



71st Annual Meeting

of the
International Society of Electrochemistry

Belgrade, Wednesday 31 August to Friday 4 September 2020

Symposium 5
Oral presentation program

Wednesday 2 September 2020

s05 Coupling electrochemical and optical methods to study chemo- and bio-objects: light as sensor and actuator

09:30 to 10:00 Keynote

Pau Gorostiza (IBEC, ICREA, Barcelona, Spain)

[Electrochemically Gated Charge Transport in Redox Proteins and Photosynthetic Complexes](#)

10:00 to 10:15 Invited

Ichizo Yagi (Faculty of Environmental Earth Science, Hokkaido University, Sapporo, Japan), Yuya Masuda, Narumi Yoshida, Shogo Nakagawa, Takehiko Tosha, Masaru Kato

[Electrochemical Surface-enhanced Infrared Absorption Spectroscopy of Nitric Oxide Reductase Immobilized on Gold Electrodes](#)

10:15 to 10:30

Jingxian Yu (Department of Chemistry, The University of Adelaide, Adelaide, Australia)

[Electrochemical Plasmonic Optical Fiber Probe for Real-time Insight into Coreactant Electrochemiluminescence](#)

10:30 to 10:45

Fred Lisdat (Biosystems Technology, Technical University Wildau, Wildau, Germany), Marc Riedel, Soraya Höfs

[Transparent cathode material for photobioelectrochemical cell development](#)

10:45 to 11:00 Invited

Klaus Mathwig (Groningen Research Institute of Pharmacy, University of Groningen, Groningen, Netherlands)

[Electrochemiluminescence sensing and light generation confined in nanochannels](#)

11:05 to 11:15

5 flash oral (2min each)

A. Zanut: Dye Doped Silica Nanoparticles for Efficient Electrochemiluminescence Imaging

R. Bialek: Electron Transfer Between The Photoactive Protein And Redox Polymer Occurs Within Microsecond Time Scale

Y. Vogel: Spatiotemporal Control of Chemiluminescence Guided by a Visible Light Stimulus

S. Rebecani: Electrochemiluminescence microscopy boosted by nanotechnologies

11:15 to 11:35

Live discussion

11:35 to 11:50

Marco Malferrari (Dept. of Chemistry, University of Bologna, Bologna, Italy), Ilaria Abdel Aziz, Francesco Roggiani, Maria Rosa Antognazza, Stefania Rapino

[Spatially-Controlled Photoinduced Redox Processes at Organic Semiconductor/Liquid Interface Revealed by Scanning ElectroChemical Microscopy](#)

11:50 to 12:05

Markus Mangold (IRsweep AG, IRsweep AG, Staefa, Switzerland), Andreas Hugli, Urszula Szczepaniak, Raphael Horvath, Markus Geiser

[High-speed spectroelectrochemistry with quantum cascade laser frequency comb spectroscopy](#)

12:05 to 12:20 Invited

Anne de Poulpiquet (Bioenergetics and Protein Engineering, Aix-Marseille University, CNRS, Marseille, France), Bastien Tassy, Alice Dauphin, Hiu Mun Man, Hugo Le Guenno, Elisabeth Lojou, Laurent Bouffier

[In situ Fluorescence Confocal Microscopy: a New Insight in the Reactivity of Enzymatic Electrodes](#)

12:20 to 12:50 Keynote

Paul Bohn (Chemistry and Biochemistry, University of Notre Dame, Notre Dame, USA), Vignesh Sundaresan, Seol Baek

[Electrochemical Zero-Mode Waveguide Studies of Single Redox Molecules in Nanopore Electrode Arrays](#)

12:50 to 13:10

Live discussion