

Prof. Dr. Wolfgang Schuhmann

Date of birth: October 10, 1956

Ruhr-University Bochum

Analytical Chemistry and Center for Electrochemical Sciences (CES)

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Scientific Vita

1982	Diploma (Chemistry), University of Karlsruhe (Prof. Dr. Gerhard Fritz)
1987	PhD (Physical Chemistry), Technical University Munich (Prof. Dr. Friedhelm Korte)
1987–1995	Group leader "Amperometric Biosensors", Technical University Munich (Prof. Dr. Hanns-Ludwig Schmidt)
1990	Visiting scholar at University of Texas, Austin (Prof. Dr. Adam Heller)
1993	Habilitation (Chemistry) Technical University Munich (Prof. Dr. Hanns-Ludwig Schmidt)
1996–2008	Assoc. Prof. of Analytical Chemistry, Ruhr-University Bochum
2008 - present	Full Professor and Chair of Analytical Chemistry, Ruhr-University Bochum

Awards

2000	Biosensors & Bioelectronics Award
2005	Fellow of the Royal Society of Chemistry (FRSC)
2008	Julius-von-Haast Fellowship Award of the Royal Society of New Zealand and the Humboldt Foundation
2011	Katsumi-Niki-Award of the International Society of Electrochemistry (ISE)
2012	Fellow of the International Society of Electrochemistry (ISE)
2014	Howard Fellowship of the University of New South Wales, Sydney
2014	Heyrovsky-Ilkovic-Nernst-Lecture of the GDCh, the Czech and the Slovak Chemical Societies
2016	Distinguished Visiting Professor, University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca, Romania
2017	"Schulich Visiting Professor Lectureship" for 2018-19; Schulich Faculty of Chemistry at the Technion - Israel Institute of Technology; Haifa; Israel
2018	Alessandro Volta Medal of the Electrochemical Society (ECS)

Member of Scientific Societies: GDCh, RSC, ECS, ISE, BES, AGEF, GeCatS

Professional Activities

2007–2008	Chair of Division 2 "Bioelectrochemistry" of the International Society of Electrochemistry
2007–2010	Dean of the Faculty of Chemistry and Biochemistry, Ruhr-University Bochum
2010–2012	Vicedean of the Faculty of Chemistry and Biochemistry, Ruhr-University Bochum
2009	Chair of the Research Department „Interfacial Systems Chemistry“, Ruhr-University Bochum
2005–present	Member and chair of the Board of AGEF "Arbeitsgemeinschaft elektrochemischer Forschungsinstitute"

Member of the Editorial Boards of "Biosensors & Bioelectronics", "Electroanalysis", "ChemPlusChem", "ChemElectroChem", "ACS Sensors", "Langmuir", "Curr. Opin. Electrochem.", Kuratorium "Angewandte Chemie"

Fields of Interests and Current Research Projects

Micro- and nanoelectrochemistry; development of tools for microelectrochemistry (scanning electrochemical microscopy); electrochemical robotics und combinatorial electrochemistry; Modified electrodes for biosensors, DNA assays; local visualization of electrochemical activity on surfaces with applications in corrosion, material chemistry, electrocatalyst development; fuel cells, biofuel cells, Li batteries, photo-electrochemistry; carbon nanotubes as electrode materials; Electrochemical deposition of catalyst nanoparticles; Noble-metal free electrocatalysts