, Dionisio Posadas
The Electrochemical Ageing of Poly(o-Toluidine) Studied by Fluorescence Spectroscopy

s04-P-020
Miroslav Gal (J. Heyrovsky Institute of Physical Chemistry of ASCR, v.v.i., Prague, Czech Republic)
Polarographic and EIS Study of the Selected Cyclooxygenase-2 Inhibitors and their Basic Structural Units in Supramolecular Nanocavities

s04-P-021
Natalie Geinik (Chemistry, Beer Sheva, Israel), James Y. Becker, Armand Bettelheim
Spectroscopic and Electrochemical Characterization of Metallocorphyrins in RT Ionic Liquids

s04-P-022
Yurima Gimeno (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain), G. Benitez, L. Giovanetti, A. González Orive, D. Grumelli, J.M. Ramallo López, F.G. Requejo, R.C. Salvarezza, Y.S. Shon, C. Vericat
Electrochemical Modification of Nanoparticles: Melanin-iron Covered Gold Nanoparticles

s04-P-023
Anna Gitkis (Department of Chemistry, Ben-Gurion University of the Negev, Beer Sheva, Israel), James Y. Becker
Anodic Thiocyanation of Disubstituted Aromatic Compounds

s04-P-024
Lorenzo Gomez (Departamento de Química Física y T. A., Univ. de Córdoba, Córdoba, Spain), Rafael Rodriguez-Amaro
Kinetics of thin film of TCNQ$0/−$ Couple on a Glassy Carbon Electrode in the presence of Cesium ion

s04-P-025
Lorenzo Gomez (Departamento de Química Física y T. A., Univ. de Córdoba, Córdoba, Spain), Rafael Rodriguez-Amaro
Spectroelectrochemistry and kinetics of the TTF$0/+$ Couple over a Glassy Carbon Electrode in halide media

s04-P-026
Joaquin Gonzalez (Departamento de Química Física, Universidad de Murcia, Murcia, Spain), Nuria Abenza, Angela Molina
Study of supported molecular catalysis of electrochemical reactions with Reciprocal Derivative Chronopotentiometry

s04-P-027
Alejandro González Orive (Departamento de Química Física, Universidad de La Laguna, La Laguna, Tenerife, Spain), G. Benítez, Y. Gimeno, D. Grumelli, A. Hernández Creus, R.C. Salvarezza, C. Vericat
Electrochemical Preparation of Melanin Modified Graphite Surfaces
s04-P-028  
M. Carmen Goya (Departamento de Química Física, Universidad de La Laguna, La Laguna, Spain).  
M. Jesús Aguirre, J. Francisco Armijo, Yurima Gimeno, Alejandro González-Orive, Alberto Hernández-Creus, Mauricio Lucero, América Marín  
Modified Electrodes by Electropolimeritation of FeTAPP. Surfaces Modification after Electrocatalytical Processes

s04-P-029  
Oxana Gribkova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russian Federation), Viktor Ivanov, Alexander Nekrasov, Vladimir Tverskoj, Anatoly Vannikov  
Spectroelectrochemical properties of polyaniline films electrosynthesized in the presence of polyamidosulfonic acids with irregular distribution of sulfoacid groups

s04-P-030  
Ester Guaus (Department of Chemical Engineering, Universitat Politècnica de Catalunya, Terrassa, Spain), Adhelhamid Errachid, Joan Torrent-Burgues, Nadia Zine  
Glassy Carbon electrode modified with a Ionophore Langmuir-Blodgett film for Cu(II) recognition

s04-P-031  
Ester Guaus (Department of Chemical Engineering, Universitat Politècnica de Catalunya, Terrassa, Spain), Joan Torrent-Burgues  
Surface Electrochemistry of substituted Zn(II) phthalocyanines on solid electrodes

s04-P-032  
Gonzalo Guirado (Departament de QuímicaUniversitat Autònoma de Barcelona, Bellaterra, Spain), Iluminada Gallardo, Gemma Prats, Michinori Takeshita  
Electron-triggered motions for 1,2-dicyano[2.2]metacyclophan-1-enes Molecular Switches

s04-P-033  
Irena Hoskovcova (Department of Inorganic Chemistry, Institute of Chemical Technology, Prague 6, Czech Republic)  
Iron(0) Aminocarbene Complexes Bearing Heterocyclic Substituent on Carbene Carbon Atom: Electrochemistry and Reactivity

s04-P-034  
Elzbieta Jablonowska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Jan Biernat, Krzysztof Biesiada, Andrzej Olszyna, Kamila Sadowska  
Langmuir - Blodgett layers of nanotubes modified with azocompounds

s04-P-035  
Kumar Kendrekar (Chemistry Department, Beer Sheva, Israel), James Y. Becker  
Electrochemical Properties of Stable Silylenes

s04-P-036  
Takeshi Kondo (Department of Industrial Chemistry, Faculty of Engineering, Tokyo University of Science, Tokyo, Japan), Akira Fujishima, Takeshi Kawai, Akira Tamura  
Surface Modification of Boron-Doped Diamond Electrode with Covalent Functional Monolayers

s04-P-037  
Elene Kvaratskhelia (R. Agladze Institute of Inorganic and Electrochemistry, Tbilisi, Georgia)  
The Regularities of Electrolytic Dissociation of the Homologues of Oxalic Acid

s04-P-038  
Eduardo Laborda (Departamento de Química Física, Universidad de Murcia, Espinardo, Murcia, Spain), Richard Compton, Francisco Martinez-Ortiz, Angela Molina, Juan L. Petersen, Neil Rees, Carmen Serna  
Reverse pulse voltammetry in spherical electrodes for measuring diffusion coefficients of both species of the electroactive couple
s04-P-039
Alexander Laguna (Laboratorio de Electroquímica, Universidad de Los Andes, Mérida, Venezuela),
Yris Martínez, Elkis Weinhold
SNIFTIRS studies of the electrochemical oxidation of 1,2-didecahexoxybenzene on platinum in
dichloromethane/ tetrabutylammonium tetrafluoroborate electrolyte.

s04-P-040
Adrian Lariño (Departament de Química, Universitat Autònoma de Barcelona, Bellaterra, Spain),
Iluminada Gallardo, Gonzalo Guirado, Neus Vila
Stereoselective Formation of Cis- and Trans- dinitrostilbenes by Chemical or Electrochemical
Methods

s04-P-041
Rose-Marie Latonen (Process Chemistry Centre, Åbo Akademi University, c/o Laboratory of Analytical
Chemistry, Turku, Åbo, Finland), Ari Ivaska, Carita Kvarnström
Electrochemical Preparation and Characterization of a Nanoporous Poly(azulene)-TiO₂ Composite
Layer

s04-P-042
Ezequiel Pedro Marcos Leiva (Unidad de Matemática y Física - INFIQC, Facultad de Ciencias
Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Patricio Vélez, Martín Eduardo
Zoloff Michoff
Mechanical stability of N-Au nanojunctons. A DFT study.

s04-P-043
Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Wei Huang, Jufang
Zheng
Oscillatory Electrocatalytic Oxidation of Small Biomolecules on a Nanoporous Electrode of Ni(OH)₂

s04-P-044
Rafael Madueño (Química Física y Termodinámica Aplicada, Córdoba, Spain), Manuel Blázquez, Teresa
Pineda, José Manuel Sevilla, Alfonso Javier Viudez
Synthesis and characterization of 6-mercaptopurine monolayer protected gold clusters (6MP-MPCs)

s04-P-045
Reyes Malavé Osuna (Department of Physical Chemistry, Málaga, Spain), Peter Bäuerle, Víctor
Hernández, Juan T. López Navarrete, Barbara Vercelli, Gianni Zotti
In Situ UV-Vis-NIR Spectroelectrochemical Study of a Series of Dicyanovinyl End-Capped
Oligothiophenes

s04-P-046
Ana Marquez (Química Física y Termodinámica Aplicada, Córdoba, Spain), Manuel Blázquez, Daniel
García-Rayà, Rafael Madueño, Teresa Pineda, José Manuel Sevilla
Solvent effect on the electrochemistry of Au₃₈ nanoparticles protected by hexanethiolate

s04-P-047
Olga P. Márquez (Universidad de Los Andes - Facultad de Ciencias - Departamento de Química,
Mérida, Venezuela), Jairo Márquez
Electropolymerization of veratrole in the presence of water

s04-P-048
Mónica Martín (Universidad de los Andes, Facultad de Ciencias, Departamento de Química, Mérida,
Venezuela)
Electrochemical studies of CO₂ electroreduction in aqueous Zn(II) and Zn(II)-porphyrin solutions
on glassy carbon electrodes

s04-P-049
Angela Molina (Departamento de Química-Física, Universidad de Murcia, Murcia, Spain), Joaquín A.
Ortuño, Carmen Serna, Encarnacion Torralba
A general mathematical model for the study of amperometric ion-sensors
s04-P-050
Zekra Mousavi (Laboratory of Analytical Chemistry/Åbo Akademi University, Turku, Finland), Johan Bobacka, Ari Ivaska, Andrzej Lewenstam
Response Mechanism of Potentiometric Ag⁺ Sensor Based on Conducting Polymer

s04-P-051
Patrizia Romana Mussini (Dept of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Giacomo Berzi, Luigi Falciola, Armando Gennaro, Abdirisak Ahmed Isse, Manuela Rossi
Dissociative Electron Transfer in Electrocatalytic Conditions: the Case of Aryl Bromides and Chlorides on Silver

s04-P-052
Patrizia Romana Mussini (Dept. of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Giuseppe D’Alfonso, Laura D’Alfonso, Daniela Donghi, Matteo Mauro, Pierluigi Mercandelli, Monica Panigati, Angelo Sironi
Electrochemical Activity of a New Class of Luminescent Tricarbonyl Rhenium(I) Complexes Containing Bridging 1,2 Dizaine Ligands

s04-P-053
Luis Nuñez-Vergara (Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile)
Electrochemical Characterization of Some New Chromeno[3,4-c]pyridines in Aprotic Medium.

s04-P-054
Renáta Orináková (University of P. J. Šafárik, Institute of Chemistry, Department of Physical Chemistry, Košice, Slovakia), Miriam Gálová, Rastislav Scholz, Magdaléna Strecková
Study of cathodic processes during the electrolytical deposition of nickel from Watts electrolyte

s04-P-055
Rasa Pauliukaite (Departamento de Quimica, Coimbra, Portugal), Albertas Malinauskas, Austra Selskiene
Electropolymerisation and Characterisation of Poly(Safranin T)

s04-P-056
Emese Peintler-Kriván (University of Szeged, Department of Physical Chemistry, Szeged, Hungary), Tamás Kötrvélyesi, Csaba Vissy
Bioelectrochemical Application of The Polypyrrole/cyanocobalamin Composite Electrode

s04-P-057
Sara Pintado (Quimica Fisica y Termodinamica Aplicada, Cordoba, Spain), Jose Miguel Rodriguez Mellado, Mercedes Ruiz Montoya
Electrochemical behaviour of quinmerac, quinclorac and 8-quinolinecarboxylic acid

s04-P-058
Daniela Planá (School of Chemistry, Manchester, United Kingdom)
The oxidation mechanism of borohydride and dimethyamine borane: application to fuel cells and electroless deposition

s04-P-059
Hyacinthe Randriamahazaka (ITODYS, CNRS UMR 7086, Paris Denis Diderot Paris 7, Paris, France), Vincent Noel
Tunable intramolecular hydrogen bonding in semi-interpenetrating conducting polymer networks based on poly(1,5-diaminoanthraquinone) and poly(3,4-ethylenedioxythiophene)

s04-P-060
Gonzalo Riveros (Departamento de Química y Bioquímica, Facultad de Ciencias, Universidad de Valparaíso, Valparaíso, Chile), Carolina Garín
Silicon Modification with Ruthenocene Molecules

s04-P-061
Rafael Rodriguez-Amaro (Department of Physical-Chemistry and Applied Thermodynamic, Univ. de Córdoba, Córdoba, Spain), Manuel Cano, Antonio J. Fernandez-Romero
Voltammetric Ion Sensors Evaluated by Butler-Volmer Based Treatment, Application to Polypyrrole Films
s04-P-062
Carlos Rojas (Universidad de Los Andes, Facultad de Ciencias, Dpto. de Química, Mérida, Venezuela), Yris Martínez
Electrochemical studies of CO₂ electroreduction in aqueous Fe(II) and Fe(II)-porphyrin solutions on glassy carbon electrodes

s04-P-063
Manuela Rossi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Claudia Letizia Bianchi, Armando Gennaro, Abdirisak Ahmed Isse, Patrizia Romana Mussini
Glassy Carbon Surface Morphology as a Semiquantitative Probe for Slow Electron Transfer in Mechanistic Studies

s04-P-064
Manuela Rossi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Armando Gennaro, Abdirisak Ahmed Isse, Patrizia Romana Mussini, Irene Primerano
Supporting Electrolyte Bulkiness as a Semiquantitative Probe for Slow Electron Transfer in Dissociative Electron Transfer Studies

s04-P-065
M. Ruiz Montoya (Departamento de Ingeniería Química, Química Física y Química Orgánica Universidad de Huelva, Huelva, Spain), S. Pintado, J. M. Rodríguez Mellado
Electrochemical reduction of the imidazolinone herbicide Imazamethabenz-methyl on mercury and carbon electrodes

s04-P-066
Carlos Sanchis (Departamento de Química Física, Instituto Universitario de Materiales, Alicante, Spain)
New Electrocatalytic Abilities of Sulfonated Polyaniline after Aging in Ammonia Solutions

s04-P-067
Chen Shen-ming (Department of Chemical Engineering and Biotechnology, National Taipei university of Technology, Taipei, Taiwan), A. Balamurugan
Electrochemical sensing of biomolecules using PEDOT hybrid electrode

s04-P-068
Alex Shtelman (Chemistry, Beer Sheva, Israel)
Preparation of functional disilaalkanes by Kolbe oxidation of α-silylacetic acids

s04-P-069
Magdalena A. Skopek (Department of Chemistry, University of Leicester, Leicester, United Kingdom), Steve J. Gurman, A. Robert Hillman
EXAFS Studies of Cobalt and Nickel Hexacyanoferrate Electroactive Films

s04-P-070
Romana Sokolova (J. Heyrovsky Institute of Physical Chemistry, v.v.i., Academy of Sciences of the Czech Republic, Prague, Czech Republic), Jana Bulickova, Maria Perla Colombini, Ilaria Degano, Miroslav Gal, Magdalena Hromadova, Lubomir Pospisil, Michal Valasek
The oxidation of natural dyes: hematoxylin

s04-P-071
Santiago M. Solans (Department of Chemistry, Liverpool University, Liverpool, United Kingdom), Pilar Cea, Wolfgang Haiss, Simon Higgins, Mari Carmen Lopez, Richard Nichols
An STM Study Under Electrochemical Control of the Influence of Mixed Functional Groups on Single Molecule Conductance

s04-P-072
Carmen Soto (Departamento de Química Física, Universidad de Murcia, Murcia, Spain), Joaquin Gonzalez, Manuela Lopez-Tenes
Study of homogeneous molecular catalysis of redox reactions with Chronopotentiometry with an exponential current

s04-P-073
Juan Squella (Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Santiago, Chile)
Voltammetric Reduction of 4-(4-nitro-1-methyl-2-imidazolyl)-1,4-Dihydropyridine Derivatives
s04-P-074
Tarmo Tamm (Institute of Technology, University of Tartu, Tartu, Estonia), Terje Raudsepp, Urmo Visk
Electrochemical, Theoretical, and IR Study of the Overoxidation of Polypyrrole

s04-P-075
Libuse Trnkova (Department of Chemistry, Faculty of Science, Masaryk University Brno, Brno, Czech Republic), Miriam Galova, Renata Orinakova, Magdalena Streckova
Effect of Electrolyte Anions and Electrode Surface upon Hydrogen Evolution Studied by Elimination Voltammetry

s04-P-076
Ana Viana (CQB, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal), Luisa Maria Abrantes, Christoph Eberle, Franz-Peter Montforts
Immobilisation of a Novel Metallolporphyrin-Fullerene Dyad: Direct Self-Assembly and Diels-Alder reaction on modified gold

s04-P-077
Elena Volanschi (Department of Physical Chemistry, University of Bucharest, Bucharest, Romania), Valentina Lazarescu, Mihai Lazarescu, Ana Maria Toader
Cyclic Voltammetry and EIS Study of Hemin on p-GaAs(100) Electrodes

s04-P-078
Daniela Zane (Consiglio nazionale delle Ricerche (CNR) Istituto Materiali Nanostrutturati (ISMN), Roma, Italy), Giovan battista Appetecchi, Stefano Passerini
Electrosynthesis of poly(o-phenylenediamine) and poly(pyrrrole) in room temperature ionic liquids

s04-P-079
Veronika A. Zinovyeva (ICMUB - UMR 5260 CNRS, Université de Bourgogne, Dijon, France), Laurent Gaillon, Michel Picquet, Cécile Rizi, Mikhail A. Vorotyntsev
Is the Current of the Ferrocene (Fc) Oxidation in Ionic Liquids Proportional to its Concentration? Electrochemical and Spectral Properties of Fc in 1-butyl-3-methylimidazolium triflimide

s04-P-080
Jesús López-Palacios (Departamento de Química, Burgos, Spain), Alvaro Colina, Sonia Dsoke, Aránzazu Heras, Roberto Marassi, Pilar Merino, Virginia Ruiz
Spectroelectrochemical study of Keggin-type heteropolyanions in aqueous media

s04-P-081
Lubomír Pospíšil (J. Heyrovský Inst. of Physical Chemistry, Prague, Czech Republic), Louis Adrianssens, Zuzana Krausová, Radek Pohl, Lukáš Severa, Petr Slavíček, Ivo Stárý, Filip Teplý
Fast Organic Redox Systems: Helicene and Helquat

s04-P-082
Kuniaki Murase (Department of Materials Science and Engineering, Kyoto University, Kyoto, Japan), Takashi Ichii, Daiji Kasahara, Hikaru Sano, Hiroyuki Sugimura
Mild Preparation of Vinylferrocene SAM Directly Attached to H-Si(111) Surface Using Visible Light Irradiation

Symposium 5: Electrochemistry of New Materials and Novel Microstructures for Sustainable Development

s05-P-001
Evren Aslan Guerel (Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland), David J. Fermin, Jianjun Zhao
Charge Transport in Electrodes Modified By Ulthathin Polyelectrolyte/Conducting Polymer Composites

s05-P-002
Kitani Akira (Graduate School of Engineering, Hiroshima University, Higashihiroshima, Japan), Kohno Takeaki
Electrochemical preparation of polyaniline microballs incorporated with DNA

s05-P-003
Anna Amell (Electrodep, Department of Physical Chemistry, University of Barcelona, Barcelona, Spain), C. M. Muller, M. Sarret
Micro- and nanocomposite coatings from a sulfamate bath
s05-P-004
Elsa Arce (Instituto Politécnico Nacional, Departamento de Metalurgia y Materiales, México, Mexico)
Comparative study Ru-Se 1:1 AND 1:2 electrocatalyst synthesized by mechanical alloying for oxygen reduction reaction.

s05-P-005
Christos Argirusis (Institut für Metallurgie, Technische Universität Clausthal, Clausthal-Zellerfeld, Germany), Sladjana Matic, Oliver Schneider, Jovana Zecevic
The electrochemical quartz crystal microbalance technique in sonoelectrochemistry

s05-P-006
Christos Argirusis (Institut für Metallurgie, Technische Universität Clausthal, Clausthal-Zellerfeld, Germany), Sladjana Matic, Oliver Schneider, Jovana Zecevic
Sonoelectrochemical deposition of functional metal-ceramic and metal-metal composite layers

s05-P-007
Christos Argirusis (TU Clausthal Inst. f. Metallurgy, Clausthal-Zellerfeld, Germany), Jana Große-Brauckmann, Virginie Lair
Electrophoretic Deposition of Oxide Layers with Ionic Liquids

s05-P-008
Juan Armijo (Facultad de Química, Pontificia Universidad Católica de Chile, Santiago, Chile), Rodrigo del Rio, Mª Angelica del Valle
Electrochemically polymerized composites of o-aminophenol and flavins. Application as electrochemical sensor.

s05-P-009
Begoña Asenjo (Renewable Energies, CIEMAT, Madrid, Spain), Veronica Bermudez, Antonio Chaparro, Cecilia Guillén, Teresa Gutierrez, Jose Herrero, Daniel Lincot, Edgardo Saucedo
Properties of $\text{In}_2\text{S}_3$ thin films deposited onto ITO/glass substrates by chemical bath deposition

s05-P-010
Mihaela Baibarac (National Institut of Materials Physics, Optics and Spectroscopy Laboratori, Bucharest-Magurele, Romania)
Electrochemical polymerization of indole in the presence of single walled carbon nanotubes

s05-P-011
Lucie Baldrianova (Department of Analytical Chemistry / University of Pardubice, Pardubice, Czech Republic), Samo B. Hocevar, Bozidar Ogorvec, Ivan Svancara, Eva Tesarova, Karel Výtras
Antimony-Modified Electrodes in Electrochemical Stripping Analysis of Trace Heavy Metals

s05-P-012
Ioan Baltog (National Institute of Materials Physics, Optics and Spectroscopy Department, Bucharest-Magurele, Romania)
Electrochemical Polymerization of Biphenyl in the Presence of Single Walled Carbon Nanotubes

s05-P-013
Gábor Bencsik (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary)
Photo-electrochemistry of iron oxalate containing conducting polymers

s05-P-014
Tânia Machado Benedetti (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Lirian Aranda, Willian Menezes, Dayanne Reis, Jaisa Soares, Roberto Torresi, Aldo Zarbin
Electrochemical behavior in ionic liquid of $\text{V}_2\text{O}_5$ nanoparticles deposited by electrophoresis

s05-P-015
Leonard Berlouis (Pure and Applied Chemistry, Glasgow, United Kingdom), Pierre-Francois Brevet, Kirstin Forsyth, Alastair Wark
SERS from Electrochemically-Formed Ordered Arrays of Gold and Silver Nanorods

s05-P-016
Leo Binder (Graz University of Technology, Institute for Chemistry and Technology of Inorganic Materials, Graz, Austria), Josef Haring
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s05-P-017
Sergio Blanco (Centro de Tecnología de Materiales, Fundacion Instituto de Ingenieria, Caracas, Venezuela), Carlos Borras, Jorge Mostany, Benjamin Schariker
A nickel nanowire sensor: construction, characterization and electrochemical evaluation

s05-P-018
Christa Bünzli (School of Chemistry, University of Bristol, Bristol, United Kingdom), David Fermín
Photoelectrochemical Investigations of Columnar ZnO Nanoarrays

s05-P-019
Manuel Cano (Departamento de Física, Química y Sistemas Naturales, Sevilla, Spain), Angel Barranco, Luis Camacho, Pedro Castillero, Agustín R. González-Elipe, José María Pedrosa, Juan R. Sánchez
Electrochemical Properties of a Porphyrin Infiltrated into a Columnar TiO₂ Thin Film Modified ITO Electrode

s05-P-020
Geta Carac (University Dunarea de Jos Galati, Department of Chemistry, Galati, Romania), Catalina Iticescu, Thomas Lampke, Monica Murarescu
Effect of nano-Al₂O₃ particles on the electrodeposition of Ni-Co alloys

s05-P-021
Lee Chang-Wook (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurgical Engineering, Yonsei University, Seoul, Korea)
Fabrication of Cellular Nickel Thin Film by Electrochemical Dealloying for Supercapacitor Applications

s05-P-022
Lee Chang-Wook (National Research Laboratory of Energy Conversion and Storage Materials, Department of Metallurgical Engineering, Yonsei University, Seoul, Korea)
Synthesis of Mesoporous MnO₂/CNT Nano-composite for Supercapacitor Application

s05-P-023
Shen-Ming Chen (Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei, Taiwan), S. Ashok Kumar
Meldola’s blue/ZnO and Toluidine blue/ZnO hybrid film coated electrodes: Electrochemical preparation, characterization and electrocatalysis

s05-P-024
Paula Cojocaru (Politecnico di Milano, CMIC, Milano, Italy), Pietro Luigi Cavallotti, Luca Magagnin, Fabio Muscolino
Properties of ECD nickel submicron composites: Mechanical behaviour and thermal stability of nanostructured carbon-based Materials

s05-P-025
Meritxell Cortés (Electrodep, Dpt. Química Física and Institut de Nanociència i Nanotecnologia (IN2UB), Universitat de Barcelona, Barcelona, Spain), Elvira Gómez, Alejandro Pérez-Rodríguez, Christophe Serre
Copper electrodeposition for Si compatible inductive microsystems

s05-P-026
Sonia R. Biaggio (Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brazil)
Carla Dalmonin, Romeu C. Rocha-Filho, Nerilso Bocchi
Electrochemical properties of nanostructured polypyrrole electrosynthesized in ionic liquids

s05-P-027
Katia De Henau (Universiteit Gent, Gent, Belgium)
Controlled electrodeposition of iron nanoparticles on a blanket Si(100) surface

s05-P-028
Djenaine De Souza (Departamento de Química, Universidade Federal de São Carlos, São Carlos, Brazil), Orlando Fatibello-Filho, Lucia Mascaro
Construction and characterization of amalgam electrodes with different proportions of silver mercury for analytical applications
s05-P-029
F. Javier del Campo (Microsistemas, Centro Nacional de Microelectrónica (IMB-CNMC-SIC), Bellaterra, Spain), Enric Bertran, Jordi García-Céspedes, Francesc Xavier Muñoz
Fabrication of carbon nanotube forest thin film electrodes

s05-P-030
Jessica DENAYER (Laboratory of Electrochemistry and Chemistry of Surfaces, Namur, Belgium), Joseph Delhalle, Zineb Mekhalif
Molecular Self-Assembly of Alkanethiol Mono and Bipode on Copper

s05-P-031
Alejandro Diana (Química Física/Universitat de València, Burjassot, Spain)
Spectroelectrochemistry of poly-azines and poly-phenothiazines deposited on ITO electrodes

s05-P-032
Alarcon Domingo (Chemical/ Universidad de los Andes, Merida, Venezuela)
Electrodeposition and characterization of binary semiconductors of type XSe (X= Pb, Cu).

s05-P-033
Lioudmila Doubova (CNR-IENI, Padua, Italy), Simone Battiston, Stefano Boldrini, Sergio Daolio, Monica Fabrizio, Rosalba Gerbasi, Silvia Gross, Enrico Miorin, Francesco Montagner, Cesare Pagura
Photo-Activity of Doped/Undoped Nanostructured Titanium Oxide Thin Film Deposited via RF Magnetron Sputtering.

s05-P-034
Hakim El Bouhoutia (University Abdelmalek Essaâdi, Department of Chemistry, Faculty of Sciences of Tétouan, Tetouan, Morocco), Dounia Bouchta, José Luis Hidalgo Hidalgo de Cisneros, Khalid Riffi Temsamanii
A Sonogel-Carbon/l-cystein modified electrode for detection of dopamine

s05-P-035
Pablo Fanjul (Departamento de Química-Física y Analítica. Universidad de Oviedo, Oviedo, Spain), Pedro J. Lamas
Gold ultramicroelectrode arrays based on screen printed electrodes

s05-P-036
Grégory Fonder (Département de Chimie/Facultés universitaires Notre-Dame de la Paix de Namur, Namur, Belgium), François Berger, Balazs Csoka, Joseph Delhalle, Zineb Mekhalif
Self–Assembled Monolayers of alkanethiols and alkaneselenolns on Copper

s05-P-037
Mauricio Fonseca (Departament of Chemistry / University of Minho, Braga, Portugal), Isabel Correia Neves, Sara Gonçalves, Pier Parpot
Electrochemical behaviour of zeolite-encapsulated transition metal complex on carbon support

s05-P-038
Silvana García (INIEC - Instituto de Ingeniería Electroquímica y Corrosion - Universidad Nacional del Sur, Bahía Blanca, Argentina), María Cecilia del Barrio
Formation of Ag/Cd Heterostructures Electrodeposited on Au(111)

s05-P-039
Eva García - Lecina (Surface Finishing Department, CIDETEC, Electrochemical Technology Centre, Donostia-San Sebastián, Spain), Patricia Calvillo - Guinaldo, Mario Díaz - Fuentes, Itziar García - Urrutia
Electrodeposition and Characterization of Ni/Al2O3 Nanocomposite Coatings

s05-P-040
Jose García-Torres (Electrodep. Dpt. Química Física and Institut de Nanociència i Nanotecnologia (IN2UB), Universitat de Barcelona, Barcelona, Spain), Elisa Valles
Influence of preparation conditions on Co-Ag films properties
s05-P-041
Juan Luis Gautier (Departamento de Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile)
Polypyrrole Thin Films on Semiconducting Transparent Substrates

s05-P-042
Juan Luis Gautier (LEFQS, Universidad de Santiago de Chile, FQB, Materials Chemistry Department, Santiago, Chile), Ramón Gancedo, José Marco, Erika Meza, Juan Ortiz
Structural and Electrochemical Study on Li–Ni-Co Oxides

s05-P-043
Maria Luisa Almoraima Gil (Department of Physical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, José Luis Hidalgo-Hidalgo de Cisneros, Ignacio Naranjo-Rodríguez, José María Palacios-Santander
A New Gold Nanoparticles-Sonogel-Carbon Sensor

s05-P-044
Anabela Gomes (CCMM, Chemistry Department, Science Faculty of Lisbon, Lisbon, Portugal), M. Isabel da Silva Pereira, Tânia Frade
Electrodeposited Zn-TiO$_2$ Nanocomposites for Wastewater Treatment: Preparation, Characterisation and Stability

s05-P-045
Humberto Gomez (Instituto de Química, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile)
Electrodeposition of ZnO Films from DMSO Solution in Presence of Surfactant Additives

s05-P-046
Yaiza Gonzalez-Garcia (Institute for Experimental and Applied Physics, University of Kiel, Kiel, Germany), Olaf Magnussen
In situ AFM investigation of photoswitching in azo-polymers thin films

s05-P-047
Doris Grumelli (INIFTA (Instituto Nacional de Investigaciones Fisico Químicas teoricas y Aplicadas), La Plata, Argentina), Guillermo Benítez, Y. Gimeno, Lisandro Giovanetti, Alberto Hernández Creus, Alejandro Orive, Jose M. Ramallo López, Felix Requejo, Roberto Salvarezza, Y. Shon, Carolina Vericat
Electrochemical Modification of Nanoparticles: Melanin-Iron Covered Gold Nanoparticles

s05-P-048
Henrik Gustafsson (Åbo Akademi University, Process Chemistry Centre, c/o Laboratory of Analytical Chemistry, Åbo - Turku, Finland), Ari Ivaska, Carita Kvarnström, Fredrik Sundfors
Poly(3,4-ethylenedioxythiophene) on Aluminium: Electrochemical Properties and Potential Applications

s05-P-049
Rodrigo Henriquez (Laboratorio de Electroquímica, Instituto de Química, Facultad de Ciencias, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile), Enrique Dalchiele, Humberto Gómez, Paula Grez, Daniel Lincot, Ricardo Marotti, Eduardo Muñoz
One-Step Potentiodynamic Synthesis of Polycrystalline Cadmium Oxide (CdO) Thin Films in DMSO Solution.

s05-P-050
María Aránzazu Heras Vidaurre (Analytical Chemistry Area, Department of Chemistry, University of Burgos, Burgos, Spain), Alvaro Colina, Jesús López-Palacios, Laura Pigani, Virginia Ruiz, Renato Seeber, Fabio Terzi, Chiara Zanardi
Bidimensional Spectroelectrochemistry: A Powerful Technique to Investigate the Electrosynthesis and Doping of Polymer Nanocomposites.

s05-P-051
Keigo Ichinose (Gifu University, Gifu, Japan), Tomoaki Mizuno, Tsukasa Yoshida
Control of Nanostructure and Crystallographic Orientation in Electrodeposition of ZnO Hybrid Thin Films Using Templates
s05-P-052
Nobuhito Imanaka (Applied Chemistry, Osaka University, Suita, Japan)
High Ba$^{2+}$ Ion Conducting Polycrystalline Solid

s05-P-053
Csaba Janáky (Institute of Physical Chemistry, University of Szeged, Szeged, Hungary)
Chemical and electrochemical synthesis of poly(thiophene-3-acetic-acid) – magnetite nanocomposite

s05-P-054
Anna Jarek (AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Krakow, Poland), Remigiusz Kowalik, Piotr Zabinski
Morphology of functional Ni-W alloys coatings for hydrogen evolution in 8 M NaOH.

s05-P-055
Anna Jarosik (Max Planck Institute for Solid State Research, Stuttgart, Germany), Sarmimala Hore, Nitin Kaskhedikar, Joachim Maier, Uwe Traub
Percolation of oxide networks in composites of solid and non-aqueous lithium salt solutions

s05-P-056
Jong-Pil Jegal (Department of Materials Science and Engineering, Seoul, Korea), Kwang-Heon Kim
Carbon Coating on Vanadium oxide by Amino-functionalization

s05-P-057
Yan-Xia Jiang (Department of Chemistry, Xiamen University, Xiamen, China), Yan-Xia Jiang, Hong-Gang Liao, Dong-Hai Lin, Shi-Gang Sun
Preparation of Silver Nanoparticles Confined in SBA-15 and their Electrochemical Properties

s05-P-058
Anne Jung (Physical Chemistry, Saarbrücken, Germany), Rolf Hempelmann, Erhardt Lach, Harald Natter
Improved mechanical behaviour of electrochemically deposited n-Ni/n-Al$_2$O$_3$ metal matrix composites

s05-P-059
Iraj Kazeminezhad (Physics, Ahvaz, Iran (Islamic Republic of)), Mansour Farbod, Elham Khoshbakht
Electroplating and Nanostructure Study of Ultra Thin Cu/Constantan Bilayer on GaAs from Citrate and Sulphamate Electrolytes

s05-P-060
Iraj Kazeminezhad (Physics, Ahvaz, Iran (Islamic Republic of)), Mehrnoosh joneidy, Gholamreza Nabiyouni
Nanostructure Study of Electrodeposited Co-Cu/Pt Multilayer

s05-P-061
Kwang-Heon Kim (Department of Metallurgical Engineering, Yonsei University, Seoul, Korea)
Synthesis of Carbon Coated Metal Oxide Hybrid Nanocomposite by Hydrothermal Carbonization for Supercapacitors

s05-P-062
Veniamin Kondratiev (Department of Chemistry, St. Petersburg State University, St. Petersburg, Petrodvoretz, Russian Federation), Tatyana Babkova, Svetlana Eliseeva
Ion and Solvent Transfer Processes During p-doping of PEDOT Films in Acetonitrile and Propylene Carbonate Solutions

s05-P-063
Veniamin Kondratiev (Department of Chemistry, St. Petersburg State University, St. Petersburg, Petrodvoretz, Russian Federation), Svetlana Eliseeva, Elena Tolstopyatova
The Study of PEDOT-based Composite Materials Containing Palladium Nanoparticles

s05-P-064
Ivet Kosta (Electrodep. Dpto. Quimica-Física, Barcelona, Spain), Carlos Müller, Maria Sarret
CoP Electroplates on hard steel
s05-P-065
Cheng-Yuan Lai (Materials Research Group, School of Pharmacy and Chemistry, Kingston University, Kingston Upon Thames, United Kingdom), John Brown, Peter Foot
The Synthesis of Novel Electrochromic Materials to Increase The Colour-changing Service Life of Poly(3-hexylthiophene), and Investigation of Their Optical and Electrical Properties.

s05-P-066
Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Yanping Deng, Li Fu, Wei Huang, Jina Wu
Electrochemical Fabrication and Applications of Some Three-dimensional Porous Electrodes

s05-P-067
Maria Marcu (Institute of Physical Chemistry, Bucharest, Romania), Alexandra Banu, Dan Marcu
NiO/CoO nanocomposites in a polymer matrix

s05-P-068
Bernabé Marí Soucase (IDF-DFA, Universitat Politècnica de València, València, Spain), Francisco Javier Manjón, Miguel Mollar, Mariola Tortosa
Optical properties of electrodeposited ZnMnO films

s05-P-069
Hiroshi Matsubara (Nagaoka University of Technology, Nagaoka, Japan), Kazunori Hodouchi, Yasunobu Inoue, Hiroshi Matsubara, Hiroshi Nishiyama, Nobuo Saito, Satoshi Sutou
Co-Deposition Behavior of Nanodiamond Particles in Nickel Tungsten Plated Films

s05-P-070
Beatriz Meana Esteban (Åbo Akademi University, Process Chemistry Centre, c/o Laboratory of Analytical Chemistry, Åbo-Turku, Finland), Lothar Dunsch, Ari Ivaska, Carita Kvarnström, Andreas Petr
In situ study of the nature of the charge carriers in aromatic fused ring systems

s05-P-071
Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Boguslaw Bas, Teresa Blaz, Jerzy Golimowski, Andrzej Lewenstam, Barbara Zralka
Multi-electrode, maintenance and internal solution free galvanic cells for potentiometric measurements

s05-P-072
Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Teresa Blaz, Andrzej Lewenstam, Barbara Zralka
Copper-sensitive potentiometric sensors based on PEDOT-Arsenazo films

s05-P-073
Jan Migdalski (AGH University of Science and Technology, Krakow, Poland), Teresa Blaz, Andrzej Lewenstam
Conducting polymer based Cd^{+2} potentiometric sensors.

s05-P-074
Montilla Milagro (Chemical/ Universidad de Los Andes, Merida, Venezuela)
Electrochemical grown of FeCdTe and NiCdTe from alkaline solutions on gold electrode.

s05-P-075
Javier Molina (Departamento de Ingeniería Textil y Papelera/ Universidad Politécnica de Valencia, Alcoi, Spain), José Bonastre, Francisco Cases, Ana Isabel del Río
Electrochemical Polymerisation of Polypyrrole and Polyaniline onto Conducting Textiles of Polyester/Polypyrrrole

s05-P-076
Marcelo J. Monteiro (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Fernanda F. C. Bazito, Mauro C. C. Ribeiro, Leonardo J. A. Siqueira, Roberto M. Torresi
Molecular Dynamics Simulation as a Tool for Understanding Li^{+} Conductivity in an Ionic Liquid
s05-P-077
Francisco Montilla (Instituto Universitario de Materiales de Alicante, Universidad de Alicante, Alicante, Spain), María de los Ángeles Cotarelo, Emilia Morallón

s05-P-078
Eduardo Muñoz (Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile)
Electrodeposition and Electroless Processes of Rhenium onto p-Si(100). Behaviour of the Hydrogen Evolution Reaction in p-Si/Re/0.1 M H₂SO₄ Interfaces.

s05-P-079
Fabio Muscolino (Dipartimento di Chimica, Materiali ed Ingegneria Chimica, Politecnico di Milano, Milan, Italy), Elza Bontempi, Oberto Citterio, Luca Magagnin, Cavallotti Pietro Luigi, Raffaella Rognoni, Vittorio Sirtori
Oxide electrochemical growth on ultra-flat Ni-P in alkaline solution

s05-P-080
Alexander Nekrasov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences, Moscow, Russian Federation), Oxana Gribkova, Viktor Ivanov, Anatoly Vannikov
Multifunctional Electrochemical Coatings on the Basis of Interpolymer Complexes of Polyaniline with Polyamidosulfonic Acids: Comparison of Their Operation Characteristics in Possible Applications

s05-P-081
Nebojsa Nikolic (ICTM-Department of Electrochemistry, Belgrade, Serbia), Ljubica Pavlovic, Miomir Pavlovic, Konstantin Popov
Analysis of copper irregular electrodeposits formation by the discussion of the equilibrium’s diagram of CuSO₄·H₂SO₄·H₂O

s05-P-082
Piotr Ozga (Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Kraków (Cracow), Poland)
The Development of the Stable Citrate Baths for the Electrodeposition of Binary and Ternary Zinc Alloys

s05-P-083
Yasemin Oztok (Department of Chemistry, Selcuk University, Konya, Turkey), Ersin Guler, Ozcan Kocyigit, Ali Osman Solak, Zafer Yazıcıgil
The Comparison of Glyoxime Derivatives with Electrochemical Techniques

s05-P-084
Yasemin Oztok (Department of Chemistry, Selcuk University, Konya, Turkey), Ersin Guler, Ozcan Kocyigit, Ali Osman Solak, Zafer Yazıcıgil
The Investigations about Electrochemical Behavior of Phenyl Glyoxime on Glassy Carbon Electrode

s05-P-085
Mariana P. Massafera (Chemistry Institute, University of São Paulo, São Paulo, Brazil), Susana I. C. Torresi
Layer-by-Layer Deposition of Urease into Nanostructured Poly(Pyrrole) for Improvement of an Urea Biosensor

s05-P-086
Susana Palmero (Departamento de Química/Universidad de Burgos, Burgos, Spain), Alvaro Colina, Aránzazu Heras, Jesús López-Palacios, Emma Muñoz, Virginia Ruiz
Potential step electro synthesis of Pt-Polyaniline nanocomposites

s05-P-087
Sonia Patricio (Faculdade de Ciências, da Universidade do Porto, Porto, Portugal), Cristina Freire, Robert Hillman, Cosme Moura
[Ni(salen)crown]-Polyelectrolyte Multilayer Composite Films for Sensing Applications
s05-P-088  
Carlos Pereira (CIQ-UP Departamento de Química, Faculdade de Ciências da Universidade do Porto, Porto, Portugal), Carla Arieira, Elisabete Ferreira, Fernando Silva  
Electrochemical characterization of gold and silver nanoparticles

s05-P-089  
Marta Pérez-Morales (Department of Physical Chemistry and Applied Thermodynamics, Córdoba, Spain), Luis Camacho, Gustavo de Miguel, Maria Teresa Martín-Romero, Eulogia Muñoz  
Electrochemical Quantification of Oxygen Adsorbed on Cobalt-porphyrin Electrodeposits

s05-P-090  
Electrodeposition of Pd-Cu alloys and nanoporous Pd formation by anodic dealloying

s05-P-091  
Salvatore Piazza (Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università di Palermo, Palermo, Italy), Rosalinda Inguanta, Carmelo Sunseri  
Electrodeposition of lead dioxide nanowires with a high aspect ratio

s05-P-092  
Jeanette Rebello (Department of Chemistry and Food Chemistry, Dresden, Germany), U. Guth, V.V. Vashook  
Investigation of the Electrochemical Behaviour of Some Perovskite Materials in Aqueous Solution

s05-P-093  
Christina Roth (TU Darmstadt Materials Science, Darmstadt, Germany), Virginie Croze, Frank Ettingshausen, Marc Michel, David Ramaker  
Operando study of PEMFC cathode by time-resolved XAS

s05-P-094  
Pavel Ruvinsky (LMSPC-UMR 7515 du CNRS-ULP-ECPM, Strasbourg, France), Matthieu Houille, Cuong Pham-Huu, Elena Savinova  
Aligned Carbon Nanotubes on TiOx Substrates for Fuel Cell Applications

s05-P-095  
Lotfali Saghatforoush (Chemistry, Khoy, Iran (Islamic Republic of))  
Synthesis and Electrochemical Studies on a Three New Schiff-Base Cobalt(II) Complexes

s05-P-096  
Daniel Salinas (INIEC - Instituto de Ingeniería Electroquímica y Corrosión, Universidad Nacional del Sur, Bahía Blanca, Argentina), Silvana Garcia, Lorena Meier  
Spontaneous Deposition of Sn/Pd on Au(111)

s05-P-097  
Daniel Salinas (INIEC - Instituto de Ingeniería Electroquímica y Corrosión, Bahía Blanca, Argentina), Andrea Alvarez  
Electrodeposition of Pd/Cu Nanocrystals on Vitreous Carbon Electrodes

s05-P-098  
Luis Sánchez (Química Inorgánica, Córdoba, Spain), Manuel Blázquez, Julian Morales, Teresa Pineda, Alfonso J. Viudez  
Use of 6-mercaptopurine to obtain tailored size gold nanoparticles. A new approach to obtain enhanced negative electrodes for Li-ion batteries.

s05-P-099  
Monica Santamaria (Università di Palermo, Palermo, Italy), Francesco Di Quarto, Francesca Muratore  
Synthesis and characterization of zinc hydroxystannate films

s05-P-100  
Mauro Santos (Laboratório de Eletroquímica e Materiais Nanoeestruturados, Centro de Ciências Naturais e Humanas, Universidade Federal do ABC, Santo André, Brazil), Marcelo Calegaro, Adriane Flausino, João Paulo Ladeia, Robson Oliveira, Luanna Parreira, Daniel Rascio, Rodrigo Souza  
Ethanol Electrooxidation Using PtCe/C Electrodes
s05-P-101
Mauro Santos (Laboratório de Eletroquímica e Materiais Nanoestruturados, Centro de Ciências Naturais e Humanas, Universidade Federal do ABC, Santo André, Brazil), Marcelo Calegaro, Robson Oliveira
Ethanol Electrooxidation Using Bi Electrodeposited on Pt Electrodes

s05-P-102
Luis Santos (University of Paris 7, Paris, France)
In-situ Reduction of Aryldiazonium in Presence of βCD in Aqueous Solution. Electrochemical, SECM and AFM Investigation

s05-P-103
Erika Scavetta (Department of Physical and Inorganic Chemistry, Bologna, Italy), Barbara Ballarin, Lorella Guadagnini, Adriana Mignani, Domenica Tonelli
Thin Films of Co Based Layered Double Hydroxide: Electrodeposition and Electrochemical Characterisation

s05-P-104
Ricardo Schrebler (Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile)
Effects of Co (II) and Mg (II) species on semiconducting and photoelectrochemical behavior of hematite (α-Fe₂O₃) synthesized electrochemically.

s05-P-105
Fascinating Materials for Electrochromic Devices

s05-P-106
Mariana Sima (National Institute of Materials Physics, Bucharest-Magurele, Romania), Ionut Enculescu, Marian Sima, Eugeniu Vasile, Teodor Visan
Anodic oxidation of nano and microwire arrays of Zn-Mn alloy

s05-P-107
Marian Sima (National Institute of Materials Physics, Bucharest-Magurele, Romania), Ionut Enculescu, Maria Nicoleta Grecu, Mariana Sima, Eugeniu Vasile
Cathodic electrodeposition of ZnO:Mn nanotube arrays

s05-P-108
Sotirios Sotiropoulos (Chemistry Department, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece), Stephan Armyanov, Jenia Georgieva, Nikos Phillipides, Ioannis Poullos, Eugenia Valova
Photoelectrocatalytic activity of electrosynthesised tungsten trioxide-titanium dioxide bi-layer coatings for organics photooxidation

s05-P-109
Seema Sudhakaran Pillai (Chemical & Pharmaceutical Sciences, Kingston Upon Thames, United Kingdom), Peter Foot
Conducting Polymer-Lanthanide Composites For Luminescent Devices

s05-P-110
Shi-Gang Sun (Chemistry Department, Xiamen University, Xiamen, China), Qing-Song Chen, Yan-Xin Chen, Zhi-You Zhou
CoPt Nanoparticles and their catalytic properties towards CO and methanol electrooxidation

s05-P-111
Fredrik Sundfors (Åbo Akademi University, Laboratory of Analytical Chemistry, Turku/Åbo, Finland), Henrik Gustafsson, Ari Iivaska, Carita Kvarnström
Electrochemical Impedance Spectroscopy Study of Electropolymerized Poly(3,4-ethylenedioxythiophene) Films on Aluminum Disk Electrodes
s05-P-112
Dioulsé Sylla (Electrodep. Dept. Quimica Fisica, Barcelona, Spain), Carlos Müller, J. A. Ortega, Maria Sarret
Anodisation of Ti and Ti-alloys

s05-P-113
Agata Tarajko-Wazny (Dept. of Chemistry, Warsaw University, Warsaw, Poland), Magdalena Skompska
Synthesis and characterization of poly(1,8-diaminocarbazole)

s05-P-114
Mihaela Tertis (Faculty of Chemistry and Chemical Engineering, Associated Francophone Laboratory/Babes-Bolyai University, Cluj-Napoca, Romania), Cecilia Cristea, Maria Jitaru
New Modified Nanostructured Electrodes For Aromatic Hydroxi Acids Oxidation

s05-P-115
Eva Tesarova (Department of Analytical Chemistry / University of Pardubice, Pardubice, Czech Republic), Lucie Baldrianova, Samo B. Hocevar, Bozidar Ogorevc, Ivan Svancara, Karel Vytras
Antimony Film-Plated Carbon Paste Electrode for Voltammetric Determination of Trace Heavy Metals

s05-P-116
Elli Theodoridou (Institute of Physical Chemistry, Thessaloniki, Greece), Marina Arnaudova, Georgy Avdeev, Mario Mitov, Andreas Zielonka
Production and Characterization of Ni-Mo-W Layers on Carbon Fiber Supports

s05-P-117
Etsushi Tsuji (Division of Chemistry, Graduate School of Engineering Science, Osaka University, Osaka, Japan), Akihito Imanishi, Yoshihiro Nakato
Work Function of Nano-structured TiO$_2$ (rutile) Surface Studied by a Scanning Auger Microprobe

s05-P-118
Iliia Valov (Institute of Physical Chemistry, Justus-Liebig University, Giessen, Germany), Desisslava Guergova, Plamen Stefanov, Iliia Valov
Kinetics of Cathodic Electrodeposition of Rare-Earth and Refractory Metal Oxides From Non-Aqueous Electrolytes

s05-P-119
Teodor Visan (Dept. of Applied Physical Chemistry and Electrochemistry, Univ. Politehnica Bucharest, Romania, Bucharest, Romania), Anca Cojocaru, Adrian Cristian Manea, Marin Nedelcu, George Stanciu
Investigation of Zn, Co, and Sb Deposition from Ethylene Glycol Bath for the Use in ZnSb and CoSb Thermoelectric Films Preparation

s05-P-120
Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel
Pretreatment of Light Weight Metal Alloys

s05-P-121
Josef Wendrinsky (ECHEM Centre of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Norica Godja, Nikolett Kiss, Christine Löcker, Gerhard E. Nauer, Andreas Schindel
Spark Discharge Anodization as a Pretreatment Method for Corrosion-protection, Bonding and Coating Processes

s05-P-122
Caterina Zanella (Department of Materials Engineering and Industrial Technologies, University of Trento, Trento, Italy), Pier Luigi Bonora, Alex Lanzutti, Maria Lekka, Claudio Valbusa
Low-power ultrasound treatment during electrodeposition of nanoSiC-nickel composite coatings

s05-P-123
Krzysztof Stolarczyk (Faculty of Chemistry, Warsaw University, Warsaw, Poland), Jan F. Biernat, Renata Bilewicz, Karolina Madrak, Jerzy Rogalski, Kamila Sadowska
Reduction of Oxygen Catalyzed by Laccase Using Carbon Nanotubes Modified with Anthraquinone

s05-P-124
Saravanakumar Duraisamy (Dept. of Chemistry, Sogang University, Seoul, Korea, Republic of), Junghyun Lee, Rajaram Krishna Nagarale
Synthesis of Copper-Incorporated Polymer Composite and its Application to Oxygen Reduction
Symposium 6: Corrosion: Fundamental Understanding to Practical Applications

s06-P-001
Elena Madalina Aldea (University Politehnica Bucharest, Bucharest, Romania), Maria Magdalena Ducu, Mariana Prodana
Correlation between morphology features of TiO$_2$ MOCVD deposition on implant bioalloys and their electrochemical behavior in artificial saliva

s06-P-002
Idalina Aoki (Departamento de Engenharia Química, São Paulo, Brazil), Hercílio De Melo, Jean Ferrari, Cristiane Martins
Sol-gel Derived Hybrid Coatings Based on Amine-cured Epoxy for Protection Against Corrosion of Al Alloy 2024-T3

s06-P-003
Niloufar Bahrami Panah (Department of Chemistry, Faculty of Science, Payame Noor University, Tehran, Iran (Islamic Republic of))
Study of Anticorrosive Performance of Polypyrrole/polyaniline Bilayer as a Primer in Paint Systems via Electrochemical Techniques

s06-P-004
Niloufar Bahrami Panah (Department of Chemistry, Faculty of Science, Payame Noor University, Tehran, Iran (Islamic Republic of)), Mohammad Ghasem Mahjani
Study of Anticorrosive Properties of Polyaniline Pigmented Epoxy Coatings

s06-P-005
Jelena Bajat (Faculty of Technology and Metallurgy, Department of Physical Chemistry and Electrochemistry, Belgrade, Serbia), Zorica Kacarevic-Popovic, Vesna Miskovic-Stankovic
Corrosion Stability of Epoxy Coatings on Aluminium Pretreated by Vinyltriethoxysilane

s06-P-006
Dimitar Borissov (Max-Planck-Institute for Iron Research, Düsseldorf, Germany), Frank Renner, Michael Rohwerder
Zn-Mg-Al Alloy Electrodeposition from Ionic Liquids

s06-P-007
Christopher Brett (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal)
Influence of mucin on the corrosion mechanism of dental amalgams in artificial saliva

s06-P-008
Laura Burgos (Applied Phisical Chemistry, Madrid, Spain), Concepción Alonso, María Lorenzo Escudero, Cristina García Alonso
Microelectrochemical study of corrosion phenomena and osteoblast adhesion kinetics on Ti/TiO$_2$ surface

s06-P-009
Maria Carmezim (EST Setúbal, Instituto Politécnico de Setúbal, Setúbal, Portugal), João Fernandes, Mario Ferreira, Nadia Figueira, Teresa Silva
Surface modification of Nitinol: an electrochemical study under simulated physiological conditions

s06-P-010
Ana Laura Correa (Facultad de Ciencias, Universidad Autonoma de Madrid, Madrid, Spain)
Polypyrrole and silane compounds on aluminium 2024 for corrosion protection

s06-P-011
José M. Costa (Department of Physical Chemistry, University of Barcelona, Barcelona, Spain)
The Contribution of Electrochemistry to the Development of Corrosion Science
s06-P-012
Alexei Davydov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Luiza Beketaeva, Konstantin Rybalka, Vyacheslav Shaldaev
Development of corrosion pits on 20Kh13 steel

s06-P-013
Hercilio Gomes de Melo (Polytechnic School of the University of Sao Paulo, Sao Paulo, Brazil), Idalina V. Aoki, M.F. Montemor, Luis M. Palomino, Patricia H. Suegama
Investigation of the anticorrosion performance of modified and unmodified silane layers on Al 2024-T3 alloy

s06-P-014
Hercilio Gomes de Melo (Chemical Engineering Department of the Polytechnic School of the São Paulo University, São Paulo, Brazil), Idalina Vieira Aoki, Rocio Hernandez Bendezu, Hercilio Gomes de Melo, Marina Martins Mennucci
EIS investigation of the corrosion behavior of pure copper in chloride solution under thin layer electrolytes.

s06-P-015
Rodrigo de Santis Neves (Institute of Chemistry of São Carlos, São Carlos, Brazil), Artur de Jesus Motheo
Electrochemical study of aluminium alloys modified with octadecyltrimetoxysilane self assembled monolayers

s06-P-016
Andreas Dubbe ((Temporarily no Affiliation), Bayreuth, Germany)
Electrochemical impedance of Na-ZSM-5/Cr_2O_3 interfaces in relation to hydrocarbon gas sensor applications

s06-P-017
David Duday (Département de Science et Analyse des Matériaux -Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Juliano N. Borges, Patrick Choquet, Emmanuel Rocca
Corrosion resistance of atmospheric plasma treated copper with two different precursors hexamethyldisilazane and hexamethyldisiloxane and effect of bilayer films

s06-P-018
David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Patrick Choquet, Henri-Noël Migeon, Emmanuel Rocca
Corrosion resistance of galvanised steel treated by carboxylatation and/or atmospheric plasma

s06-P-019
David Duday (Département de Science et Analyse des Matériaux, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg), Chems-Eddine Barchiche, Patrick Choquet, Brahime El-Adib, Jérome Guillot, Emmanuel Rocca
Corrosion resistance and galvanic coupling with tin of FeCoNi alloy treated by atmospheric plasma or by carboxylatation

s06-P-020
Inês Fonseca (CCMM, Departamento de Química e Bioquímica, Lisboa, Portugal), R. Figueira, E. Pereira, M. Salta
Galvanic sensors for monitoring the corrosion in solutions simulating concrete conditions in aggressive environment

s06-P-021
Cecilio Sadao Fugivara (Fisico-Quimica, Instituto de Quimica-UNESP, Araraquara, Brazil), Assis Vicente Benedetti, Monica Sumie Okuda, Paloma Cardoso da Rosa, Monica Freitas da Silva
Study of the efficiency of VCI to protect Galvannealed against corrosion
s06-P-022
José García-Antón (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Rafael Leiva, Maria José Muñoz-Portero

Variations in the pitting potential of sensitized Alloy 900 in aqueous lithium bromide concentrated solutions.

s06-P-023
José García-Antón (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Encarnación Blasco-Tamarit, Dionisio García-García

Effect of solution temperature on pitting corrosion of high-alloyed austenitic stainless steel weldments in aqueous LiBr solutions.

s06-P-024
Sergio González (Department of Physical Chemistry, La Laguna (Tenerife), Spain), Ricardo M. Souto

Examination of organic coatings on metallic substrates by scanning electrochemical microscopy using oxygen as redox mediator.

s06-P-025
Jérôme Gravier (CEA, Is-sur-Tille, France), Stéphanie Bissey-Breton, José Farré, Vincent Vignal

Long time ageing of machined surfaces in salt fog atmosphere at room temperature.

s06-P-026
Jérôme Gravier (CEA, Is-sur-Tille, France), Stéphanie Bissey-Breton, José Farré, Vincent Vignal

Assessing the micro-electrochemical behaviour of machined surfaces using linear regression and Pearson’s correlation matrix.

s06-P-027
Virginia Guiñón Pina (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Anna Igual Muñoz

Influence of hydrogen discharge and temperature on the passivity of Nickel in LiBr solutions by means of Electrochemical Impedance Spectroscopy.

s06-P-028
Suzanne Joiret (LISE- UPR 15 du CNRS, Paris, France), Marie-Claude Bernard, Vincent Vivier

Reduction of rust layer on iron artifact investigated by Raman spectroscopy in a cavity ultramicroelectrode.

s06-P-029
Vladimir Jovic (Institute for Multidisciplinary Research, Belgrade, Yugoslavia)

The influence of the conditions of the ZrO₂ passive film formation on its properties in 1M NaOH.

s06-P-030
Zelin Li (Department of Chemistry, Hunan Normal University, Changsha, China), Shu Chen, Youping Chu, Jufang Zheng


s06-P-031
Jadranka Malina (Faculty of Metallurgy, University of Zagreb, Sisak, Croatia), Marijan Malina

Permeation Properties of Hydrogen Trapped in TRIP Steel.

s06-P-032
Iljana Miethe (Physik Department, Technische Universität München, Garching, Germany), Claudio Fontanesi, Matteo Frigieri, Katharina Krischer

Ellipsomicroscopic imaging of the electrodissolution of Si.

s06-P-033
Ingrid Milošev (Jožef Stefan Institute, Department of Physical and Organic Chemistry, Ljubljana, Slovenia), Edita Blazevic

Electrochemical and XPS study of Ni-based dental alloys in artificial saliva.
s06-P-034
Vesna Miskovic-Stankovic (Department of Physical Chemistry and Electrochemistry, Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia), Jelena Bajat, Zeljka Jovanovic
The Comparative Study of Silane Films on Aluminum: Electrochemical and Adhesion Characteristics

s06-P-035
Liana Maria Muresan (“Babes-Bolyai University”, Department of Physical Chemistry, Cluj-Napoca, Romania), Caius Bulea, Simona Varvara, Adriana Vlasa
Zn-TiO₂ nanocomposite coatings with improved corrosion behavior obtained by electrolytic codeposition

s06-P-036
Nathalie Ochoa (Departamento de Ciencia de los Materiales, Universidad Simon Bolivar, Caracas, Venezuela)
Influence of flow on the formation of inhibitive films

s06-P-037
Kevin Ogle (Laboratoire Physicochimie des Surfaces, CNRS, Paris, France), Christian Allely, Hanane Bouazaze, Moussa Naby Yattara
Direct Measurement of the Chemical Stability of the Zn/ZnO/Polymer Interface

s06-P-038
Helena Otmacic Curkovic (Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Katarina Marusic, Ema Stupnisek-Lisac, Hisasi Takenouti
EIS Study of Copper Corrosion Inhibition on RDE

s06-P-039
Maritza Paez (Departamento de Quimica de los Materiales, Facultad de Quimica y Biologia, Universidad de Santiago de Chile, Santiago, Chile), Jorge Pavez, Fabiola Pineda, Franco Rabagliati, Mamie Sancy, George Thompson, Esteban Vargas, Jose Zagal
Sol-gel zirconia coating modified by Al₂O₃ nanoparticles for protection of AA-2024 in chloride media

s06-P-040
Maritza Paez (Departamento de Quimica de los Materiales, Facultad de Quimica y Biologia, Universidad de Santiago de Chile, Santiago, Chile), Jorge Pavez, Fabiola Pineda, Franco Rabagliati, Mamie Sancy, George Thompson, Esteban Vargas, Jose Zagal
Sol-gel zirconia coating modified by α-Fe₂O₃ nanoparticles for protection of stainless steel in chloride media

s06-P-041
Mariano J. Pérez (Department of Physical Chemistry, La Laguna (Tenerife), Spain), G. Timothy Burstein, Ricardo M. Souto
Electrochemical processing of stainless steel surfaces in metasilicate solution for improved corrosion resistance

s06-P-042
Ricardo Pinto (ICEMS Instituto Superior Tecnico, Lisboa, Portugal), Maria Carmezim, Mario Ferreira, Fatima Montemor
Corrosion Behaviour of Magnesium Alloys and The Influence of Rare Earths as Alloying Elements

s06-P-043
Cristian Pirvu (University Politehnica Bucharest, Bucharest, Romania), Ioana Demetrescu, Mihaela Mindroiu, Simona Popescu
Electrochemical Synthesis and Characterization of Corrosion Protective Coatings for Zinc-Coated Steel Surfaces

s06-P-044
Marcin Pisarek (Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw, Poland), Maria Janik-Czachor, Piotr Kodzierzawski, Krzysztof J. Kurzydlowski
Electrochemical, Microscopic, and Surface Analytical Investigations of Hydrostatically Extruded Austenitic Stainless Steels
s06-P-045
Nebojsa Potkonjak (Institute of General and Physical Chemistry, Belgrade, Serbia), Slobodan Anic, Stevan Blagojevic, Tanja Potkonjak, Danijela Randjelovic
Application of AFM in Better Understanding of Electrochemical Current Oscillations - Case Study of Cu / 0.5 M TFA Oscillator

s06-P-046
Ursula Rammelt (Excor Korrosionsforschung GmbH, Dresden, Germany), Silvio Koehler, Georg Reinhard
Use of Vapor-phase Corrosion Inhibitors (VCIs) in Packages for Protecting Mild Steel against Corrosion

s06-P-047
Emmanuel Rocca (Universite Henri Poincare Nancy 1 Laboratoire de Chimie du Solide Mineral, Vandoeuvre les Nancy, France), Chems-Eddine Barchiche
Plasma electrolytic oxidation of AZ91D alloy: Effect of phosphate ions in electrolyte on microstructure and corrosion

s06-P-048
Emmanuel Rocca (Universite Henri Poincare Nancy 1, Laboratoire de Chimie du Solide Mineral, 54506, France), Chems-Eddine Barchiche
Role of KF on the plasma electrolytic anodization on magnesium: corrosion resistance of anodized AZ91D alloy in KOH-based electrolyte

s06-P-049
Monika Santa (Interface Chemistry and Surface Engineering, Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany), Guido Grundmeier, Ralf Posner
Surface Enhanced Raman Spectroscopy and Scanning Kelvin Probe Studies of Corrosive De-adhesion at Polymer-Metal Interfaces

s06-P-050
Ana Isabel Santana (Federal University of Rio de Janeiro, Rio de Janeiro, Brazil), Oswaldo Barcia, Susana Diaz, Oscar Mattos
The Influence of Solution pH on the Anomalous Electrodeposition of NiFe Alloys in Sulfate Electrolytes

s06-P-051
Dimitra Sazou (Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece), Michael Pagitasas, Maria Pavlidou
Iodide Effects on Fe Passivity: Localized Corrosion, Iodide Electro-oxidation, Phase Transitions and Oscillatory States

s06-P-052
Dimitra Sazou (Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece), Marianna Kourouzidou, Dimitra Sazou
Dynamical Response of the Fe|HNO₃ Electrochemical System as a Function of the Potential and Concentration of HNO₃

s06-P-053
Ricardo M. Souto (Department of Physical Chemistry, La Laguna (Tenerife), Spain), Sergio Gonzalez, Yaiza González-García
Imaging the early stages of coating breakdown in corrosive environments

s06-P-054
Priscila Tamiasso-Martinhon (UPR15-CNRS, Laboratoire Interfaces et Systèmes Electrochimiques, University Pierre et Marie Curie, Paris, France), Claude Deslouis, Claude Gabrielli
Amorphous Carbon Nitride (a-CNx) Films as Corrosion Protection Barriers for Steels

s06-P-055
Hiroaki Tsuchiya (Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka, Japan)
Fabrication and characterization of structural and functional anodic oxide layers
POSTERS

s06-P-056
Lidija Valek (Faculty of Chemical Engineering and Technology, Zagreb, Croatia), Sanja Martinez, Marijana Serdar
Investigation of Ascorbic Acid Influence on Steel Passivity in Sat. Ca(OH)$_2$

s06-P-057
Carlos Valero Vidal (Dept. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain)
Influence of potential on the electrochemical behaviour of CoCrMo alloy in simulated body fluids by Electrochemical Impedance Spectroscopy (EIS)

s06-P-058
Jean-Francois Vanhumbeeck (Division of Materials and Process Engineering/Université Catholique de Louvain, Louvain-la-Neuve, Belgium), Joris Proost
Influence of the applied current density on the growth stress evolution in anodic TiO$_2$ films

s06-P-059
Idalina Vieira Aoki (Departamento de Engenharia Química/Escola Politécnica da Universidade de São Paulo, São Paulo, Brazil), Isabella Pacífico Aquino
Comparison of Acidic Rinsing Purification Methods Concerning Biodiesel Corrosiveness to Five Different Metals of the Fuel Circuit in Automobile Motors

s06-P-060
Jorge O. Zerbino (Instituto de Fisicoquímica, INIFTA, La Plata, Argentina), Maria G. Sustersic, Rosa M. Torres Sanchez
Enhanced roughness of copper after reduction of cuprous oxide films grown in oxalate-containing aqueous solution

s06-P-061
Monica Santamaria (Università di Palermo, Palermo, Italy), Francesco Di Quarto, Francesca Muratore
Growth and characterization of anodic films on Sc in aqueous solutions

Symposium 7: Industrial Electrolysis, from the Laboratory to Industry: State of the Art and Innovation in Electrode Materials, Membranes, Electrolytes and Processes

s07-P-001
Tim Aerts (Vrije Universiteit Brussels, Department Materials and Chemistry, Brussels, Belgium), Iris De Graeve, Johan Deconinck, Erik Dick, Slawomir Kubacki, Gert Nelissen, Herman Terryn
Temperature and heat transfer during an electrochemical process: A novel approach in studying influence of temperature on anodizing of aluminium.

s07-P-002
Liana Anicai (Div.of Ecological Technologies Development, Petromservice SA, Bucharest, Romania), Andreea Florea, Roxana Dumitrache, Mihai Dutu, Teodor Visan
Synthesis and Electrochemical Characterization of Some Ionic Liquids Containing V and Mo Compounds

s07-P-003
Nizar Aouina (LISE-UPR15 CNRS,UPMC, Paris, France), Hubert Cachet, Catherine Debiemme-Chouvy, Claude Deslouis, Thi Tuyet Mai Tran
Electrocatalytic reduction of nitrate on copper electrode

s07-P-004
Olga Babushkina (ECHEM Center of Competence in Applied Electrochemistry, Wiener Neustadt, Austria), Silvia Ekres, Eugenia Lomako, Gerhard Nauer
Electrochemistry of Niobium(V) in Ionic Liquids
s07-P-005
J. Benavente (Dep. de Física Aplicada I, Facultad de Ciencias, Univ. de Málaga, Málaga, Spain), I. M. Coelho, J. Crespo, R. Fortunato, L. Neves, M. I. Vázquez
Effect of water content on C₈MIMPF₆ RTIL electrical resistance: time evolution

s07-P-006
J. Benavente (Dep. de Física Aplicada I, Facultad de Ciencias, Univ. de Málaga, Málaga, Spain), S. Bijani, I.M. Coelho, J. Crespo, L. Neves, Martinez Yuso
Electrochemical characterization of modified Nafton-H⁺ membranes by incorporation of a room temperature ionic liquid cation

s07-P-007
Raul Berenguer (Departamento de Química Física e Instituto Universitario de Materiales de Alicante, Alicante, Spain), Emilia Morallón, César Quijada
Preparation and characterization of SnO₂ electrodes doped with Ru and Pt

s07-P-008
Isarain Chavez (Departament de Quimica Fisica/Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Pere L. Cabot, Francesc Centellas, Jose A. Garrido, Rosa M. Rodriguez
Removal of the β-blocker drug atenolol by electro-Fenton and photoelectro-Fenton processes

s07-P-009
Lurdes Ciríaco (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Carlos Anjo, Ana Lopes, Maria José Pacheco
Electrodegradation of Clofibric Acid with BDD and Ti/Pt/PbO₂ Anodes

s07-P-010
Alexei Davydov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russian Federation), Vladimir Volgin
Effect of centrifugal and Coriolis forces on mass transfer in rotating cylindrical annulus with vertical electrodes

s07-P-011
Ana Isabel del Río (Departamento de Ingeniería Textil y Papelera/Escuela Politécnica Superior de Alcoy (UPV), Alcoy (Alicante), Spain), Mª José Benimeli, José Bonastre, Francisco Cases, Javier Molina
Study about the electrochemical behaviour of mono- and bifunctional reactive dyes in simulated textile wastewaters

s07-P-012
Metehan Erdogan (Department of Metallurgical and Materials Engineering / Middle East Technical University, Ankara, Turkey), Ishak Karakaya
Tungsten Production by Electrodeoxidation

s07-P-013
Miroslav Gal (J. Heyrovsky Institute of Physical Chemistry of ASCR, v.v.i., Prague, Czech Republic), Michaela Benova, Jan Hives, Dalibor Uher
Transfer of Charge through the Stirred Heterogeneous System: EIS Study

s07-P-014
Luciano Gomes (Instituto de Química de São Carlos / Universidade de São Paulo, São Carlos, Brazil), Geoffroy Roger Pointer Malpass, Douglas Waychi Miwa, Artur de Jesus Motheo
Electrochemical degradation of Reactive Orange 16 using two different electrode materials

s07-P-015
Elena Guinea (Departament de Quimica Fisica/Universitat de Barcelona, Barcelona, Spain), Conchita Arias, Enric Brillas, Pere L. Cabot, Francesc Centellas, Jose A. Garrido, Rosa M. Rodriguez
Fe(III) and Sunlight Effects on the Anodic Oxidation of Carboxylic Acids with a Boron Doped Diamond Anode

s07-P-016
Remigijus Juskenas (Institute of Chemistry, Vilnius, Lithuania)
Phase Composition of Heat-Treated Ni-W Coatings
s07-P-017
Man Kim (Department of Surface Technology, Korea Institute of Materials Science, Changwon, Korea), Sik-Chol Kwon, Joo-Yul Lee
Optimization of Chromium Electroplating Parameters by Current Density Distribution Modeling

s07-P-018
Bahadir K. Körbahti (University of Mersin, Mersin, Turkey)
Anodic Oxidation of Oil/Water Emulsions using Pt/Ir Electrodes

s07-P-019
Engracia Lacasa (Chemical Engineering Department, University of Castilla la Mancha, Ciudad Real, Spain), Pablo Cañizares, Engracia Lacasa, Rubén López-Vizcaíno, Manuel Andres Rodrigo, Cristina Sáez
Electrochemical Oxidation for the Tertiary Treatment of Urban Wastewaters

s07-P-020
Joo-Yul Lee (Department of Surface Technology, Korea Institute of Materials Science, Changwon, Korea), Man Kim, Hye-Jin Park
The Effect of Additives on the Copper Electroplating with Pulse and Reverse Pulse

s07-P-021
Ezequiel Pedro Marcos Leiva (Unidad de Matemática y Física, Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina), Marcelo Mario Mariscal, Mariana Isabel Rojas
Computer simulation of the effective double layer presents at the catalytic surface under electrochemical promotion conditions

s07-P-022
V. Montiel (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), A. Aldaz, E. Expósito, J.M. Ortiz, D. Valero
Electrocoagulation of a synthetic textile effluent powered by photovoltaic energy without batteries: direct connection behaviour

s07-P-023
V. Montiel (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), F. Bosch, E. Expósito, V. García-García, A. Jimenez, A. Pérez, A. Saez, A. Valero
Electrochemical treatment of galvanic effluents: a realistic approach between basic research and industrial behaviour

s07-P-024
Antonio Angel Moya (Departamento de Física, Universidad de Jaén, Jaén, Spain), José Alberto Moleón
Application of the Network Simulation Method to the Study of the Intensification of Electrodialysis

s07-P-025
Jose Luis Olloqui-Sariego (Dpto. Química Física, Facultad de Química, Universidad de Sevilla, Sevilla, Spain), Manuel M. Domínguez, Domingo González-Arjona, Víctor M. Molina, Emilio Roldán
Voltammetric and Electrolytic Study of Carbon Tetrachloride Electrochemical Carboxylation

s07-P-026
Emma Ortega (Dpt. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Isaac Herraiz-Cardona, Valentín Perez-Herranz
Effect of concentration, pH and boric acid on the zinc transport properties through a cation-exchange membrane

s07-P-027
Juan M. Ortiz (Departamento de Química Física, Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Eduardo Expósito, Francisco Gallud, Vicente García-García, Vicente Montiel
Solar photovoltaic electrodialysis for brackish groundwater desalination

s07-P-028
Vladimir Panic (ICTM - Center for Electrochemistry, Belgrade, Serbia), Vesna B. Miskovic Stankovic, Branislav Nikolic
Ternary RuO$_2$–TiO$_2$–IrO$_2$ Coatings on Titanium Prepared from Inorganic Oxide Sol
s07-P-029
Pier Parpot (Department of Chemistry, University of Minho, Braga, Portugal), Ana Paula Bettencourt, Venceslau Muiuane
Oxidation of mono and disaccharides in FM01-LC flow cell in alkaline medium

s07-P-030
Alejandro Peraza (Electrochemistry department, Centro de Investigación y Desarrollo Tecnológico en Electroquímica S.C., Pedro Escobedo, Mexico), Thomas Chapman, Yunny Meas, Luis Ortiz
Quantitative Phase Analysis of Electrochemical Deposits of Calcium Carbonate by the Rietveld Method

s07-P-031
Aurora Petica (INCDIE ICPE-Advanced Research, Bucharest, Romania), Liana Anicai, Roxana Dumitrache, Andreea Florea
Some Aspects Regarding Silver Electrodeposition From Choline Chloride Based Ionic Liquids

s07-P-032
Anna Maria Polcaro (Dipartimento di Ingegneria Chimica e Materiali, Cagliari, Italy)
Removal of organic compounds by electrochemical and photo assisted electrochemical processes: a kinetic study.

s07-P-033
Alejandro Recéndiz (Departamento de Química. Universidad Autónoma Metropolitana-Iztapalapa, México, D.F., Mexico), Ricardo Benavides, Adolfo Fuentes, Ignacio González, José Luis Nava
Formation and Electrochemical Behavior of MnO2 Anodically Formed During the Zinc Electrowinning Process

s07-P-034
Iranildes Santos (Metallurgical and Materials Engineering/COPPE/UFRJ, Rio de Janeiro, Brazil), Júlio Afonso, Achilles Dutra
The Influence of Calcination Temperature of a Ti/Sno2-Sb Electrode Manufactured by Pechini’s Method on Phenol Electrooxidation

s07-P-035
Rakesh Tyagi (Ionic Liquids, Wiener Neustadt, Austria), Gerhard E. Nauer
Applications of Imidazolium based Ionic liquids as electrolytes in electrodeposition processes

s07-P-036
Rakesh Tyagi ( Ionic Liquids, Wiener Neustadt, Austria), Gerhard E. Nauer
Electrodeposition of chromium through choline chloride based ionic liquid

s07-P-037
Teodor Visan (Department of Applied Physical Chemistry and Electrochemistry, University Politehnica Bucharest, Bucharest, Romania), Liana Anicai, Anca Cojocaru, Stefania Costovici, Stefan Stanciu
Electrochemical Studies of Cathodic Processes During Ni-Sn Alloy Preparation Using Choline Chloride Based Ionic Liquids

s07-P-038
Vladimir Volgin (Tula State University, Tula, Russian Federation), Alexei Davydov
The effect of magnetic field on stability of combined bulk electroconvection and gravitational convection of binary electrolyte

s07-P-039
Vladimir Volgin (Tula State University, Tula, Russian Federation), Alexei Davydov
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Claudia Weidlich (DECHEMA e.V., Frankfurt, Germany)
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José Luís Xavier (Universidade Federal do Rio Grande do Sul, Escola de Engenharia/Departamento de MateriaisLACOR - Laboratório de Corrosão, Proteção e Reciclagem de Materiais, Porto Alegre, Brazil), Andrea Moura Bernardes, Jane Zoppas Ferreira, Marco Antonio Rodrigues
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Yusuf Yavuz (Dept. of Environmental Engineering, Eskisehir, Turkey)
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s08-P-002
Francisco Alcaide (CIDETEC-IK4, San Sebastián, Spain), Garbiñe Álvarez, Hans Jürgen Grande, Óscar Miguel
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Nadezda Alexeyeva (Institute of Chemistry, University of Tartu, Tartu, Estonia), Juan M. Feliu, Ana Lopez-Cudero, Jose Solla-Gullón, Kaido Tammeveski
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Luis Alberto Avaca (Instituto de Quimica de Sao Carlos, Universidade de Sao Paulo, Sao Carlos, Brazil), Marcelo Luiz Calegaro, Milena Elias Teixeira
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Zahra Barzgari (Department of Chemistry, University of Birjand, Birjand, Iran (Islamic Republic of))
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Michael Bayer (Electrochemistry Laboratory /Paul Scherrer Institut, Villigen, Switzerland), Günther Scherer, Ingo Schneider, Alexander Wokaun
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Martin Bojinov (Department of Physical Chemistry University of Chemical Technology and Metallurgy, Sofia, Bulgaria), V. Koleva, M. Mladenov, R. Stoyanova, E. Zhecheva, P. Zlatilova
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s08-P-014
Marian Chatenet (Laboratoire d’Electrochimie et de Physicochimie des Matériaux et des Interfaces LEPMI, UMR 5631 CNRS-INPG-UJF, Saint-Martin d’Hères, France), Jean-Paul Diard, Maria Belen Molina-Concha, Gaëlle Parrou
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Marie-Noëlle Collomb (Département de Chimie Moléculaire, UMR-5250, ICMG FR-2607, CNRS, Université Joseph Fourier, Grenoble Cedex 9, France), Devadoss Amilan Jose, Jérôme Chauvin, Alain Deronzier, Jean Lombard
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Eveline De Robertis (Combustion and Propulsion Laboratory, National Institute for Space Research, Cachoeira Paulista, Brazil), Demétrio Bastos-Netto
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Aleksandar Dekanski (IHTM Department of Electrochemistry, Beograd, Serbia), Snezana Gojkovic, Maja Obradovic, Vladimir Panic
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Beata Dembinska (Department of Chemistry, University of Warsaw, Warsaw, Poland), Pawel J. Kulesza, Marta Ratter
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Nevenka Elezovic (Institute for Multidisciplinary Research, Department for Materials and Energy Conversion, Belgrade, Serbia), Biljana Babic, Nedeljko Krstajic, Velimir Radvilovic, Liliana Vracar
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Seungwook Eom (Battery Research Group, Korea Electrotechnology Research Institute, Changwon, Korea), Seyoung Ahn, Ketack Kim, Hyunsoo Kim
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Yongjun Feng (Laboratory of Electrocatalysis, UMR-CNRS 6503, University of Poitiers, Poitiers, France), Nicolas Alonso-Vante, Ting He
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Kênia Freitas (Instituto de Química de São Carlos, Departamento de físico-Química, São Carlos, Brazil), Edson Ticianelli
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Edoardo Guerrini (University of Milan, Department of Physical chemistry and Electrochemistry, Milan, Italy), Alessandra Colombo, Matteo Duca, Sergio Trasatti
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Vladimir Guterman (Chemistry Department, Southern Federal University, Rostov-on-Don, Russian Federation), Sergey Belenov, Olga Dymnikova, Andrey Guterman, Yuriy Kabirov, Igor Leontiev, Elena Pahornova
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Claudio Gutierrez (Institute of Physical Chemistry “Rocasolano”, CSIC, Madrid, Spain)
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Eiji Higuchi (Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Osaka, Japan), Hiroshi Inoue, Kazumasa Miyata, Shinji Nohara
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Kim Hyoung-Kwon (Dept. Materials Science and Engineering, Chonnam National University, Gwangju, Korea), Hyun-Jai Lee, Chan-Jin Park, Choong-Nyeon Park
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Boyano Iker (Energy/GIDETEC, SAN Sebastian, Spain)
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Jong Hyun Jang (Center for Fuel Cell Research, Korea Institute of Science and Technology, Seoul, Korea), EunAe Cho, Kun-Ho Kim, Kwan-Young Lee, Sang-Young Lee, Tae-Hoon Lim
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Frédéric Jaouen (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet, Shuhui Sun
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Kwan-Woo Jung (Dept. Materials Science and Engineering, Chonnam National University, Gwangju, Korea), Jeon Choi, Chan-Jin Park, Choong-Nyeon Park, Dong-Cheol Yang
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Ketack Kim (Battery Research Group, Korea Electrotechnology Research Institute, Changwon, Korea)
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Jandee Kim (Department of Applied Chemistry Waseda University, Tokyo, Japan), Tomoki Kawano, Toshiyuki Momma
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Ji-Young Kim (Department of Material Science and Engineering, Yonsei University, Seoul, Korea)
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Soo-Kil Kim (Center for Fuel Cell Research, Korea Institute of Science and Technology (KIST), Seoul, Korea), Baeck Choi, Heung Yong Ha, Joghee Prabhuram, M. Aulice Scibioh, Yung-Eun Sung
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Ákos Kriston (Department of Physical Chemistry, Institute of Chemistry, Eötvös Loránd University, Budapest, Hungary), István Faragó, György Inzelt, Tamás Szabó
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Chang Kuo-Hsin (Laboratory of Electrochemistry and Advanced Materials, Department of Chemical Engineering, National Tsing Hua University, Hsin-Chu, Taiwan), Chou Chih-Yin
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Jae Kwang Lee (Department of Environmental Science and Engineering / Gwangju Institute of Science and Technology (GIST), Gwangju, Korea), Hongrae Jeon, Jaeyoung Lee
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michel lefevre (INRS-EMT, Varennes, Canada), Jean-Pol Dodelet
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Dong Chan Lim (Department of surface Technology/Korea Institute of Materials Science, Changwon, Korea)
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Mariangela Longhi (Department of Physical Chemistry and Electrochemistry, University of Milano, Milano, Italy), Leonardo Formaro, Ivano Galbiati
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Kírian Lopes (Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil), Edson Leite, Elson Longo, Flávio Souza
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Ana López-Cudero (Instituto Universitario de Electroquímica, Universidad de Alicante, Alicante, Spain), Antonio Aldaz, Juan M. Feliu, Enrique Herrero, Jose Solla-Gullón
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Chun’an Ma (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China), Jiangfeng Sheng
Platinum Particles Supported on Tungsten Carbides as Electrocatalysts for Methanol Oxidation

Sang Bok Ma (Department of Materials Science and Engineering / Yonsei University, Seoul, Korea), Sung Min Park, Kwang Bum Kim, Kyung Wàn Nam, Xiao Qing Yang, Won Sub Yoon
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Natalia Mayorova (A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russian Federation), Olga Khazova, M. Kislov, Anatolii Krestinin, Elena Tusseeva
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Eguchi Mika (Faculty of Engineering, Ibaraki University, Hitachi, Japan), Taku Suzuki, Katsuhiko Uno, Tsutsumi Yasuyuki
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Pierre Millet (Institut de Chimie Moléculaire et des Matériaux d’Orsay, Université de Paris XI, Orsay, France), Kirill Djous, Vladimir Fateev, Sergey Grigoriev
Bi-functional electrocatalytic layers and gas diffusion electrodes for application in reversible PEM cells

Shokufeh Moghiminia (Department of Chemistry, University of Birjand, Birjand, Iran (Islamic Republic of)), Raissy Heidar
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Maria Belen Molina Concha (Laboratoire d’Electrochimie et de Physicochimie des Matériaux et des Interfases, LEPMI, CNRS-INPG-UJF, St. Martin d’Hères, France), Marian Chatenet
Sodium borohydride direct oxidation for Pt, Ag and alloyed Pt-Ag in sodium hydroxide electrolyte

Enrique Morales (Instituto de Ciencia y Tecnología de Polímeros (CSIC), Madrid, Spain), Jose Luis Acosta, Danielle Esperanza Pacheco-Catalán
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Masafumi Nose (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Kyoto, Japan), Takeshi Abe, Hyun-Suk Choo, Yasutoshi Iriyama, Taro Kinumoto, Zempachi Ogumi
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Ayodele Okunola (Analytische Chemie - Elektroanalytik & Sensorik; Ruhr-Universität Bochum, Bochum, Germany), Michael Bron, Barbara Kowalewska, Pawel Kulesza, Wolfgang Schuhmann
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Reynaldo Ortiz (Universidad de Los Andes, Merida, Venezuela)
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Lars-Erik Owe (Department of Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway), Ingrid Anne Lervik, Tone Hansen Stabell, Svein Sunde, Mikhail Tsyarkin, Reidar Tunold
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Sung Bin Park (a Department of Materials Science & Engineering College of Engineering, Korea University, Seoul, Korea), Won Il Cho, Wan-Gyu Lee, Ho Chul Shin, Ho Jang
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s08-P-088
Sivakumar Pasupathi (South African Institute for Advanced Materials Chemistry SAIAMC), Bellville, South Africa), Vladimir Linkov, Xolelwa Ralam
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Ernesto Pereira (Chemistry Dept. Universidade Federal de Sao Carlos, Sao Carlos, Brazil), Renato Freitas
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Jose Manuel Porras-Vazquez (Departamento Química Inorgánica, Cristalografía y Mineralogía, Malaga, Spain), M.A.G. Aranda, Laura Leon-Reina, Enrique R. Losilla
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s08-P-091
Mauricio Javier Prieto (Instituto de Química de Sao Carlos/Universidade de Sao Paulo, Sao Carlos, SP, Brazil)
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s08-P-092
Paola Quaino (Programa de Electroquimica Aplicada e Ingenieria Electroquimica (PRELINE), Facultad de Ingenieria Quimica, Universidad Nacional del Litoral, Santa Fe, Argentina), Abel Chialvo, María Rosa Gennero de Chialvo, María Sol Rau
Study of the Hydrogen Electrode Reaction on Ruthenium Electrodes: Evaluation of the Polarization Resistance as a Function of the Proton Activity

s08-P-093
Miguel A. Ridao (Dpto. Ingenieria de Sistemas y Automática. Universidad de Sevilla, Seville, Spain), Carlos Bordons, Eduardo López, David Marcos
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Angel Rodriguez Pierna (Chemical Engineering and Environment Department, San Sebastian, Spain)
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s08-P-095
Victor Roev (E&EL/SAIT, Suwon, Korea)
PtCo/C electrocatalysts on the base of graphitized carbons for middle temperature PEMFC

s08-P-096
Zbigniew Rogulski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Maciej Chotkowski, Justyna Giszczak, Malgorzata Karwowska, Martin Krebs, Eduard Pytlík
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s08-P-097
Zbigniew Rogulski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Angelika Gumkowska, Jan Kotowski, Martin Krebs, Eduard Pytlík
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s08-P-098
Vanesa Ruiz (Instituto Nacional del Carbón, CSIC, Oviedo, Spain), Clara Blanco, Marcos Granda, Rosa Menéndez, Ricardo Santamaría, Isabel Villar
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s08-P-099
Young-Gyoon Ryu (Energy and Environment Lab., Samsung Advanced Institute of Technology, Youngin-si, Gyeonggi-do, Korea), Mah Sang Kook, Doo Seok Gwang, Lee Seok Soo
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Ada Saccà (CNR-ITAE, Messina, Italy), Alessandra Carbone, Paolo Fracas, Irene Gatto, Enza Passalacqua, Rolando Pedicini
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Alfonso Saez (Instituto de Electroquímica, Universidad de Alicante, Alicante, Spain)
Direct Formic Acid Fuel Cell catalyst: Bi-modified carbon supported Pt nanoparticles
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Annukka Santasalo (Laboratory of Physical Chemistry and Electrochemistry, Helsinki University of Technology, Helsinki, Finland), J. M. Feliu, T. Kallio, K. Kontturi, J. Solla-Gullón, F. J. Vidal-Inglesias
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Elisabet Inacio Santiago (Energy and Nuclear Research Institute, CCCH, IPEN/CNEN-SP, São Paulo, Brazil), Mauro Andre Dresch, Fabio Coral Fonseca, Roberta Alvarenga Isidoro, Marcelo Linardi
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Jesus Santos (Department of Inorganic Chemistry, Cordoba, Spain), Thierry Brousse, Olivier Crosnier, Sylvain Franger, Julian Morales, Rafael Trocoli
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Josef Schefold (European Institue for Energy Research (EIfER), Karlsruhe, Germany), Annabelle Brisse, Mohsine Zahid
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Thorsten Schilling (Technische Universität DarmstadtErnst-Berl-Institut, TC II, Darmstadt, Germany)
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Marco Villa (Dipartimento di Progettazione e Tecnologie, Dalmine, Italy), Paolo Salvi, Erwin Verardi, Giovanni Zangari
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Lianbang Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China)
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Lianbang Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China)
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Lianbang Wang (State Key Laboratory Breeding Base of Green Chemistry-Synthesis Technology, College of Chemical Engineering and Materials Science, Hangzhou, China)
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Rocio Romero (Fisica Aplicada I Universidad de Malaga, Malaga, Spain), Lourdes Martinez, Dietmar Leinen, Francisco Martin, Mercedes Gabas, Jose Ramos-Barrado
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Yanhua Cui (Institute of Electronic Engineering, China Academy of Engineering Physics, Sichuan, China), Zhenwen Fu, Xiaolin Wang, Hua Zhang, Yongning Zhou
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s09-P-002
Mitsuru Higa (Yamaguchi University, Ube, Japan), Nobutaka Endo, Shin-ichi Maesowa, Mkinori Sugita
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María Guadalupe Arroyo-Núñez (Departamento de Ingeniería Química y Nuclear, Universidad Politecnica de Valencia, Valencia, Spain), José García Antón, José Luis Guiñón Segura, María Teresa Montañés Sanjuán, Valentín Pérez Herranz  
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Manuel J. Barrera Niebla (Physical Chemistry Department, University of La Laguna, La Laguna, Spain), Luis C. Fernández Mérida, Margarita R. García Hernández, Domingo M. Grandoso Medina, J. César Rodríguez Placeres, Graciliano M. Ruiz Cabrera  
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Andrzej Bobrowski (AGH - University of Science and Technology, Department of Building Materials Technology, Faculty of Materials Science and Ceramics, Kraków, Poland), Pawel Kapturski  
Constant Current Stripping Chronopotentiometry at the Cyclic Renewable Mercury Film Silver Based Electrode

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Nieves Casañ-Pastor (ICMAB-CSIC, Bellaterra, Spain)  
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Omar Teschke  
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Wyllerson Evaristo Gomes, Mariana Rodrigues Peres, David Mendez Soares  
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Karen Esquivel (Electrochemistry Department, Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S. C., Pedro Escobedo, Mexico)  
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Orlando Fatibello-Filho (Department of Chemistry, Universidade Federal de São Carlos, São Carlos, Brazil), Elen Sartori, Roberta Medeiros  
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Meital Goor (Electrochemistry, Tel-Aviv, Israel), Emanuel Peled
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Boris M. Grafov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Sciences, Moscow, Russian Federation)
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Paula Grez (Instituto de Química, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile), Regina Cisternas, Ricardo Córdova, Rodrigo Henríquez, Ricardo Schreblter
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Rui Gusmão (Departament de Química Analítica, Universitat de Barcelona, Barcelona, Spain), Cristina Ariño, José Díaz-Cruz, Miquel Esteban
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Gul Hisarli (Istanbul University, Istanbul, Turkey), Kenan Cinku, Sevgi Kocaoba, Elif Levent
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Daisuke Ihara (Graduate School of Engineering Science, Osaka University, Osaka, Japan)
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Akbar Islamnezhad (Dept of Chemistry, Faculty of Science, University of Guilan, Rasht, Iran (Islamic Republic of)), Mohammad Ali Zanjanchi
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Puy Jaume (Chemistry Department Lleida University, Lleida, Spain)
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Maria Jitaru (Associated Francophone Laboratory, Faculty of Chemistry and Chemical Engineering/Babes-Bolyai University, Cluj-Napoca, Romania), Mihaela Tertis, Mariana Toma
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Keith Johnson (Department of Chemistry and Biochemistry, University of Regina, Regina, Canada)
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Borka Jovic (Institute for Multidisciplinary Research, Belgrade, Yugoslavia), Uros Lacnjevac
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Marzena Kaniewska (Warsaw University, Department of Chemistry, Warsaw, Poland), Marek Trojanowicz
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Ghasem Karim-Nezhad (Department of Chemistry, Khoy, Iran (Islamic Republic of)), Mohammad Hasanzadeh, Lotfali Saghatforoush, Nasrin Shadjo
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Ioannis Katsounaros (Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece), Maria Dortsiou, Christos Polatides
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**s10-P-043**
Ioannis Katsounaros (Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece), Maria Dortsiou, Christos Polatides
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Chong Yong Lee (School of Chemistry, Monash University., Clayton, Melbourne, Australia), Alan M Bond, Si-Xuan Guo, Keith B Oldham
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Grzegorz Lisak (Laboratory of Analytical Chemistry, Åbo Akademi University, Åbo, Finland), Johan Bobacka, Ewa Grygolowicz - Pawlak, Andrzej Lewenstam, Elżbieta Malinowska, Marta Mazurkiewicz, Tomasz Sokalski
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Ana Lopes (Department of Chemistry, University of Beira Interior, Covilhã, Portugal), Lurdes Ciríaco, Isolina Gonçalves, Sandra Sobreira
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Pedro Maciel (Vrije Universiteit Brussel, Faculty of Engineering, Dept. of Electrical Engineering, IR, ETEC, Brussels, Belgium), Tim Aerts, Daan Deconinck, Johan Deconinck
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Itamar Malkowsky (BASF SE, Ludwigshafen, Germany), A Alemany, X Zhang
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Anderson Marc (UW-Madison, Madison, USA), Fabiana Paschoal, Greg Pepping, Maria Valnice Zanoni
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Alberto Martínez (Departamento de Química/Universidad de Burgos, Burgos, Spain), Alvaro Colina, Robert A.W. Dryfe, Virginia Ruiz
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Hadar Mazor (Electrochemistry Department, Tel Aviv, Israel), Diana Golodnitsky, Emanuel Peled, Bruno Scrosati, W. Wieczorek
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Yunny Meas (Centro de Investigación y Desarrollo Tecnológico en Electroquímica (CIDETEQ), Sanfandila Pedro Escobedo, Mexico), Patricia Díaz, Alia Méndez-Albores, Raúl Ortega, Gabriel Trejo
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Simone Morais (Requimte, Instituto Superior de Engenharia do Instituto Politécnico do Porto, Departamento de Engenharia Química, Porto, Portugal), Cristina Delerue-Matos
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Yoshiharu Mukouyama (Department of Natural Sciences, College of Science and Engineering, Tokyo Denki University, Hatoyama, Saitama, Japan), Hiroshi Okamoto
Hydrogen evolution reaction affected anomalously due to addition of salt

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Ignacio Naranjo-Rodriguez (Department of Analytical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, José Luis Hidalgo-Hidalgo de Cisneros, José María Palacios-Santander
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Cristiane Oliveira (Universidade Federal de São Carlos, São Carlos, Brazil), M L Cardoso, A. J.A. Oliveira, E C Pereira
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Emma Ortega (Dpt. Ingeniería Química y Nuclear, Universidad Politécnica de Valencia, Valencia, Spain), Valentin Perez-Herranz, Gerald Pourcelly, Philippe Sistat
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Ichiro Otsuka (Department of Biomaterials, Ohu University, Koriyama, Japan)
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Beata Paczosa-Bator (AGH University of Science and Technology, Faculty of Material Science and Ceramics, Cracow, Poland)
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Beata Paczosa-Bator (AGH University of Science and Technology, Faculty of Material Science and Ceramics, Cracow, Poland)
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s10-P-065
José María Palacios-Santander (Department of Analytical Chemistry, Faculty of Science, University of Cádiz, Puerto Real, Spain), Laura María Cubillana-Aguilera, Oswaldo Lázaro Estévez-Hernández, José Luis Hidalgo-Hidalgo de Cisneros, Ignacio Naranjo-Rodríguez, Edilso Reguera
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Social Program

Sunday 7 September

**Welcome Reception** (included with registration fee)
20:00-21:00 At the University Hall (Rectorado de la Universidad de Sevilla)
(one free drink Welcome Reception ticket included with Registration sheet)

Monday 8 September

**Monday Reception** (included with registration fee)
19:10 At Los Reales Alcazares of Seville

Tuesday 9 September

**Exhibitior Reception / Poster Session** (included with registration fee)
18:10 School of Engineering (Escuela Superior de Ingenieros ESI)

Wednesday 10 September

**Excursions** (Requires pre-purchased ticket for specified excursion)
15:30 Visit to Cordoba City
Visit Italica and Carmona
Visit Jerez De La Frontera
Flamenco show with dinner

Thursday 11 September:

**Banquet** (Requires pre-purchased ticket)
21:00 Hacienda Ochoa
Special Meetings

Monday 8 September

Division Officers Meeting - Luncheon Meeting
12:50 to 14:30
Room 215

Regional Representatives Meeting - Luncheon Meeting
12:50 to 14:30
Room 213

Tuesday 9 September

Council Meeting - Luncheon Meeting
13:10 to 14:50
Room 209

Thursday 11 September

General Assembly
12:10 to 13:10
Main Theatre (Salón de Actos)

Division 1 Analytical Electrochemistry - Luncheon Meeting
13:10 to 14:10
Room 213

Division 2 Bioelectrochemistry - Luncheon Meeting
13:10 to 14:10
Room 214

Division 6 Molecular Electrochemistry - Luncheon Meeting
13:10 to 14:10
Room 215
General Information

Registration / Registration Fees

On Sunday 7, the Registration Desk will be located in the Rector Hall of the University, in the city center (calle San Fernando). On the other days of the Meeting the Registration Desk will be at the Engineering School (Escuela Superior de Ingenieros, (ESI), calle Camino de los descubrimientos s/n).

Registration hours during the Meeting

Sunday 7 September 15:00-20:00
Monday 8 September 08:30-13:00 and 14:00-18:30
Tuesday 9 September 08:30-13:00 and 14:00-18:30
Wednesday 10 September 09:30-13:00
Thursday 11 September 09:30-13:00 and 14:00-18:30
Friday 12 September 09:30-12:00

On site Registration Fees

Regular (ISE non-members) 480 Euros
Regular ISE members 430 Euros
Student (ISE non-members) 175 Euros
Student ISE members 140 Euros
Accompanying Persons 120 Euros

Regular and Student Registration fees include: Admission to all scientific and exhibition sessions, 4 Lunches (Monday, Tuesday, Wednesday, Thursday), Welcome Reception and Exhibition Reception, Conference bag, Program book and Abstract CD-ROM, and coffee breaks.

Accompanying Persons Registration fees include: 4 Lunches (Monday, Tuesday, Wednesday, Thursday), Welcome Reception, and Exhibition Reception.

Lunch

Lunch will be provided from Monday to Thursday with Registration Fee
Monday 12:30 – 14:10
Tuesday 12:50 – 14:30
Wednesday 13:10 – 14:30
Thursday 13:10 – 14:10

Location: Olympic Stadium, at a 10 min. walk from the Engineering School (ESI)
A Shuttle Service between ESI and the Olympic Stadium will be available from 12:30 to 14:30 from Monday to Thursday.

Coffee breaks

Mornings
Monday 10:50 – 11:10
Tuesday to Friday 11:10 – 11:30

Afternoon
Monday 16:50 – 17:10
Tuesday and Thursday 16:30 – 16:50

Exhibitors/Poster coffees

Monday 13:50 – 15:00
Tuesday and Thursday 14:10 – 15:30
Wednesday 14:30 – 15:30
Internet Service

Wireless Internet Service is provided throughout the Engineering School (ESI). Two different network connections are possible:

The **EDUROAM** connection (for those attendees coming from countries which are eduroam members, see http://www.eduroam.org) This is the preferred connection.

The **REINUS** connection (for the rest of attendees). Temporary username and password will be provided on site.

There will be some computers available for Internet connection from Monday to Friday at the ESI on the first floor (P1) at the poster area.

Publications

Meeting Abstracts will be published in electronic form (CD-ROM). A special issue of Electrochimica Acta will contain selected papers presented at the meeting and invited to be submitted before 31 October, 2008.

Sightseeing

Visit the “El Corte Inglés” information desk for information regarding booking additional sightseeing tours or contact “Turismo Sevilla” at http://www.turismo.sevilla.org/paginas_es/portada.asp during the conference.
Poster Session 1

**Symposium 1, 3 and 5**

Monday 8 and Tuesday 9 September 2008
Ground Floor (PB)

**Symposium 2 and 4**

Monday 8 and Tuesday 9 September 2008
First Floor (P1)
Poster Session 2

Symposium 6, 8, 9 and 10

Wednesday 10 to Friday 12 September 2008
Ground Floor (PB)

Symposium 7

Wednesday 10 to Friday 12 September 2008
First Floor (P1)
Program of the 59th Annual Meeting of the International Society of Electrochemistry