



34th Topical Meeting of the International Society of Electrochemistry

Conference Schedule

SUNDAY 19/03		MONDAY 20/03		TUESDAY 21/03		WEDNESDAY 22/03	
		Room TOPACIO	Room CORAL	Room TOPACIO	ROOM CORAL	Room TOPACIO	Room CORAL
	08:00 - 08:30	Room AGUAMARINA Registration					
Key to symposia colour code:	08:30 - 09:00	Room TOPACIO Opening Ceremony					
Keynote	09:00 - 09:20	Room TOPACIO Keynote: Dr. Milosev		Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture
S1 - Electrochemistry and health	09:20 - 09:40			Oral Presentations S2	Oral Presentations S3	Oral Presentations S2	Oral Presentations S1
S2 - Clean energy	09:40 - 10:00	Coffee Break 10:00 - 10:30		Coffee Break 10:30 - 11:00		Coffee Break 10:30 - 11:00	
S3 - Materials' degradation	10:00 - 10:20	Oral Presentations S2	Oral Presentations S3	Room TOPACIO Keynote: Dr. Lamaka		Room TOPACIO Keynote: Dr. Amine	
	10:20 - 10:40						
	10:40 - 11:00						
	11:00 - 11:20						
	11:20 - 11:40						
	11:40 - 12:00						
	12:00 - 13:00	Room AGUAMARINA Poster Session S2 & S3		Room AGUAMARINA Poster Session S1 & S2		Room AGUAMARINA Poster Session S1 & S2	
	13:00 - 14:30	Lunch		Lunch		Lunch	
	14:30 - 15:00	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture
	15:00 - 16:00	Oral Presentations S2	Oral Presentations S3	Oral Presentations S2	Oral Presentations S1	Oral Presentations S2	Oral Presentations S1
	16:00 - 16:20	Coffee Break 16:00 - 16:30		Coffee Break 16:00 - 16:30		Coffee Break 16:00 - 16:30	
	16:20 - 16:40				Oral Presentations S1	Invited Lecture	Invited Lecture
	16:40 - 17:00					Oral Presentations S2	Oral Presentations S1
	17:00 - 17:20	Oral Presentations S2	Oral Presentations S3	Oral Presentations S2			
	17:20 - 17:40					Room TOPACIO Closing Ceremony	
	17:40 - 18:00						
	18:00 - 18:20						
	20:30			Gala Dinner - Bahía Mar Eventos			

Keynote
S1 - Electrochemistry and health
S2 - Clean energy
S3 - Materials' degradation

Room AGUAMARINA
Registration 15:40 - 17:30

34th Topical Meeting

of the International Society of Electrochemistry

19 - 22 March 2023

Mar del Plata, Argentina

Electrochemistry: Reaching out to society



PROGRAM

<https://topical34.ise-online.org>

e-mail: events@ise-online.org

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Exhibitors



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of the International Society of Electrochemistry

Electrochemistry for energy, environment and health: Key challenges and enabling solutions

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74th Annual Meeting

of the International Society of Electrochemistry

**Bridging scientific disciplines
to address the world's challenges**

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Call for Papers

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Venue



Hotel 13 de Julio

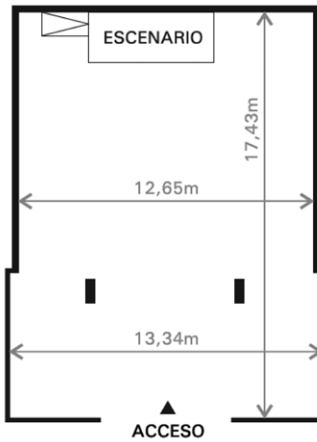
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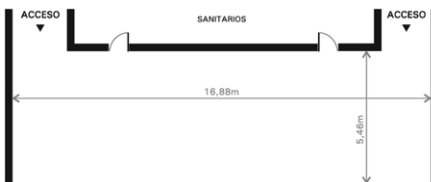
Conference Rooms



Room AGUAMARINA



Room TOPACIO



Room CORAL

International Society of Electrochemistry
Chemin du Closelet 2
1006 Lausanne
Switzerland

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Program of the
34th Topical Meeting
of the International Society of
Electrochemistry

Electrochemistry: Reaching out to society

19 - 22 March 2023
Mar del Plata, Argentina

Hotel 13 de Julio
9 de Julio 2777, B7600GZI Mar del Plata,
Provincia de Buenos Aires, Argentina

Organized by:

Division 4 - Electrochemical Materials Science
Division 5 - Electrochemical Process Engineering And Technology
ISE Region Argentina



Organizing Committee

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Sunday 19 March

Registration

Room Aguamarina

15:40 to 17:30 **Registration**

Monday 20 March

Registration

Room Aguamarina

08:00 to 08:30 **Registration**

Opening Ceremony

Room Topacio

08:30 to 09:00 **Opening Ceremony**

Tuesday 21 March

Gala Dinner

20:30 **Gala Dinner**

Bahía Mar Eventos.
Av. Patricio Peralta Ramos 3155,
B7600JVF Mar del Plata,
Provincia de Buenos Aires, Argentina.



Oral Presentations

Monday 20 March - Morning

S3 - Materials' degradation

Room A - Topacio

Chaired by: M. Vazquez

09:00 to 09:40 **Keynote**

Ingrid Milosev (*Department of Physical and Organic Chemistry, Jozef Stefan Institute, Ljubljana, Slovenia*)

[Cerium and zirconium conversion coatings for corrosion protection of aluminium alloys](#)

09:40 to 10:30

Coffee Break

S2 - Clean energy

Room A - Topacio

Chaired by: A. Visintin

10:30 to 10:50

Ezequiel Leiva (*Química Teórica y Computacional, Universidad Nacional de Córdoba, Córdoba, Argentina*), Daniel Barraco, Yair Ein-Eli, E. Maximiliano Gavilán-Arriazu

[Voltammetric and Galvanostatic Maps for Fast-Charging Diagnosis of Active Materials in LIBs](#)

10:50 to 11:10

Lucia Mascaro (*Chemistry, Universidade Federal de São Carlos, São Carlos, Brazil*), Dyovani Coelho

[Electrodeposition of transition metal sulfides and phosphides for water splitting](#)

11:10 to 11:30

Kamila Lepicka (*Functional Polymers, Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland*)

[Novel energy storage materials reviling ambipolar properties](#)

11:30 to 11:50

Lucy Linders Coria-Oriundo (*Departamento de Química Inorgánica, Analítica y Química Físic, CONICET, Universidad de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina*), Omar Azzaroni, Fernando Battaglini, Lucy Linders Coria-Oriundo, M. Lorena Cortez, Santiago Herrera, Lucila P. Méndez De Leo

[Fine-tuning Redox Polyelectrolyte Properties for Enzyme Immobilization. Bioelectrodes Optimization Applied to Energy](#)

S3 - Materials' degradation

Room B - Coral

Chaired by: B. Valcarce

10:30 to 10:50

André Colliard Granero (*IEK-13, Forschungszentrum Jülich, Jülich, Germany*), Michael Eikerling, Mohammad Eslamibidgoli, Kouros Malek

[Ontology Development for Efficient Data Management of Energy Materials](#)

10:50 to 11:10

Fabian Tipp (*Theory and Computation of Energy Materials (IEK-13), Forschungszentrum Jülich GmbH, Jülich, Germany*), Michael Eikerling, Mohammad Eslamibidgoli, Kouros Malek

[A Simulation-based Approach to Predict the Stability and Advance the Design of Imidazolium-based Anion Exchange Membranes](#)

11:10 to 11:30

Isabella Mombrini (*Chemical engineering, UCL/ESRF, Grenoble, France*)

[Synchrotron Diffraction Analysis For Mapping Internal Temperatures And Materials' degradation During High-Rate Battery Applications](#)

11:30 to 11:50

Eva Marra (*Chemical Engineering, KTH Royal Institute of Technology, Stockholm, Sweden*), Björn Eriksson, Carina Lagergren, Göran Lindbergh, Gerard Montserrat-Sisó, Björn Wickman, Rakel Wreland Lindström

[ORR stability in a carbon supported Pt₃Y thin film during PEMFC cycling conditions](#)

Monday 20 March 2023 - Afternoon

S2 - Clean energy

Room A - Topacio

Chaired by: E. Calvo

14:30 to 15:00 Invited

Julia Amici (*Department of Applied Science and Technology, Politecnico di Torino, Turin, Italy*), Silvia Bodoardo, Davide Dessantis, Carlotta Francia, Matteo Gandolfo, Mattia Longo, Maria Laura Para, Simone Siccardi, Daniele Versaci

[Polymer based electrolyte systems for safer lithium metal anodes](#)

15:00 to 15:20

Victoria Flexer (*CIDMEJ, CONICET-Universidad Nacional de Jujuy, Palpalá, Argentina*), Eva C. Arrua, César Díaz Nieto, Matías A. Mata, Camilo J. O. Palacios, Noelia A. Palacios, María L. Vera, Torres Walter R., Nadia C. Zeballos

[Lithium Carbonate and By-products Recovery via Membrane Electrolysis: Practical Considerations in Bringing an Idea Closer to Industrial Implementation](#)

15:20 to 15:40

Dmitry Aksyonov (*Center for Energy Science and Technology, Skolkovo Institute of Science and Technology, Moscow, Russia*), Anton Boev, Stanislav Fedotov

[The problem of cathode material for lithium-oxygen batteries: First-principles computational screening](#)

15:40 to 16:00

Diana Aguas Chantes (*Laboratorio Nacional de Micro y Nano Fluidica, CIDETEQ, Sanfandila, Mexico*), Fernando Battaglini, Jannu Casanova-Moreno, Lucy Coria-Oriundo

[Development and Stabilization of a Glucose Oxidase/OsBPEI Bioanode as a Component of a Microfluidic Biofuel Cell](#)

16:00 to 16:30

Coffee Break

Chaired by: B.J. Hwang

16:30 to 16:50

Walter Torres (*CIDMEJU, CIDMEJU, Palpa, Argentina*), Victoria Flexer, Nadia Zeballos

[Lithium recovery from brines via ion exchange membrane method](#)

16:50 to 17:10

Diana Orozco-Gallo (*CIDEMAT, Universidad de Antioquia, Medellin, Colombia*), Jorge Calderón-Gutiérrez, Ferley Vásquez-Arroyave

[Anodes Slurry Optimization for Lithium-Ion Batteries](#)

17:10 to 17:30

Clyde Chmielinski (*Scientific, HORIBA, Palaiseau, France*), Patrick Chapon, Clyde Chmielinski, Alice Stankova

[Multidimensional Elemental and Molecular Analysis for Surface and Interface studies](#)

17:30 to 17:50

Victoria Benavente Llorente (*Forschungszentrum Jülich GmbH, Helmholtz Institute Erlangen-Nürnberg for Renewable Energy, Erlangen - Erlangen-Süd, Germany*), Julien Bachmann, Serhiy Cherevko, André Hofer, Andreas Hutzler, Ken J. Jenewein, Attila Kormányos, Andreas Körner

[In Situ Photocorrosion Assessment of Protected Hematite Photoanodes During Accelerated Stress Tests](#)

17:50 to 18:10

Josef Schefold (*Low Carbon Hydrogen Systems, EIFER, European Institute for Energy Research, Karlsruhe, Germany*), Aline Léon

[Durability and Reversibility of Electrolyte-Supported Solid Oxide Cells for Steam Electrolysis](#)

S3 - Materials' degradation

Room B - Coral

Chaired by: G. Duffó

14:30 to 15:00 **Invited**

Jan Macak (*Center of Materials and Nanotechnologies, University of Pardubice, Pardubice, Czech Republic*), Bilal Bawab, Jhonatan Rodriguez Pereira, Hanna Sopha, S. M. Thalluri, Raul Zazpe

[Protection of Electrochemically Active Surfaces by Ultrathin Barrier Layers Using Atomic Layer Deposition](#)

15:00 to 15:20

Beatriz Valcarce (*Electroquímica Aplicada, INTEMA, UNMDP, Mar del Plata, Argentina*), Alejandra Frontini, Lucia Moran, Marcela Vazquez

[Sodium silicate incorporated into mortars as corrosion inhibitor for construction steel](#)

15:20 to 15:40

Ricardo M. Souto (*Department of Chemistry, University of La Laguna, La Laguna, Spain*), Brenda Hernández-Concepción, Javier Izquierdo

[Combined CV-SECM and SWV-SECM for the *in situ* Characterization of Metallic Corrosion and Corrosion Inhibition Illustrated with the Case of Copper Corrosion Inhibition by Benzotriazole](#)

15:40 to 16:00

Mário Ferreira (*Materials and Ceramic Engineering, Universidade de Aveiro, Aveiro, Portugal*), Alexandre Bastos, Rodrigo Montes, Cristina Neves, Alesia Sushkova, João Tedim

[Hexacyanoferrate-intercalated Layered Double Hydroxides Nanoadditives for Early Detection of Corrosion in Coated Steel](#)

16:00 to 16:30

Coffee Break

Chaired by: *M. Vazquez*

16:30 to 16:50

Leopold Lahn (*Dynamic Electrocatalytic Interfaces, Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany*), Olga Kasian, Alfred Ludwig, Andrea M. Mingers, Alan Savan

[Stabilizing Ru-Ir oxygen evolution electrocatalysts by low Ti additions](#)

16:50 to 17:10

Lindsay Grandy (*Chemistry, McGill University, Montreal, Canada*), Matthieu Chaniolleau, Robert Lacasse, Janine Mauzeroll

[Sulfate Incorporation in Stainless Steel Oxide Film after Electropolishing](#)

17:10 to 17:30

Anthony Diderot (*Institut National Polytechnique, Laboratoire de Génie Chimique, Toulouse, France*), Régine Basséguy, Marie-Line Délia, Julien Jaume, Maria-João Marques

[How microorganisms can help to protect 5083 aluminium alloy from corrosion in marine environment.](#)

17:30 to 17:50

Isolda Costa (*Centro de Ciência e Tecnologia de Materiais, IPEN-CNEN, São Paulo, Brazil*), Aline Gabbardo, João Victor de Sousa Araujo

[The corrosion resistance of the high-strength aluminum alloy 7475-T761: a comparison of the behavior of the bare and anodized alloy](#)

Tuesday 21 March 2023 - Morning

S2 - Clean energy

Room A - Topacio

Chaired by: J. Amici

09:00 to 09:30 **Invited**

Ernesto Calvo (*INQUIMAE-DQLAyQF, Universidad de Buenos Aires, Buenos Aires, Argentina*)

[Sustainable Electrochemical Recovery of Lithium Chloride from South American Salt Flat Brines. Possibilities and Limitations](#)

09:30 to 09:50

Wei-Nien Su (*Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taipei, Taiwan*), Hsin-Chih Huang, Bing Joe Hwang, Chun-Hsiang Lin, Meng-Che Tsai

[Coupling Iodide Oxidation Reaction Towards Affordable Hydrogen Production](#)

09:50 to 10:10

Nadia Ysea (*INFIQC-CONICET, Dto. de Fisicoquímica, Facultad Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina*), Victoria Benavente Llorente, Liliana Diaz, Esteban Franceschini, Gabriela Lacconi, Lucrecia Lagucik Marquez, Antonella Loíacono

[Critical insights from alloys and composites of Ni-based electrocatalysts for HER on NaCl electrolyte](#)

10:10 to 10:30

Maria Valeria Blanco (*Department of Materials Science and Engineering, Norwegian University of Science and Technology, Trondheim, Norway*), Jon Tobias, Aga Karlsen, Weicheng Hua, Ann Mari Svensson, Kesavan Thangaiyan

[Biologically Grown SiO₂ as Sustainable Anodes for Li-ion Batteries](#)

10:30 to 11:00

Coffee Break

S1 - Electrochemistry and health

Room A - Topacio

Chaired by: S. Ceré

11:00 to 11:40 **Keynote**

Sviatlana Lamaka (*Electrochemistry and Big Data, Institute of Surface Science, Helmholtz-Zentrum Hereon, Geesthacht, Germany*), Joseph Buhagiar, Sviatlana Lamaka, Xiao Liu, Di Mei, Christabelle Tonna, Cheng Wang, Mikhail Zheludkevich, Yufeng Zheng

[Degradation mechanisms of bioabsorbable metals: \(dis\)similarities of the metal-electrolyte interface during *in vitro* degradation of Mg-, Zn- and Fe-alloys](#)

S3 - Materials' degradation

Room B - Coral

Chaired by: I. Milosev

09:00 to 09:30 **Invited**

Stefano Rossi (*Industriale Engineering, University of Trento, Trento, Italy*), Luca Benedetti, Massimo Calovi, Mattia Pianamonti

[The Effect of Chlorides and Sulphates on Corrosion Behavior of Galvanized Steel in Soil](#)

09:30 to 09:50

Mikhail Zheludkevich (*Institute of Surface Science, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany*), Min Deng, Sviatlana Lamaka, Darya Snihirova, Linqian Wang

[Towards Interpretation of Electrochemical Impedance Spectra of Magnesium](#)

09:50 to 10:10

Mariel Godoy (*Química de los materiales, Universidad de Santiago de Chile, Santiago, Chile*), Soledad Bollo, Ricardo Salazar, Caio Silva, Maria Valnice Voldrin

[Comparatives studies of anodes used in electro oxidation.](#)

10:10 to 10:30

Rimantas Ramanauskas (*Chemical Engineering and Technology, Center for Physical Sciences and Technology, Vilnius, Lithuania*), Laima Gudaviciute, Remigijus Juskenas, Aliona Kirdeikiene, Jurgis Pilipavicius, Algirdas Selskis
[Corrosion Behaviour of Cerium Based Conversion Coatings on Zinc](#)

Tuesday 21 March 2023 - Afternoon

S2 - Clean energy

Room A - Topacio

Chaired by: R. Torresi

14:30 to 15:00 **Invited**

Bing Joe Hwang (*Chemical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan*)

[Understanding the Chemistry of Polysulfide Redox Shuttle in Anode-free Lithium-Sulfur Batteries](#)

15:00 to 15:20

César Zúñiga (*Department Materials Chemistry, University of Santiago de Chile, Santiago, Chile*), Angelica Gatica, Federico Tasca

[Electrochemical and Theoretical Insight into 68-atom-gold Cluster toward to efficient Oxygen Reduction Reaction](#)

15:20 to 15:40

Mohammadreza Karamad (*Physics, The University of Calgary, Calgary, Canada*)

[Activity Trends in Electrochemical Reduction of Nitrate to Ammonia on Transition Metals](#)

15:40 to 16:00

Martin Eduardo Zoloff Michoff (*Departamento de Química Teórica y Computacional, Facultad de Cs. Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina*), Ezequiel Pedro Marcos Leiva, Flavia Emilia Lobo Maza, Guillermina Leticia Luque

[Surface Catalysis of Lithium Polysulfides : Effect of the Environment](#)

16:00 to 16:30

Coffee Break

Chaired by: J. Riva

16:30 to 16:50

Arnaldo Visintin (*INIFTA, Universidad Nacional de La Plata, La Plata, Argentina*), Nicolás Hoffmann, Mariela Ortiz, Augusto Rodríguez, Miguel Sanservino

[Research and Technology for Lithium Battery at INIFTA, Argentina](#)

16:50 to 17:10

Lluís Solà-Hernández (*Department of Chemical Engineering, University of Cape Town (UCT), Cape Town, South Africa*), Dr Rhiyaad Mohamed, Dr Darija Susac Susac

[Fluorine-doped Tin Oxide Supported IrO_x as oxygen evolution reaction \(OER\) catalyst for proton exchange membrane water electrolyzers \(PEMWE\)](#)

17:10 to 17:30

Grzegorz Sulka (*Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Kraków, Poland*), Agnieszka Brzózka, Karolina Gawlak, Krystyna Mika, Renata Palowska, Monika Soltys-Mróż, Karolina Syrek, Leszek Zaraska, Marta Zych

[Anodic Metal Oxides as Materials and Templates for Photo- and Electrochemical Water Spitting Applications](#)

17:30 to 17:50

Daniele Versaci (*Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy*), Maria Aguirre, Julia Amici, Silvia Bodoardo, Alberto Costanzo, Davide Dessantis, Carlotta Francia, Paulina Marquez

[A suitable, economic and simple route to prepare SnO₂@C45 compound: A versatile composite material for Li-based energy storage](#)

S1 - Electrochemistry and health

Room B - Coral

Chaired by: P. Bueno

14:30 to 15:00 **Invited**

Damian Kowalski (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*), Patrycja Henkiel, Lina M. Sepúlveda, Mewin Vincent

[Modification of Anodic TiO₂ Nanotubes with Au](#)

15:00 to 15:20

Fabio Cicoira (*Chemical Engineering, Polytechnique Montreal, Montreal, Canada*)

[Healable and stretchable bioelectronics](#)

15:20 to 15:40

Arkadiusz Grempla (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*), Paulina Bachurska, Damian Dziubak, Karolina Pulka-Ziach, Slawomir Sek

[pH-switchable response to electric field of biomimetic foldamers – oligoureas](#)

15:40 to 16:00

Mauro Santos (*Center of Natural and Human Sciences, Federal University of ABC, Santo André, Brazil*)

[Nanomaterials and Carbon as Cathodes for Degradation of Emerging Pollutants using Electrochemical Advanced Oxidation Processes](#)

16:00 to 16:30

Coffee Break

Chaired by: D. Kovalski

16:30 to 16:50

Alnilan Lobato (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*), Mojca Bencina, Samo Hocevar, Roman Jerala, Alnilan Lobato, Tea Romih, Maja Subic, Nikola Tasic, Lea Zibret

[Development of a gelatin-based sensor for the impedimetric detection of SARS-CoV-2 on screen-printed carbon electrodes](#)

16:50 to 17:10

Nikola Tasic (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia, Ljubljana, Slovenia*), Samo Hocevar, Jelena Isailovic, Ivan Konjevic, Alnilan Lobato, Tea Romih

[A Simple Disposable Electrochemical Immunosensor for the Detection of Anti-SARS-CoV-2 IgG Antibodies](#)

Wednesday 22 March 2023 - Morning

S2 - Clean energy

Room A - Topacio

Chaired by: J.L. Fernandez

09:00 to 09:30 **Invited**

Jens Noack (*Applied Electrochemistry, Fraunhofer Institute for Chemical Technology, Pfinzthal, Germany*)

[Redox Flow Batteries – Challenges and Opportunities](#)

09:30 to 09:50

Federico Tasca (*Quimica de los Materiales, USACH, Santiago, Chile*),
Angelica Gatica, Walter Orellana, Soledad Ureta, Jose Zagal, Cesar Zuniga

[Oxygen Reduction Reaction at Fe Phthalocyanine Modified Electrodes. The Effect of Ligands, Ions, and pH on the Electrocatalysis. Ab initio Molecular Dynamics Simulation in Electrolyte Media and Experimental Analysis](#)

09:50 to 10:10

Noelia Palacios (*CIDMEJu, CIDMEJu, San Salvador De Jujuy, Argentina*),
César Díaz Nieto, Victoria Flexer

[Electrochemical Alternative to Remove Calcium and Magnesium from Native Brines and Minimize Waste Production during Lithium Extraction](#)

10:10 to 10:30

Jenna Hannonen (*Department of Mechanical and Materials Engineering, University of Turku, Turku, Finland*), Anniina Kiesilä, Pekka Peljo, Petri M. Pihko

[Fe\(II\) Complexes Aiming For Asymmetric Ligand Design As Redox Active Materials In Redox Dual-Flow Batteries](#)

10:30 to 11:00 Coffee Break

11:00 to 11:40 **Keynote** Chaired by: E. Leiva

Khalil Amine (*Battery Department, Argonne National Laboratory, Lemont, USA*)

[Advances in lithium-ion battery and beyond for enabling mass electrification of vehicles](#)

S1 - Electrochemistry and health

Room B - Coral

Chaired by: F. Cicoira

09:00 to 09:30 **Invited**

Fernando Battaglini (*INQUIMAE, Universidad de Buenos Aires, CABA, Argentina*)

[Applying Nanotechnology to Enhance the Performance of Electrochemical Biosensors](#)

09:30 to 09:50

Lourdes Navarro Nateras (*Electrochemistry, CIDETEQ, Queretaro, Mexico*), Diana Aguas-Chantes, Luis Arriaga-Hurtado, Fernando Battaglini, Jannu Casanova-Moreno, Lucy Coria-Oriundo, Jan-carlo Díaz-González, Goldie Oza, Alejandro Zentella-Dehesa

[Evaluation of an Electrochemical Biosensor for Glucose Detection in Breast Cancer-on-Chip Prototype](#)

09:50 to 10:10

Scarlett Aguilera (*Química de los Materiales, Universidad de Santiago de Chile, Santiago, Chile*), María Aguirre, Herna Barrientos, Erick Flores, Felipe Matamala-Troncoso, Jaime Pizarro

[Development of a Methodology for the Determination of Zaleplon in Natural Oral Fluids by using an Electrochemical Sensor Based on Reduced Graphene Oxide](#)

10:10 to 10:30

Susana Cordoba de Torresi (*Instituto de Química, Universidade de São Paulo, São Paulo, Brazil*), Vitor Miguel, Rafael da Silva

[Using Plasmonics to boost the electrochemical detection of analytes](#)

10:30 to 11:00

Coffee Break

Wednesday 22 March 2023 - Afternoon

S2 - Clean energy

Room A - Topacio

Chaired by: J. Noack

14:30 to 15:00 **Invited**

Julieta Riva (*INFIQC*)-CONICET Universidad Nacional de Cordoba Argentina),
Hubert Girault, Sara Moya Betancourt, Astrid Olaya

[Molecular electrochemical water photo-oxidation](#)

14:30 to 15:00

Gabriel Gonzalez (*Mechanical and Materials Engineering, University of Turku, Turku, Finland*), Anton Nechaev, Pekka Peljo, Petri Pihko

[Pyridoxal- and Viologen-Based Materials as Negolytes for Aqueous Organic Redox Flow Batteries](#)

15:20 to 15:40

Pablo Fernández (*Chemistry, University of Campinas, Campinas, Brazil*),
Swathi Patchaiammal Raju, Rafael Alcides Vicente

[Looking at electrochemistry through a multi-technique approach](#)

15:40 to 16:00

Roberto M. Torresi (*Instituto de Química, Universidade de São Paulo, São Paulo, Brazil*), Susana Chauque, Paulo F. M. Oliveira, Breno L. Souza

[Sulfur-impregnated electrodes as effective cathode for lithium-sulfur batteries](#)

16:00 to 16:30 Coffee Break

Chaired by: A. Bolzan

16:30 to 16:50 **Invited**

Ana Flavia Nogueira (*Chemistry, University of Campinas, Campinas, Brazil*)

[Formation, stability and crystallization in metal halide perovskites analyzed by *in situ* experiments coupled \(or not\) to synchrotron light](#)

16:50 to 17:10

Angelica Orona Navar (*Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Monterrey, N.L., Mexico*), Andrea Cerdán-Pasarán, Alejandra García-García, Nancy Ornelas-Soto

[Photovoltaic properties of Mg@CdS core@shell in Quantum-Dot Sensitized Solar Cell and the Effect of Graphene Oxide in TiO₂ photoanode](#)

17:10 to 17:30

Cecilia Andrea Calderón (*Laboratorio de Energías Sustentables, CONICET, Universidad Nacional de Córdoba, Córdoba, Argentina*), Daniel Barraco, Victoria Bracamonte, Jerónimo Brizuela, Fernando Cometto, Franco Eroles, Ezequiel Leiva, Guillermina Luque, Manuel Otero, Alexis Paz, Guadalupe Peñaranda, Paula Saravia, Muriel Zampieri

[Modified Metallic Lithium for Anodes in Lithium Batteries](#)

S1 - Electrochemistry and health

Room B - Coral

Chaired by: J. Ballare

14:30 to 15:00 **Invited**

Sannakaisa Virtanen (*Department of Materials Science and Engineering, University of Erlangen-Nürnberg, Erlangen, Germany*)

[Biodegradable Metals: Challenges for Understanding the Corrosion Behaviour in Biological Environments](#)

15:00 to 15:20

Aline B. Trench (*Center for Natural Sciences and Humanitie, Federal University of ABC, Santo Andre, Brazil*), Tuani C. Gentil, Mauro C. Santos, João Paulo C. Moura, Vanessa S. Antonin

[Using carbon black modified with Nb₂O₅ nanoparticles for enhancing H₂O₂ electrogeneration](#)

15:20 to 15:40

Michalina Zaborowska (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*), Renata Bilewicz, Dorota Matyszewska

[Monitoring the activity of integral membrane protein responsible for cholesterol production embedded in model lipid membrane](#)

15:40 to 16:00

Gabriel Fernandes Souza dos Santos (*Chemistry, UFES, Vitória, Brazil*),
Mariana K. Antoniazzi, Rafael Q. Ferreira, Sandro J. Greco, Celina J. Guimarães,
Claudia Pessoa, Artur M. S. Silva, Eclair Venturini filho, José B. Vieira Neto

[A Green Multicomponent Domino Mannich-Michael Reaction to Synthesize Novel Naphthoquinone-Polyphenols with Antiproliferative and Antioxidant Activities](#)

16:00 to 16:30

Coffee Break

16:30 to 16:50 **Invited**

Paulo Roberto Bueno (*Department of Engineering, Physics and Mathematics, Sao Paulo State University, Araraquara, Brazil*)

[Perspective and Application \(Health Care\) of the Quantum Rate Theory as an Approach to Electrochemistry](#)

16:50 to 17:10

Edgar Fabian Pinzon Nieto (*Mathematics, Physics and Engineering, São Paulo State University (UNESP), Institute of Chemistry, Araraquara, Brazil*),
Paulo Roberto Bueno, Adriano Santos

[Accessing to the Density of Electronic States of Cu₂O/CuO Semiconducting Nanofilms for the Reagentless Electrochemical Sensing of Phenolic Compounds.](#)

17:10 to 17:30

Fernando Fungo (*Chemistry, IITEMA CONICET-UNRC, Río cuarto, Argentina*),
Gabriela Marzari, Damian Pedraza Daza, David Possetto,
Gianluca Pozzi, Hector Rueda Bueno, Carlos Suchetti

[Electrochemical Bubbles Generation by Hydrazine and Water Oxidation for Tuning of Surface Morphology and Hydrophobicity of Electrodeposited Polymers Films](#)

Poster Presentations

Room AGUAMARINA

12:00 to 13:00

Monday 20 - **S2 & S3**

Tuesday 21 - **S1 & S2**

Wednesday 22 - **S1 & S2**

S1 - Electrochemistry and health

S1-001

Caio Almeida (*Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil*), Lucia Mascaro

[Electrocatalytic N₂ reduction using electrodeposited MoS₂ on gas diffusion layer](#)

S1-002

Leticia Mirella Da Silva (*Physicochemical, Chemistry Institute of São Carlos, São Carlos, Brazil*), Mireya Carvela, Pilar Castro, Miguel Angel Montiel López, Artur Motheo, Manuel Rodrigo, Cristina Sáez

[Generation of ClO₂ for Remediation of Soils Synthetically Contaminated with Carbamate Pesticide](#)

S1-003

Rodrigo de Mello (*Physical-Chemistry, Institute of Chemistry of São Carlos, University of São Paul, São Carlos, Brazil*), Manuel Andres Rodrigo, Artur de Jesus Motheo, Cristina Sáez

[Combined absorption and electrochemical oxidation for the treatment of benzene-contaminated gas streams](#)

S1-004

Gabriel Fernandes Souza dos Santos (*Chemistry, UFES, Vitória, Brazil*), José W. M. Carneiro, Renata D. Daltoé, Maicon Delarmelina, Rafael Q. Ferreira, Sandro J. Greco, Isabella S. Guimarães, Klesia P. Madeira, Silvana S. Meirelles, Alan R. Pereira, Marcella L. Porto, Letícia B. A. Rangel, Izabela F. Schaffel, Artur M. S. Silva, Eclair Venturini Filho

[Synthetic naphthoquinone derivatives as anticancer agents in ovarian cancer: cytotoxicity assay and investigation of possible biological mechanisms action](#)

S1-005

Carlos Fernandes (*Chemistry, University of São Paulo, SÃO CARLOS, Brazil*), Roger Gonçalves, Lorena Goulart, Géssica Santos

[Effective photoelectrocatalysis of levofloxacin antibiotic with Ti/IrO₂-Nb₂O₅ in environmental water](#)

S1-006

Angelica Gatica (*Department Materials Chemistry, Universidad de Santiago de Chile, Santiago, Chile*), Federico Tasca, César Zúñiga

[Insight into anion effect in performance toward oxygen reduction reaction through iron phthalocyanine as catalysts](#)

S1-007

Tuani Carla Gentil (*CCNH, Federal University of ABC, Santo André, Brazil*), Valentín Briega-Martos, Mauro C. Santos, Serhiy Cherevko, Bruno L. Batista, Felipe M. Souza, Maria Minichova, Victor S. Pinheiro

[Stability study of Pd-based electrocatalysts by Online SFC-ICP-MS applied to ethanol oxidation reaction](#)

S1-008

Claudio Alfredo Gervasi (*Facultad de Ingenieria, Universidad Nacional de La Plata, La Plata, Argentina*), Leticia Anahi Azpeitia, Agustín Eduardo Bolzan, Eduart Andres Gutierrez Pineda, Maria Jose Rodriguez Presa

[Optimization of hydrazine sensing electrode based on bi-doped polypyrrole/Au nanoparticles composite](#)

S1-009

Melina Hankovits (*Applied Electrochemistry, INTEMA, Mar del Plata, Argentina*), Josefina Ballarre, Silvia Ceré

[Fe-Mn-C-Si alloy as possible material for degradable pin implants: surface and in vitro characterization](#)

S1-010

Eleonora Hubenova (*Chemistry, Plodiv University, Plodiv, Bulgaria*), Yolina Hubenova, Mario Mitov

[Microbiologically Influenced Corrosion Leads to an Implant Rejection](#)

S1-011

João Paulo Moura (*Center for Natural and Human Sciences, Federal University of ABC, Santo André, Brazil*), Vanessa Antonin, Mauro Santos

[Electrogeneration of Hydrogen Peroxide Using MnO₂/Vulcan XC-72 Catalyst: Influence of the Crystalline Structure on Catalytic Activity](#)

S1-012

Raul Procaccini (*Ceramics, INTEMA (CONICET-UNMdP), Mar del Plata, Argentina*), Sergio Pellice, V. Volcanes

[Development and electrochemical behavior of silver-loaded mesoporous nanocomposite coatings](#)

S1-013

William Santacruz Parra (*Department of Physical Chemistry, São Carlos Institute of Chemistry, University of São Paulo, São Carlos, Brazil*), Artur de Jesus Motheo, Otaciro Rangel Nascimento, William Santacruz Parra

[Role of oxidative species formed during photo-assisted electro-oxidation of atrazine in organic medium](#)

S1-014

Nikola Tasic (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*), Samo B. Hocevar, Jelena Isailovic, Nikola Tasic

[Development of Novel Highly Sensitive Hydrogen Peroxide Electrochemical Gas Sensor](#)

S1-015

Lais Vernasqui (*Laboratório Associado de Sensores, Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil*), Inalmar Barbosa Segundo, Neidenêi Gomes Ferreira, Carlos Martinez-Huitle, Manuel Rodrigo

[Effect of boron-doped diamond surface as anode on methomyl electrooxidation](#)

S1-016

Joanna Juhanieicz-Debinska (*Faculty of Chemistry, University of Warsaw, Warsaw, Poland*), Damian Dziubak, Magdalena Niewiadomska

[On the role of ganglioside GM3 and zinc ions on insulin interactions with model raft membrane](#)

S2 - Clean energy

S2-001

Ali Akbari-Fakhrabadi (*Mechanical Engineering, Universidad de Chile, Santiago, Chile*), Max Antonio Durand

[Sol-Gel synthesis of Ba₇Nb₄MoO₂₀ perovskite-related oxide](#)

S2-002

Micaela Soledad Alvarez (*CITEMA, UTN FRLP, La Plata, Argentina*), Javier Amalvy, Mariela Ortiz

[Synthesis and electrochemical performance of manganese oxide as additive for cathode material for lithium-sulfur batteries](#)

S2-003

Mariano Asteazarán (*Chemistry, Universidad Tecnológica Nacional Facultad Regional La Plata, La Plata, Argentina*), Silvina Bengió, Ana Castro Luna, German Cespedes, Carsten Cremer

[Using DEMS to Investigate Methanol Oxidation Products at the Cathode of DMFC](#)

S2-004

Mariano Asteazarán (*Chemistry, Universidad Tecnológica Nacional Facultad Regional La Plata, La Plata, Argentina*), Silvina Bengió, Ana Castro Luna, German Cespedes

[Development of Pt-based Catalysts Towards Methanol Electrooxidation as Promising Materials for the Anode of a Direct Methanol Fuel Cell](#)

S2-005

Leticia A. Azpeitia (*Electrochemistry, Inst. Investigaciones Fisicoquímicas Teóricas y Aplicadas, La Plata, Argentina*), Agustín E. Bolzán, Claudio A. Gervasi, Mariela G. Ortiz, María J. Rodríguez Presa, Sofia Tsunoda, Arnaldo Visintín

[Battery Anodes Prepared by Electrodeposition in Tin\(II\) Chloride-Based Deep Eutectic Solvent on Copper Foam](#)

S2-006

Victoria Benavente Llorente (*Forschungszentrum Jülich GmbH, Helmholtz Institute Erlangen-Nürnberg for Renewable Energy, Erlangen - Erlangen-Süd, Germany*), Markus Bierling, Serhiy Cherevko, Ken J. Jenewein, Attila Kormányos, Joanna Przybysz, Simon Thiele

[Automated Electrodeposition of Co-Pi onto Hematite Photoanodes Using a Scanning Flow Cell](#)

S2-007

Mariana Berruet (*Applied Electrochemistry, Institute of Materials Science and Technology Research, Mar del Plata, Argentina*), Mariana Berruet, Matías A. Córdoba, Daniel L. Gau, Ricardo E. Marotti, Nicolás Molina, Analía V. Monti, C. Javier Pereyra, Enzo L. Spera, Kurt. R. Taretto

[PbI₂ Refinement from Lead-Acid Battery as Potential Precursor for Hybrid Lead Halide Perovskite Solar Cells](#)

S2-008

Lucy Linders Coria-Oriundo (*Departamento de Química Inorgánica, Analítica y Química Fisi, CONICET, Universidad de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina*), Fernando Battaglini, Marcelo Ceolín, Lucy Linders Coria-Oriundo, Santiago E. Herrera, Mario Tagliacuzzi

[New Redox Branched Polyethyleneimines and Redox Coacervates as Electroactive Fluids for Batteries](#)

S2-009

Verónica Díaz (*Facultad de Ingeniería, Instituto de Ingeniería Química, GIIE, Universidad de la República, Montevideo, Uruguay*), Verónica Díaz, Ramón Rojas Tattá, Erika Teliz

[Spectroscopy Electrochemical Impedance characterization of membranes electrode assemblies for PEM electrolyzers](#)

S2-010

Manuel Diaz (*Department Materials Chemistry, Universidad de Santiago de Chile, Santiago, Chile*)

[Rhenium nanoparticles as catalysts for Hydrogen Peroxide electrocatalytic production.](#)

S2-011

Francisco Fernandez (*FAMAF, IFEG, Universidad Nacional de Córdoba, CONICET, Córdoba, Argentina*), Daniel Barraco, Ezequiel Leiva, Manuel Otero, Belén Oviedo, Alexis Paz

[Study of Electrochemical Properties in the Lithiation of an Amorphous Silicon Structure Using a DFTB Potential](#)

S2-012

Jose Luis Fernandez (*Instituto de Química Aplicada del Litoral (IQAL), Universidad Nacional del Litoral, Santa Fe, Argentina*), Mauricio D. Arce, Wanda V. Fernandez

[Mechanistic Analysis of the Electro-reduction of Oxygen to Water on Metal Catalytic Surfaces Partially Inhibited by Electro-oxidation](#)

S2-013

Jose Luis Fernandez (*Instituto de Química Aplicada del Litoral (IQAL), Universidad Nacional del Litoral, Santa Fe, Argentina*), Justo D. Molina

[Efficient Gas Diffusion Electrodes Supported on Nanoporous Polycarbonate Membranes for Application in Micro-Fuel Cells](#)

S2-014

Fernando Fungo (*Chemistry, IITEMA CONICET-UNRC, Río Cuarto, Argentina*), Gabriela Marzari, David Possetto, Hector Rueda Bueno, Alvaro Tesio, Walter Torres

[The Use of Spiro-OMeTAD In Lithium-Oxygen Batteries as a Charge Redox Mediator and Singlet Oxygen Scavenger](#)

S2-015

Alan Gómez Gallardo (*Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Mexico*), Andrea Cerdán-Pasarán, Eugenio Hernández-Fernández, J. A. Hernández-Magallanes, Sanal K. C., Shadai Lugo Loredo

[Analysis of different organic synthetic hole transport layer in thin film Sb₂S₃ solar cells.](#)

S2-016

Gabriel Gonzalez (*Mechanical and Materials Engineering, University of Turku, Turku, Finland*), Elzbieta Frackowiak, Pekka Peljo, Justyna Piwek

[Molten-Salt Treated Carbon Felts Tested in a Vanadium Flow Battery Using *In-situ* Potential Measurements](#)

S2-018

Jenna Hannonen (*Department of Mechanical and Materials Engineering, University of Turku, Turku, Finland*), Pekka Peljo, Ali Tuna

[Redox Activity and Stability of Iron\(II\) and Titanium\(IV\) Complexes in Aqueous Solutions for Flow Battery Applications](#)

S2-019

Rita Humana (*CREAS, CONICET - UNCA, SFV Catamarca, Argentina*), Ines Aramayo, Andrea Calderon, Rita Humana, Arnaldo Visintin

[Synthesis and characterization of graphitic carbon nitride \(g-C₃N₄\) prepared *via* from urea pyrolysis for utilization in lithium-sulfur battery](#)

S2-020

Sang Hoon Kim (*Extreme Materials Research Center, Korea Institute of Science and Technology, Seoul, Korea*), Thao Thi Le, Gun-hee Moon

[Highly efficient sulfur modified cathodes for electro-Fenton processes](#)

S2-021

Ezequiel Leiva (*Department of Computational and Theoretical Chemistry, National University of Córdoba, Córdoba, Argentina*), Peter Axmann, Daniel Barraco, German Lener, Lukas Pfeiffer, Margret Wohlfahrt-Mehrens

[DFT Study of Mn-Ni Distribution in Layered Sodium-ion Cathodes. Application to Raman Spectroscopy.](#)

S2-022

Caio Machado Fernandes (*Physical Chemistry, Universidade Federal Fluminense, Rio de Janeiro, Brazil*), Pedro Batalha, Fernanda Boechat, Amanda Costa, Maria Cecilia de Souza, Han-Seung Lee, Mylena Leite, Hassane Igzaz, Vinicius Martins, Eduardo Ponzio

[A detailed experimental and first-principles DFT study on the performance of 4-quinolone derivatives as corrosion inhibitors for mild steel in hydrochloric acid](#)

S2-023

Paulina Márquez (*Facultad de ingeniería, Universidad Central de Chile, Santiago, Chile*)

[Effect of the central metal in Schiff bases for the electroreduction and evolution of oxygen for energy storage systems.](#)

S2-024

Maria de los Angeles Montero (*Instituto de Química Aplicada del Litoral, Universidad Nacional del Litoral, Santa Fe, Argentina*), Abel Cesar Chialvo, Maria Rosa Gennero de Chialvo

[Electrooxidation of concentrated formic acid solutions on Palladium Nanostructured Electrodes](#)

S2-025

Maria de los Angeles Montero (*Instituto de Química Aplicada del Litoral, Universidad Nacional del Litoral, Santa Fe, Argentina*), Estefania Dayer, Jose Luis Fernandez

[Highly Oriented Metallic Nanostructures: Preparation and Evaluation of their Electrocatalytic Performance for the Hydrogen Oxidation Reaction](#)

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Mariela Ortiz (*CAE-Li, INIFTA- CONICET/UNLP, La Plata, Argentina*), Khalil Jori, María Pía Quiroga Argañaraz, José Ramallo López, Félix Requejo, Augusto Rodriguez

[Synthesis, characterization and evaluation of go-lfp as cathode material for li-ion battery](#)

S2-027

Mariela Ortiz (*INIFTA, CONICET/UNLP, La Plata, Argentina*), Micaela Alvarez, Laura Klima, Agustin Vergalito

[Recovery of cathode materials from spent lithium-ion batteries](#)

S2-028

Ana Laura Paez Jerez (*CIDMEJU, CONICET, Palpala-Jujuy, Argentina*), Lilian E. Davies, Victoria Flexer, Edgardo L. Sham, Alvaro Tesio, Maria Laura Vera

[Combination of Mixed Oxides and Sulfurized Polyacrylonitrile for Li-S cathodes with Long-Term Cyclability at High C-Rates](#)

S2-030

Raul Procaccini (*Applied Electrochemistry, Mar del Plata, Argentina*), Mariela Desimone, Sergio Pellice

[Solid electrolytes based on TEOS hybrid matrix for Lithium-ion batteries](#)

S2-031

Augusto Rodríguez (*Grupo CAE-Li, Instituto de Investigaciones Fisicoquímicas Teóricas y Aplic, La Plata, Argentina*), Mariela Ortiz, Augusto Rodríguez, Jorge Thomas, Arnaldo Visintin

[Ni/Fe mixed oxide and natural clay composite as anode material for Li-ion batteries](#)

S2-032

Paula Salazar (*Instituto de Química, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile*), Enrique Dalchiele, Rodrigo Henríquez, Manuel Rodrigo

[Optimization of photoelectrodegradation of diclofenac using an FTO/Cu₂ZnSnS₄ photoelectrode](#)

S2-033

Gelson Silva (*Department of Chemistry, Federal University of Sao Carlos, São Carlos, Brazil*), Lucia Mascaro, Leonardo Wendler

[Revealing the Electrocatalytic Potential of Copper and Nickel phosphides for CO₂RR](#)

S2-034

Leandro Luiz Soares (*Chemistry Department, Federal University of São Carlos, São Carlos, Brazil*), Lucia Helena Mascaro

[Multivariate experiments conditions to optimization of Fe-Ni-Mo electrodeposition applied in the hydrogen evolution reaction](#)

S2-035

Erika Teliz (*Grupo Interdisciplinario Ingeniería Electroquímica, UdelaR, Montevideo, Uruguay*)

[Degradation study for 18650 NMC batteries at low temperature](#)

S2-036

Nicolás Troncoso (*Department Materials Chemistry, Universidad de Santiago de Chile, Santiago, Chile*)

[Porphyrins on Carbon-supported for the Oxygen Reduction Reaction keeping integrity after pyrolysis](#)

S2-037

Matías Valdés (*Electroquímica Aplicada, INTEMA, CONICET-Universidad Nacional de Mar del Plata, Mar del Plata, Argentina*), Marcela Vázquez

[Electrodeposition of kesterite compounds for photovoltaic applications](#)

S2-038

Agustin Vergalito (*CITEMA, UTN FRLP, La Plata, Argentina*), Javier Amalvy, Mariela Ortiz, Oscar Pardini

[Solid polymer electrolyte based on waterborne polyurethane with LiCF₃SO₃ salt for all-solid-state lithium-ion batteries](#)

S2-039

Daniele Versaci (*Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy*), Julia Amici, Silvia Bodoardo, Irene Canale, Carlotta Francia, Sumita Goswami, Luis Pereira

[A suitable functional interlayer based on MoS₂/PANI composite for capacity fade mitigation in Li-S batteries](#)

S2-040

She-huang Wu (*Graduate Institute of Science and Technology, National Tainan University of Science and Technology, Taipei City, Taiwan*), Po-Han Lee, Ray Liaw

[Diagnosis of Cell Aging Behaviour via a Simple Mechanistic Simulation Method](#)

S2-041

Nadia Ysea (*INFIQC-CONICET, Dto. de Físicoquímica, Facultad Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina*), Liliana Díaz, Federico Fioravanti, Esteban Franceschini, Melisa Gómez, Teresita Humana, Gabriela Lacconi

[Performance of a conventional alkaline electrolyzer with Ni-Nb₂O₅ electrodes in alkalized saline solutions](#)

S2-042

Carlos Zinola (*Electrochemical Engineering Group, UDELAR, Montevideo, Uruguay*)

[Dimensionless Equations in Hydrogen/Oxygen Polymer Electrolyte Fuel Cells; Columnar Platinum Electrodes.](#)

S2-043

Carlos Zinola (*Electrochemical Engineering Group, UDELAR, Montevideo, Uruguay*)

[2D Dependence of Dimensionless Equations in Hydrogen/Oxygen Polymer Electrolyte Fuel Cells; Smooth Platinum Electrodes.](#)

S2-044

Cecilia Andrea Calderón (*Laboratorio de Energías Sustentables, CONICET, Universidad Nacional de Córdoba, Córdoba, Argentina*) Sofía Raviolo, Victoria Bracamonte, Guillermina Luque

[2D Dependence of Dimensionless Equations in Hydrogen/Oxygen Polymer Electrolyte Fuel Cells; Smooth Platinum Electrodes.](#)

S2-045

Sofía Gómez (*YPF-Tecnología S.A. (YPF-CONICET), Argentina*)

Jorge Andrés Donadelli, Jesús Eduardo Vega Castillo, Melina Cozzarín, Leandro García Tsuruoka, Jorge Acosta, Jorge Enrique Thomas

[Study of the interfaces generated during the cycling of LMNO/MCMB cells](#)

S3 - Materials degradation

S3-001

Luis Chávez (*Applied Physics Department, Center for Research and Advanced Studies (CINVESTAV), Mérida, Mexico*), Rafael Ramírez, Diana Sánchez, Lucien Veleva

[AM60 Surface Modification by Polystyrene-ZrO₂ Coating Exposed to Simulated Marine Environment](#)

S3-002

Gustavo Duffo (*Corrosion - Gerencia Materiales, Comisión Nacional de Energía Atómica, San Martín, Argentina*), Antonio Domenech-Carbó, Silvia Farina, María Amparo Peiró-Ronda, Jaime Vives-Ferrandiz

['Dry' Electrochemistry: A Non-invasive Characterization of Archaeological Iron Objects](#)

S3-003

Gustavo Duffo (*Corrosion - Gerencia Materiales, Comisión Nacional de Energía Atómica, San Martín, Argentina*), Juan Carricondo, Silvia Farina

[Electrochemistry of the Corrosion of Reinforcing Bars in Carbonated Concrete](#)

S3-004

María Alejandra Frontini (*Division Electroquímica Aplicada, INTEMA-UNMDP, Mar del Plata, Argentina*), María B. Valcarce, Marcela Vázquez

[Effective electrode preparation to prevent crevice in steel electrodes](#)

S3-005

Facundo Herrera (*Corrosión Básica, Comisión Nacional de Energía Atómica, Instituto Sabato, San Martín, Argentina*), Mauricio Chocrón, Mariano Kappes

[Crevice Corrosion of Alloy N08800 for Steam Generator Tubing of Nuclear Power Plants](#)

S3-006

Yolina Hubenova (*Bioelectrochemical systems, IEES-BAS, Sofia, Bulgaria*), Desislava Apostolova, Elitsa Chorbadzhiyska, Eleonora Hubenova, Mitov Mitov

[Electrochemical Evaluation of Copper Corrosion Influenced by Bacteria](#)

S3-007

Paula Loperena (*INIEC, Departamento de Ingeniería Química, Universidad Nacional del Sur, Bahía Blanca, Argentina*), Ivana Lehr, Silvana Saidman
[Anticorrosive and Antibacterial Properties of Chitosan Coating on AZ91D Magnesium Alloy](#)

S3-008

Paula Loperena (*INIEC, Departamento de Ingeniería Química, Bahía Blanca, Argentina*), Nadia Cortez, Belén González, Ivana Lehr
[Improved Corrosion Resistance of 316 L SS by Salicylate and Cerium-based Coating](#)

S3-009

Alejandra Martínez (*INIEC - Departamento de Ingeniería Química (DIQ), Universidad Nacional del Sur (UNS), Bahía Blanca, Argentina*), Daniel Flamini, Alejandra Martínez, Silvana Saidman
[Immobilization of Ag nanoparticles on TiO₂ nanotubes electrochemically formed on Ti-6Al-4V alloy](#)

S3-010

Mario Mitov (*Chemistry, South-West University Neofit Rilski, Blagoevgrad, Bulgaria*), Desislava Apostolova, Elitsa Chorbadzhiyska, Eleonora Hubenova, Yolina Hubenova
[Microbiologically Influenced Corrosion of Mild Steel and Stainless Steel in Domestic Wastewater](#)

S3-011

Leonardo Daniel Robledo Candia (*Departamento de Química, INIFTA-Universidad Nacional de La Plata, La Plata, Argentina*), Aldo Alberto Rubert
[Electrochemical Stability of Metal Nanoparticles: the role of Size-Distribution Broadness](#)

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Alejandro Robledo (*Interface engineering and bioprocesses, INTEMA, Mar del Plata, Argentina*), Lisandro Escalada, Juan Pablo Busalmen, Diego Massazza
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