

Program of the
21st Topical Meeting
of the
International Society of
Electrochemistry

Photoelectrochemistry of semiconductors
at the nanoscale: from fundamental aspects
to practical applications

23-26 April 2017
Szeged, Hungary

Organized by:
Division 6 Molecular Electrochemistry
Division 7 Physical Electrochemistry
ISE Region Hungary



International Society of Electrochemistry
Chemin du Closelet 2
1006 Lausanne
Switzerland

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Sunday 23 April 2017

Opening Ceremony

Room : Juhasz Gyula Terem

17:45

Chaired by: Csaba Veszteg, László Peter

Keynote

Room : Juhasz Gyula Terem

Chaired by: Krishnan Rajeshwar

18:00 to 18:55 Keynote

Akira Fujishima (Tokyo University of Science, Tokyo, Japan)

[TiO₂ Photocatalysis and Diamond Electrode](#)

Sunday 23 April 2017

Welcome Reception



Sponsored by the City of Szeged

19:30

Town Hall Szeged

approximately 28 minutes walking

Directions from Hunguest Hotel Forrás to Town Hall, Széchenyi Tér, 6720 Szeged

Hunguest Hotel Forrás, Szent-Györgyi Albert u. 16

● Head west on Szent-Györgyi Albert u. toward Fürdő u. ➡ 250 m

● Turn right onto Népkert sor ➡ 30 m

● Continue onto Szent-Györgyi Albert u. ➡ 66 m

● Turn right onto Belvárosi hid ➡ 550 m

● Continue onto Híd u. ➡ 260 m

● Turn right onto Széchenyi tér ➡ 58 m

● Turn left to stay on Széchenyi tér ➡ 140 m

● Turn right to stay on Széchenyi tér ➡ 50 m

● Turn left to stay on Széchenyi tér

● Destination will be on the right ➡ 36 m

City Hall Szeged, Széchenyi tér 10, 6720 Hungary

Welcome address by Dr. Ottó Berkesi, elected member of the City Council



Monday 24 April 2017 - Morning

Keynote

Room : Juhasz Gyula Terem

Chaired by: Laurie Peter

08:20 to 09:15 Keynote

Prashant V. Kamat (Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, USA), Jacob Hoffman, Seog Joon Yoon

[Perovskite Solar Cells. Intricacies of Light Induced Processes](#)

Solar Fuels

Room : Juhasz Gyula Terem

Chaired by: Akira Fujishima and Hyunwoong Park

09:20 to 10:00 Invited

Pawel J. Kulesza (Department of Chemistry, University of Warsaw, Warsaw, Poland), Krzysztof Bienkowski, Aneta Januszewska, Rafal Jurczakowski, Iwona A. Rutkowska, Ewelina Seta, Katarzyna Skorupska, Krzysztof Slojewski, Renata Solarska, Ewelina Szaniawska, Anna Wadas, Sylwia Zoladek

[Hybrid and Functionalized Interfaces for Photoelectrochemical and Electrocatalytic Reduction of Carbon Dioxide](#)

10:00 to 10:20

A. Wouter Maijenburg (ZIK SiLi-nano, MLU Halle-Wittenberg, Halle (Saale), Germany)

[Nanostructure Design for Photocatalytic Water Splitting](#)

10:20 to 10:40

Petr Krtil (Low Dimension Systems, J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic), Ivano Castelli, Ladislav Kavan, Monika Klusackova, Katerina Minhová Macounová, Roman Nebel, Jan Rossmeisl

[The Role of Anatase Surface Orientation in Selectivity of Photo-electrochemical Water Splitting](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Bruno Fabre (Institut des Sciences Chimiques de Rennes UMR6226, University of Rennes 1, Rennes, France), Sylvie Chardon, Encarnación Torralba Peñalver

[Light-Driven Electrocatalytic Reduction of CO₂ on Silicon Nanowires using Mn Bipyridyl Complex Catalysts](#)

11:20 to 11:40

Attila Kormányos (Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary), Dorottya Hursán, Csaba Janáky, Egon Kecszenovity

[Photoelectrochemical Reduction of CO₂ on Organic/inorganic Nanocomposite Photoelectrodes](#)

11:40 to 12:00

Nestor Eduardo Mendieta Reyes (Departamento de Química, Universidad Nacional de Colombia, Bogotá, Colombia), Ana Korina Díaz García, Roberto Gómez, Carlos Alberto Guerrero Fajardo

[Study of electrochemical CO₂ reduction over WO₃ electrodes in aprotic media](#)

Synthesis of Semiconductor Electrodes

Room : Szent-Gyorgyi Albert Terem

Chaired by: Paweł J. Kulesza and Ladislav Kavan

09:20 to 10:00 Invited

Wojciech Macyk (Faculty of Chemistry, Jagiellonian University, Kraków, Poland), Marta Buchalska, Marcin Kobielski, Michał Pacia, Mateusz Trochowski

[Analysis and engineering of electronic states in semiconductor photocatalysts](#)

10:00 to 10:20

Jan Macak (Center of Materials and Nanotechnologies, University of Pardubice, Pardubice, Czech Republic), Milos Krbal, Siowwoon Ng, Jan Prikryl, Hanna Sopha, Raul Zazpe

[Enhanced Photoelectrochemical Efficiency of Self-Organized TiO₂ Nanotube Layers due to Secondary Materials](#)

10:20 to 10:40

Leszek Zaraska (Department of Physical Chemistry and Electrochemistry, Faculty of Chemistry, Jagiellonian University in Krakow, Krakow, Poland), Karolina Gawlak, Dominika Gilek, Krystyna Mika, Grzegorz D. Sulka, Karolina Syrek, Marta Zych

[Anodic oxidation as a simple and cost-effective method for fabrication of nanostructured semiconductor oxides with various morphologies](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Joanna Kuncewicz (Faculty of Chemistry, Jagiellonian University in Kraków, Kraków, Poland), Bunsho Ohtani

[Rhodium-doped Titania: The Effect of the Doping Conditions on Bands Position and Density of Introduced Electronic States](#)

11:20 to 11:40

Balazs Endrodi (Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary), Csaba Janáky, Egon Kecszenovity

[Development of a Rapid, One-step Electrodeposition Method Resulting in Nanocrystalline TiO₂ Films with Enhanced \(Photo\)electrochemical Performance](#)

11:40 to 12:00

Tso-Fu Mark Chang (Institute of Innovative Research, Tokyo Institute of Technology, Yokohama, Japan)

[Effect of Applied Pressure on Photocatalytic Activity of Titanium Dioxide Synthesized by Cathodic Deposition with Supercritical Carbon Dioxide](#)

12:00 to 12:20

Marta Michalska-Domanska (Institute of Optoelectronics, Military University of Technology, Warsaw, Poland), Mateusz Czerwinski, Piotr Nyga

[Effect of water content in electrolyte on anodic titanium oxide morphology and optical properties](#)

Monday 24 April 2017 - Afternoon

Synthesis of Semiconductor Electrodes

Room : Juhasz Gyula Terem

Chaired by: Nathan Lewis

14:00 to 14:40 Invited

Bunsho Ohtani (Institute for Catalysis, Hokkaido University, Sapporo, Japan)

[Why should Photocatalysts be Semiconductor? - Roles of Electron Traps in Metal Oxide Particles](#)

Room : Szent-Gyorgyi Albert Terem

Chaired by: Wojciech Macyk

14:40 to 15:00

Andrés G. Muñoz (Process Analysis, Gesellschaft für Anlagen- und Reaktorsicherheit GRS gGmbH, Braunschweig, Germany), Laura Beuth, Anja Dobrich, Thomas Hannappel, Hans-Joachim Lewerenz, Matthias M. May, Heike Mönig

[Photo-electrodeposition of Rhodium on III-V Semiconductors for the Construction of Tandem Water Splitting Devices](#)

15:00 to 15:20

Cheryl Karman (Laboratoire Chimie Physique Microbiologie pour Environnement, Université de Lorraine, Villers-les-Nancy, France), Alonso Gamero-Quijano, Grégoire Herzog, Neus Vilà, Alain Walcarius

[Controlling the Growth of Electropolymerized Polyaniline Nanorods through Vertically Oriented Silica Mesostructures](#)

15:20 to 15:40

Gergely Samu (Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary), Csaba Janáky, Krishnan Rajeshwar, Swagotom Sarker, Vaidyanathan Subramanian, Csaba Visy

[Photoelectrochemical synthesis of conducting polymer/inorganic semiconductor assemblies](#)

15:40 to 16:00

Dwight Acosta (Condensed Matter Department, National University, Ciudad de México, Mexico), Francisco Hernández

[The influence of applied voltage and solution temperature on physical properties of electrodeposited ZnO thin films](#)

16:00 to 16:20

[Coffee Break](#)

Emerging Applications

Room : Juhasz Gyula Terem

Chaired by: Bunsbo Obtani and Hyunjung Shin

14:40 to 15:00

Ladislav Kavan (Electrochemical Materials, J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic), Petr Cigler, Hana Krysova, Vincent Mortet, Zuzana Vlckova-Zivcova

[Boron-Doped Diamond Electrodes for Dye-Sensitized Solar Cells](#)

15:00 to 15:20

Kai Yan (School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan, China), Yaohua Yang, Jingdong Zhang

[The Application of Photofuel Cells in Self-powered Sensing Platforms](#)

15:20 to 15:40

Karolien De Wael (Chemistry, Antwerp University, Antwerp, Belgium)

[Molecular Photosensitizers: Emerging \(Bio\)Analytical Sensing Tools](#)

15:40 to 16:00

Kristina Wedege (Chemical and Biological Engineering, Aarhus University, Aarhus C, Denmark), João Azevedo, Anders Bentien, Amirreza Khataee, Adélio Mendes

[Photoelectrochemical Charging of an Aqueous Flow Battery by a Polyani-line Surface-treated Hematite Photoanode](#)

16:00 to 16:20

[Coffee Break](#)

16:20 to 16:40

Hsin-Fu Yu (Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan), Kuo-Chuan Ho, Sheng-Yuan Kao, Man-kit Leung, You-Shiang Lin

[A high contrast complementary electrochromic device based on two conducting polymer thin films](#)

16:40 to 17:00

Omotayo Arotiba (Applied Chemistry, University of Johannesburg, Johannesburg, South Africa), Jane Ngila, Moses Peleyeju, Eseoghene Umukoro

[Towards Wastewater Treatment: Photo-assisted Electrochemical Degradation of Nitrophenol and Orange II dye at a Tungsten Trioxide-Exfoliated Graphite Nanocomposite Electrode](#)

17:00 to 17:20

Iryna Sagaidak (Laboratoire de Réactivité et Chimie des Solides, Université de Picardie Jules Verne, Amiens, France), Christian Andriamiadamanana, Gaspard Bouteau, Christel Laberty-Robert, Albert Nguyen Van Nhien, Frederic Sauvage

[Ionic transfer triggered by light action: a case of TiO₂ nanocrystals towards photonic Li-ion battery](#)

17:20 to 17:40

Valentina Pifferi (Dipartimento di Chimica, Università degli Studi di Milano, Milano, Italy), Silvia Ardizzone, Michele Ceotto, Giovanni Di Liberto, Luigi Falciola, Leonardo Lo Presti, Daniela Meroni, Guido Panzarasa, Guido Soliveri

[Silver Nanoparticles/Nanostructured TiO₂ Interface: a Photo-Renewable "Silver-Ions Electrode" for Neurotransmitters Detection](#)

17:40 to 19:00

Poster presentation session and Wine tasting

New Materials

Room : Szent-Gyorgyi Albert Terem

Chaired by: Jan Macak

16:20 to 16:40

Pierre Millet (Chemistry, Paris-Saclay University, Orsay, France), Manuel Antuch, Akihiko Kudo, Angel Villagra

[Photochemical Water Dissociation using Rh-doped SrTiO₃ Surface-modified by Pt-nanoparticles or Cobalt-clathrochelate Co-catalysts](#)

16:40 to 17:00

Rochan Sinha (Electrochemical Materials and Interfaces, Dutch Institute for Fundamental Energy Research, Eindhoven, Netherlands), Anja Bieberle-Hütter, Bert Koopmans, Reinoud Lavrijsen, Irem Tanyeli, M.C.M. Van de Sanden

[Electrochemistry of High Ion Flux Helium Plasma-exposed Iron Oxide Thin Films](#)

17:00 to 17:20

Chun-Pei Cho (Applied Materials and Optoelectronic Engineering, National Chi Nan University, Nantou County, Taiwan), Fu-Jye Sheu

[Graphene oxide-TiO₂-Ag₃PO₄ ternary composites with efficient photocatalytic performance for dye degradation and hydrogen evolution](#)

17:20 to 17:40

Stéphane Bastide (Chimie Métallurgique des Terres Rares (CMTR), Institut de Chimie et des Matériaux Paris-Est (ICMPE), Thiais, France), Christine Cachet-Vivier, Taha El Assimi, Mathieu Halbwx, Joseph Harari, Raphael Lachaume, Sylvain Le Gall, Vincent Magnin, Encarnación Torralba Peñalver, Jean Pierre Vilecot

[Microstructuring of Silicon Surfaces Using Nanoporous Gold Electrodes](#)

17:40 to 19:00

Poster presentation session and Wine tasting

Tuesday 25 April 2017 - Morning

Keynote

Room : Juhasz Gyula Terem

Chaired by: Prashant Kamat

08:20 to 09:15 Keynote

Nathan S. Lewis (Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, USA)

[Sunlight-Driven Hydrogen Formation by Membrane-Supported Photoelectrochemical Water Splitting](#)

Solar Fuels

Room : Juhasz Gyula Terem

Chaired by: Wolfram Jaegermann and Andrés G. Muñoz

09:20 to 10:00 Invited

Hyunwoong Park (School of Energy Engineering, Kyungpook National University, Daegu, Korea), Dong Suk Han, Unseock Kang, Jae-Joon Lee

[All-Inorganic Solar Synthesis of Liquid Formate from CO₂ and Water over a Month on Durable and Recyclable Copper Iron Photocatalyst Films at Efficiency Exceeding Photosynthesis](#)

10:00 to 10:20

Simon Filser (Nonequilibrium Chemical Physics, Technical University Munich, Garching, Germany), Katharina Krischer, Qi Li, Paolo Lugli, Thomas L. Maier, Robin Nagel, Werner Schindler, Tianyue Zhang, Josef Zimmermann

[Photoelectrochemical CO₂ reduction at nanostructured gold/copper structures on Silicon](#)

10:20 to 10:40

Micheal D. Scanlon (Chemical Sciences, Bernal Institute, University of Limerick, Limerick, Ireland), Andrés F. Molina Osorio

[Unprecedented Levels of Electrochemical Control over Photosensitizer Assembly at Soft Interfaces to Achieve Solar fuels without Solid Electrodes](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Katharina Brinkert (TEC-SF, Noordwijk, Netherlands), Oemer Akay, Yasuhiro Fukunaka, Michael Giersig, Hans-Joachim Lewerenz, Janine Liedtke, Hisayoshi Matsushima, Slobodan Mitrovic, Matthias H. Richter

[Photoelectrocatalysis: Solar-assisted Hydrogen Production in Microgravity Environments](#)

11:20 to 11:40

Aldona Jelinska (Lab for Photoelectrochemistry and Solar Energy Conversion, Centre of New Technologies, University of Warsaw, Warsaw, Poland), Jan Augustynski, Krzysztof Bienkowski, Marcin Pisarek, Renata Solarska

[Enhanced water splitting using tungsten trioxide-based photoanodes](#)

11:40 to 12:00

Taek Dong Chung (Chemistry, Seoul National University, Seoul, Korea), Soo Youn Lee, Seong Yul Lim

[Mask-Free Pattern for Solar Water Splitting and Biohybrid Electrode for CO₂ Reduction](#)

12:00 to 12:20

Gabriel Loget (Institut des Sciences Chimiques de Rennes, CNRS, Rennes, France), Maissa Barr, Maimouna Diouf, Bruno Fabre, Francis Gouttefangeas, Loic Joanny, Lionel Santinacci

[Electrochemically Structured Black Silicon for Water Oxidation](#)

New Materials

Room : Szent-Gyorgyi Albert Terem

Chaired by: Pierre Millet and A. Wouter Maijenburg

09:20 to 10:00 Invited

Lionel Vayssieres (International Research Center for Renewable Energy, Xian Jiaotong University, Xian, China)

[Dimensional, Interfacial, and Confinement Effects on the Performance and Stability of Low-Cost Photoelectrodes for Solar Water Splitting](#)

10:00 to 10:20

Olga Krysiak (Lab for Photoelectrochemistry and Solar Energy Conversion, Centre of New Technologies, University of Warsaw, Warsaw, Poland), Jan Augustynski, Piotr Barczuk, Krzysztof Bienkowski

[Plasmonic gold nanoparticles in Au/TiO₂ photocatalysts](#)

10:20 to 10:40

Andrea Vezzoli (Chemistry, University of Liverpool, Liverpool, United Kingdom), Richard J. Brooke, Carly Brooke, Nicolò Ferri, Simon J. Higgins, Richard J. Nichols, Walther Schwarzacher

[Molecular photoelectronics in Au/molecule/GaAs junctions](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Hyunjung Shin (Energy Science, Sungkyunkwan University, Suwon, Korea)

[Atomic Layer Deposition of MoS₂ on Self-Supported Cu Substrate as Efficient Catalysts for Hydrogen Evolution](#)

11:20 to 11:40

Dorottya Hursán (Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary), Csaba Janáky, Tamás Kiss, Attila Kormányos, Robert Ondok

[Photoelectrochemistry of organic semiconducting polymers: fundamentals and implications in solar fuels generation](#)

11:40 to 12:00

Julieth Suesca Botia (Faculty of Science, Universidad Industrial de Santander, Bucaramanga, Colombia)

[Nitrogen and boron co-doped TiO₂-nanotubes \(NB-NTTiO₂/Ti\) with photoelectrochemical activity for paracetamol degradation in water using visible light](#)

12:00 to 12:20

Vanousheh Rahemi (AXES, Chemistry, University of Antwerp, Antwerpen, Belgium), Willemien Anaf, Karolien De Wael, Koen Janssens, Dirk Lamoen, Bart Partoens, Nasrin Sarmadian

[Unique Opto-Electronic Structure and Photo Reduction Properties of Sulfur Doped Lead Chromates Explaining their Instability in Paintings](#)

Tuesday 25 April 2017 - Afternoon

Afternoon Visits

Optional Visits to either:

A)

Visit to Extreme Light Infrastructure - Attosecond Light Pulses ELI-ALPS facility only

B)

Visit to Extreme Light Infrastructure - Attosecond Light Pulses ELI-ALPS facility + sightseeing tour in Szeged

C)

Visit to Ópusztaszer (Hungarian National Heritage Park). Accompanying persons are also welcome. The additional costs for this visit amount to € 30 per person.

How to sign up: If you wish to participate at either of the above visits, please announce yourself upon registration on Sunday 23 April as from 14:00 until Monday 10:00 in the Hunguest Hotel Forrás. Groups will be allocated accordingly.

Every option will end at the restaurant where the banquet will be held.

Banquet

19:00-22:30

Fehértói Halászcserda

Budapesti út 41, 6728 Szeged

Price for accompanying person : €45.

Transportation back to Hunguest Hotel Forras will be provided

Wednesday 26 April 2017 - Morning

Keynote

Room : Juhasz Gyula Terem

Chaired by: Gerko Oskam

08:20 to 09:15 Keynote

Laurence M. Peter (Department of Chemistry, University of Bath, Bath, United Kingdom)

[Light-Driven Water Splitting: Achieving a Deeper Understanding](#)

New Materials

Room : Szent-Gyorgyi Albert Terem

Chaired by: Lionel Vayssieres and Csaba Visy

09:20 to 10:00 Invited

Wolfram Jaegermann (Surface Science Division, TU Darmstadt, Darmstadt, Germany)

[Solar fuels from artificial inorganic leafs - Physical boundary conditions and material science challenges](#)

10:00 to 10:20

Thibaut Stoll (Solar Fuels, DIFFER, Eindhoven, Netherlands), Han Genuit, Bert Koopmans, Reinoud Lavrijsen, Michail Tsampas, George Zafeiropoulos

[Innovative photoelectrochemical cells based on polymeric membrane electrolytes and suitable porous photoanodes](#)

10:20 to 10:40

Giovanni Valenti (Department of Chemistry, University of Bologna, Bologna, Italy), Marcella Bonchio, Alessandro Boni, Paolo Fornasiero, Massimo Marcaccio, Michele Melchionna, Francesco Paolucci, Maurizio Prato, Stefania Rapino

[Co-axial nanostructures for energy conversion: synergic effects between carbon nanotubes and metal oxide](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Andrés Gualdrón-Reyes (Chemistry, Universidad Industrial de Santander, Bucaramanga, Colombia), Martha Niño-Gómez, Johan Rios-Niño

[Influence of Cd/Mn Ratio on the Photoelectrochemical Properties of Cd_{1-x}Mn_xS/Bi₂S₃ Co-Sensitized Boron-Doped TiO₂ Nanotubes](#)

11:20 to 11:40

Balázs Buchholz (Department of Applied and Environmental Chemistry, University of Szeged, Szeged, Hungary), Tamás Boldizsár, Henrik Haspel, Zoltán Kónya, Akos Kukovecz

[pH-regulated Antimony Oxide Nanoparticle Formation on Titanium Oxide Nanostructures: A Photocatalytically Active Heterojunction](#)

11:40 to 12:00

Alireza Z. Moshfegh (Department of Physics & Nano Institute, Sharif University of Technology, Tehran, Iran (Islamic Republic of)), Mahdi Ebrahimi, orasae Samadi, Samira Yousefzadeh

[Hierarchical ZnO nanostructures engineering: influence of surface morphology on photocatalytic and photoelectrochemical performance](#)

12:00 to 12:20

Mitsuharu Chisaka (Department of Sustainable Energy, Hirosaki University, Hirosaki, Japan), Noriaki Itagaki, Yusuke Yamamoto

[Support-Free-Titanium Oxynitride Nanocatalysts for Oxygen Reduction Reaction in Acidic Media](#)

Novel Characterization Tools

Room : Juhasz Gyula Terem

Chaired by: Tamas Pajkossy and Maria Valnice Boldrin Zanoni

09:20 to 10:00 Invited

Gerko Oskam (Department of Applied Physics, CINVESTAV-IPN, Merida, Mexico), Rodrigo Garcia Rodriguez, Geonel Rodriguez Gattorno, Ingrid Rodriguez Gutierrez

[Photoelectrochemical Characterization of Metal Oxides for Solar Water Splitting](#)

10:00 to 10:20

Michelle Weber (Institute for Physical and Theoretical Chemistry (IPTC), University of Tuebingen, Tuebingen, Germany), Marcus Scheele

[Revealing Electronic Coupling in Semiconductor Nanoparticle Networks by Electrochemistry](#)

10:20 to 10:40

Andrés F. Molina Osorio (Chemical Sciences, The Bernal Institute, University of Limerick, Limerick, Ireland), Micheal D. Scanlon

[Dynamic Photoelectrochemical Analysis of Photo-induced Electron Transfer at the Interface between Two Immiscible Electrolyte Solutions Functionalized with Photocatalytic Porphyrin Aggregates](#)

10:40 to 11:00

[Coffee Break](#)

11:00 to 11:20

Alexandre Baccaro (Fundamental Chemistry, University of Sao Paulo, Sao Paulo, Brazil), Lúcio Angnes, Ivano G.R. Gutz

[The role of supporting electrolyte in the kinetic of photocatalytic processes: using the electrochemical approach for probing its effect on reactions at the interface of nanoparticulate P25 TiO₂](#)

11:20 to 11:40

Damián Monllor-Satoca (Analytical and Applied Chemistry, Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain), Teresa Andreu, Cristian Fàbrega, Joan Ramon Morante, Sebastián Murcia-López

[Photocurrent Transients Revisited: Analysis of the Light-mediated Processes with a Wavelength-dependent Kinetic Model](#)

11:40 to 12:00

Tamás Pajkossy (Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, HAS, Budapest, Hungary)

[On the nature of the electrochemical double layer](#)

12:00 to 12:20

Franziska Hegner (Chemistry, Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain), Jose-Ramon Galan Mascaros, Sixto Gimenez, Nuria Lopez

[Experimental and theoretical investigation of Prussian blue type redox catalysts for artificial photosynthesis](#)

Poster Presentations

Poster presentation session and Wine tasting
on Monday 17:40 to 18:40

Poster presentation session
on Tuesday 13:00 to 14:00

Solar Fuels

s1-001

Suresh Kannan Balasingam (Department of Materials Science and Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway), Kaushik Jayasayee, Thirugnasambandam Manivasagam, Solon Oikonomopoulos, Svein Sunde, Srinivas Thangavel

[Hematite/Graphene Bi-layered Photoelectrodes for Efficient Solar Fuel Conversion](#)

s1-002

Gabriel Loget (CNRS / ISCR, Université de Rennes 1, Rennes, France)

[Silicon Photoanodes Stabilized by Electrodeposited Ni Nanoparticles](#)

s1-003

Yoshihiro Sugie (Unit Team, Yumex Inc., Himeji, Japan), Yoshitaka Chigi, Kiyohiro Inoue, Sunao Ioku, Hiroki Sugishita

[Development of Metallic Bipolar Plate for PEFC by Coating Carbon Thin Film on Stainless Steel](#)

s1-004

Lishan Zheng (Department of Gemology, University of Geosciences, Wuhan, China), Ting Lei, Chengbo Wang, Xinqiang Yuan

[Influence of pulse period of PR plating on the properties of electrodeposited coatings of gold](#)

Synthesis of Semiconductor Electrodes

s2-001

Fadi Kamal Aldibaja (Chemistry, ULB, Bruxelles, Belgium), Moussa Bougouma, Claudine Buess-Herman, Thomas Doneux, El Amine Mernissi Cherigui

[Photoactivity of Copper Selenide Thin Films Electrodeposited from a Choline Chloride-Urea Electrolyte](#)

s2-002

Karolina Gawlak (Department of Physical Chemistry and Electrochemistry, Faculty of Chemistry, Jagiellonian University in Krakow, Kraków, Poland), Magdalena Gurgul, Grzegorz D. Sulka, Karolina Syrek, Leszek Zaraska

[Photoelectrochemical Properties of Nanoporous Anodic Tin-Oxide Layers](#)

s2-003

Dong Suk Han (Chemical Engineering, Texas A&M University at Qatar, Doha, Qatar), Ahmed Abdel-Wahab, Alok D. Bokare, Wonyong Choi, Tae Hwa Jeon, Hyunwoong Park

[Dual Modification of Hematite Photoanode by Sn-doping and Nb₂O₃-Layer for Water Oxidation](#)

s2-004

Joanna Kapusta-Kolodziej (Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Cracow, Poland), Ada Chudecka, Grzegorz D. Sulka

[Fabrication of 3D Nanoporous Anodic Titania as a Promising Photoelectrode Material](#)

s2-005

Joanna Kapusta-Kolodziej (Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Cracow, Poland), Karolina Syrek, Grzegorz D. Sulka

[Fabrication and Characterization of Porous Anodic Titanium Oxide by Pulse Anodization](#)

s2-006

Hsin-Yi Lee (Scientific Research Division, Hsinchu, Taiwan), Yen-Ting Liu

[Great Performance of Ultra-Thin Orientated BiFeO₃ Films Deposited by Atomic Layer Deposition](#)

s2-007

Rachedi Nacera (Physics, Research Center in Semi-Conductors Technology for Energetic, Algiers, Algeria), Maneseri Amar, Dokhane Nahed, Hadjersi Toufik

[Electrophoretic Deposition of Diamond-Like Carbon \(DLC\) onto Silicon Nanowires](#)

s2-008

Robert Ondok (Department of Physical Chemistry and Materials Science, University of Szeged, Szeged, Hungary), Csaba Janáky, Attila Kormányos

[Controlled synthesis and CO₂ photoelectroreduction activity of conducting polymer/SiC hybrid nanostructures](#)

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 (*Tue s5*)11:20, *s2-008*
 Krbal, Milos, (*Mon s2*)10:00
 Krischer, Katharina, (*Tue s1*)10:00

Krok, Franciszek, *s3-013*
 Krtil, Petr, (*Mon s1*)10:20, (*Mon s1*)10:20
 Krysiak, Olga, (*Tue s5*)10:00
 Krysova, Hana, (*Mon s3*)14:40
 Kubicki, Maciej, *s5-022*
 Kudo, Akihiko, (*Mon s5*)16:20
 Kukovecz, Akos, (*Wed s5*)11:20, *s2-011*
 Kulak, Anatoly, *s3-003*
 Kulesza, Pawel J., (*Mon s1*)09:20, *s4-007,*
s5-018, s5-019, s5-022
 Kuncewicz, Joanna, (*Mon s2*)11:00

L

Laberty-Robert, Christel, (*Mon s3*)17:00
 Lachaume, Raphael, (*Mon s5*)17:20
 Lamoen, Dirk, (*Tue s5*)12:00
 Lavrijzen, Reinoud, (*Mon s5*)16:40,
 (*Wed s5*)10:00
 Le Gall, Sylvain, (*Mon s5*)17:20
 Leão Neto, Vanildo Souza, *s3-005*
 Lednický, Tomas, *s3-002*
 Lee, Chih-Yen, *s5-004*
 Lee, Hsin-Yi, *s2-006*
 Lee, Jae-Joon, (*Tue s1*)09:20
 Lee, Jeong-seon, *s5-013*
 Lee, Min-Han, *s5-012*
 Lee, Moo-Sung, *s5-015*
 Lee, Soo Youn, (*Tue s1*)11:40
 Lee, Wen-Hsi, *s5-004*
 Lei, Ting, *s1-004*
 Leung, Man-kit, (*Mon s3*)16:20
 Lewerenz, Hans-Joachim, (*Mon s2*)14:40,
 (*Tue s1*)11:00
 Lewis, Nathan, (*Tue*)08:20
 Li, Qi, (*Tue s1*)10:00
 Liang, Yan, *s4-002, s4-003*
 Liedtke, Janine, (*Tue s1*)11:00
 Lim, Jinsub, *s5-013*
 Lim, Seong Yul, (*Tue s1*)11:40
 Lin, You-Shiang, (*Mon s3*)16:20
 Lisowska-Oleksiak, Anna, *s2-009, s3-010,*
s3-013
 Liu, Yen-Ting, *s2-006*
 Lo Presti, Leonardo, (*Mon s3*)17:20
 Loget, Gabriel, (*Tue s1*)12:00, *s1-002*
 Longo, Claudia, *s4-004*

Lopez, Nuria, (*Wed s4*)12:00
 Lotowska, Weronika A., *s5-018*
 Louh, Rong-Fuh, *s4-005*
 Lu, Patrick, *s4-005*
 Lugli, Paolo, (*Tue s1*)10:00

M

Macak, Jan, (*Mon s2*)10:00
 Machida, Katsuyuki, *s5-003*
 Macyk, Wojciech, (*Mon s2*)09:20, *s3-007*
 Magnin, Vincent, (*Mon s5*)17:20
 Maier, Thomas L., (*Tue s1*)10:00
 Majjenburg, A. Wouter, (*Mon s1*)10:00,
s5-001
 Malashchonak, Mikalai, *s3-001*, *s3-003*
 Manivasagam, Thirugnasambandam, *s1-001*
 Marcaccio, Massimo, (*Wed s5*)10:20
 Mardosaite, Rasa, *s3-014*
 Masu, Kazuya, *s5-003*
 Matsushima, Hisayoshi, (*Tue s1*)11:00
 May, Matthias M., (*Mon s2*)14:40
 Mazanik, Alexander, *s3-003*
 Melchionna, Michele, (*Wed s5*)10:20
 Mendes, Adélio, (*Mon s3*)15:40
 Mendieta Reyes, Nestor Eduardo,
 (*Mon s1*)12:00
 Mernissi Cherigui, El Amine, *s2-001*
 Meroni, Daniela, (*Mon s3*)17:20
 Michalska-Domańska, Marta,
 (*Mon s2*)12:00, (*Mon s2*)12:00
 Mika, Krystyna, (*Mon s2*)10:20
 Millet, Pierre, (*Mon s5*)16:20
 Minhová Macounová, Kateřina,
 (*Mon s1*)10:20
 Mitrovic, Slobodan, (*Tue s1*)11:00
 Möinig, Heike, (*Mon s2*)14:40
 Molina Osorio, Andrés F., (*Tue s1*)10:10,
 (*Wed s4*)10:20
 Monllor-Satoca, Damián, (*Wed s4*)11:20
 Morante, Joan Ramon, (*Wed s4*)11:20
 Mortet, Vincent, (*Mon s3*)14:40
 Moshfegh, Alireza Z., (*Wed s5*)11:40,
 (*Wed s5*)11:40, *s5-014*, *s5-014*
 Mozalev, Alexander, *s3-002*
 Muñoz, Andrés G., (*Mon s2*)14:40
 Murcia-López, Sebastián, (*Wed s4*)11:20

N

Nacera, Rachedi, *s2-007*
 Nagel, Robin, (*Tue s1*)10:00
 Nahed, Dokhane, *s2-007*
 Nebel, Roman, (*Mon s1*)10:20
 Ng, Siowwoon, (*Mon s2*)10:00
 Ngila, Jane, (*Mon s3*)16:40
 Nguyen Van Nhien, Albert, (*Mon s3*)17:00
 Nichols, Richard J., (*Tue s5*)10:20
 Niño-Gómez, Martha, (*Wed s5*)11:00
 Noh, Tae-Hyoung, *s5-015*
 Norkus, Eugenijus, *s5-016*, *s5-020*, *s5-021*
 Nune, Satya Vijaya Kumar, *s5-009*
 Nyga, Piotr, (*Mon s2*)12:00

O

Odetola, Christopher, *s3-012*
 Ohtani, Bunsho, (*Mon s2*)11:00,
 (*Mon s2*)14:00
 Oikonomopoulos, Solon, *s1-001*
 Okoth, Otieno Kevin, *s4-010*
 Ondok, Robert, (*Tue s5*)11:20, *s2-008*
 Oskam, Gerko, (*Wed s4*)09:20

P

Pacia, Michal, (*Mon s2*)09:20
 Pajkossy, Tamás, (*Wed s4*)11:40
 Palchetti, Ilaria, *s3-011*
 Panzarasa, Guido, (*Mon s3*)17:20
 Paolucci, Francesco, (*Wed s5*)10:20
 Park, Hong Sik, *s5-015*
 Park, Hyunwoong, (*Tue s1*)09:20,
 (*Tue s1*)09:20, *s2-003*
 Partoens, Bart, (*Tue s5*)12:00
 Patroniak, Violetta, *s5-022*
 Peleyeju, Moses, (*Mon s3*)16:40
 Peter, Laurence, (*Wed s4*)08:20
 Petronella, Francesca, *s3-011*
 Pifferi, Valentina, (*Mon s3*)17:20, *s3-011*
 Pilarczyk, Kacper, *s3-007*
 Pisarek, Marcin, (*Tue s1*)11:20
 Prato, Maurizio, (*Wed s5*)10:20
 Prikryl, Jan, (*Mon s2*)10:00

Q

Quang, Ngyuen, *s3-006*

R

Raczkowska, Adrianna, *s5-018*
 Ragoisha, Genady, *s3-001*
 Rahemi, Vanousheh, (*Tue s5*)12:00
 Rajeshwar, Krishnan, (*Mon s2*)15:20
 Ramírez, Daniel, *s5-017*
 Rapino, Stefania, (*Wed s5*)10:20
 Rastgar, Shokoufeh, *s4-006*
 Richter, Matthias H., (*Tue s1*)11:00
 Rios-Niño, Johan, (*Wed s5*)11:00
 Roberto Guimarães, José, *s4-004*
 Rodrigues-Silva, Caio, *s4-004*
 Rodriguez Gattorno, Geonel, (*Wed s4*)09:20
 Rodriguez Gutierrez, Ingrid, (*Wed s4*)09:20
 Rossmeisl, Jan, (*Mon s1*)10:20
 Rutkowska, Iwona A., (*Mon s1*)09:20,
s4-007, s5-018, s5-019, s5-022
 Ryu, Hye-Min, *s5-015*

S

Sabatini, Natalia, *s4-004*
 Sagaidak, Iryna, (*Mon s3*)17:00
 Samadi, Morasae, (*Wed s5*)11:40
 Samu, Gergely, (*Mon s2*)15:20, *s3-015*
 Santinacci, Lionel, (*Tue s1*)12:00
 Sarker, Swagotom, (*Mon s2*)15:20
 Sarmadian, Nasrin, (*Tue s5*)12:00
 Sauvage, Frederic, (*Mon s3*)17:00
 Scanlon, Micheal D., (*Tue s1*)10:10,
 (*Wed s4*)10:20
 Scarabino, Sabina, *s3-008*
 Scheele, Marcus, (*Wed s4*)10:00
 Schindler, Werner, (*Tue s1*)10:00
 Schwarzacher, Walther, (*Tue s5*)10:20
 Seta, Ewelina, (*Mon s1*)09:20, *s4-007,*
s5-018, s5-019
 Sheu, Fu-Jye, (*Mon s5*)17:00
 Shin, Hyunjung, (*Tue s5*)11:00
 Simkunaite-Stanyniene, Birute, *s5-021*
 Sinha, Rochan, (*Mon s5*)16:40
 Siuzdak, Katarzyna, *s2-009, s3-010*
 Skorb, Ekaterina, *s3-003*
 Skorupska, Katarzyna, (*Mon s1*)09:20
 Slojewski, Krzysztof, (*Mon s1*)09:20
 Solarska, Renata, (*Mon s1*)09:20,
 (*Tue s1*)11:20, *s5-019*

Soliveri, Guido, (*Mon s3*)17:20
 Sone, Masato, *s5-003*
 Song, Heykeyang, *s5-013*
 Sopha, Hanna, (*Mon s2*)10:00
 Stanchik, Alena, *s2-010*
 Stankeviciene, Ina, *s5-020, s5-021*
 Stoll, Thibaut, (*Wed s5*)10:00
 Streltsov, Eugene, *s3-001, s3-003*
 Striccoli, Marinella, *s3-011*
 Stulp, Simone, (*Mon s1*)11:20
 Subramanian, Vaidyanathan, (*Mon s2*)15:20
 Suesca Botia, Julieth, (*Tue s5*)11:40, *s3-009*
 Sugie, Yosohiro, *s1-003*
 Sugishita, Hiroki, *s1-003*
 Sukackiene, Zita, *s5-020*
 Sulka, Grzegorz D., (*Mon s2*)10:20, *s2-002,*
s2-004, s2-005
 Sun, Chung-Ren, *s5-004*
 Sunde, Svein, *s1-001*
 Swietek, Elzbieta, *s3-007*
 Syrek, Karolina, (*Mon s2*)10:20, *s2-002,*
s2-005
 Szacilowski, Konrad, *s3-007*
 Szaniawska, Ewelina, (*Mon s1*)09:20,
s4-007, s5-018, s5-019, s5-022
 Szkoda, Mariusz, *s2-009, s3-010, s3-013*
 Szostak, Roman, *s5-023, s5-024*

T

Tamasauskaite-Tamasiunaite, Loreta,
s5-020, s5-021
 Tang, Haochun, *s5-003*
 Tanyeli, Irem, (*Mon s5*)16:40
 Testolin, Anna, *s3-011*
 Thangavel, Srinivas, *s1-001*
 Ting-Kan, Tsai, *s4-008*
 Torralba Peñalver, Encarnación,
 (*Mon s1*)11:00, (*Mon s5*)17:20
 Toufik, Hadjersi, *s2-007*
 Trevani, Liliana, *s3-012*
 Trochowski, Mateusz, (*Mon s2*)09:20,
s3-007
 Trzeciński, Konrad, *s2-009, s3-013*
 Tsai, Karsa, *s4-005*
 Tsai, Yung-Pin, *s4-009*
 Tsampas, Michail, (*Wed s5*)10:00

U

Umukoro, Eseoghene, (*Mon s3*)16:40
Urazov, Kazhmukhan, *s2-010*

V

Valatka, Eugenijus, *s3-014*
Valenti, Giovanni, (*Wed s5*)10:20
Van de Sanden, M.C.M., (*Mon s5*)16:40
Varga, András, *s3-015*
Varga, Tamas, *s2-011*
Vayssieres, Lionel, (*Tue s5*)09:20
Vezzoli, Andrea, (*Tue s5*)10:20
Vilà, Neus, (*Mon s2*)15:00
Vilcot, Jean Pierre, (*Mon s5*)17:20
Villagra, Angel, (*Mon s5*)16:20
Visy, Csaba, (*Mon s2*)15:20
Vlckova-Zivcova, Zuzana, (*Mon s3*)14:40

W

Wadas, Anna, (*Mon s1*)09:20, *s4-007*,
s5-022
Walcarius, Alain, (*Mon s2*)15:00
Wang, Chengbo, *s1-004*
Wang, Haipeng, *s4-002*, *s4-003*
Wang, Shan-Yu, *s5-012*
Weber, Michelle, (*Wed s4*)10:00
Wedege, Kristina, (*Mon s3*)15:40
Wei, Yi-Hung, *s3-004*
Wittstock, Gunther, *s3-008*
Wójcik, Kamil, *s5-023*, *s5-024*
Woo, Min Hong, *s5-025*
Wu, Ding-Ye, *s5-002*
Wu, Kevin Chia-Wen, *s5-012*

X

Xu, Lu, *s4-002*

Y

Yamamoto, Yusuke, (*Wed s5*)12:00
Yamane, Daisuke, *s5-003*
Yan, Kai, (*Mon s3*)15:00, *s4-010*
Yang, Haesik, *s3-016*
Yang, Tzu-Ming, *s5-002*
Yang, Yaohua, (*Mon s3*)15:00
Yeh, Min-Hsin, *s5-012*
Yen, Howard, *s4-005*
Yi-Fen, Cheng, *s4-008*
Yoon, Seog Joon, (*Mon*)08:20
Yoshiba, Masaharu, *s5-003*
Yousefi, Mahdieh, *s5-014*
Yousefzadeh, Samira, (*Wed s5*)11:40
Yu, Hsin-Fu, (*Mon s3*)16:20
Yuan, Xinqiang, *s1-004*

Z

Zafeiropoulos, George, (*Wed s5*)10:00
Zaraska, Leszek, (*Mon s2*)10:20, *s2-002*
Zazpe, Raul, (*Mon s2*)10:00
Zhang, Jingdong, (*Mon s3*)15:00, *s4-010*
Zhang, Tianyue, (*Tue s1*)10:00
Zheng, Lishan, *s1-004*
Zimmermann, Josef, (*Tue s1*)10:00
Zoladek, Sylwia, (*Mon s1*)09:20, *s4-007*
Zych, Marta, (*Mon s2*)10:20

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