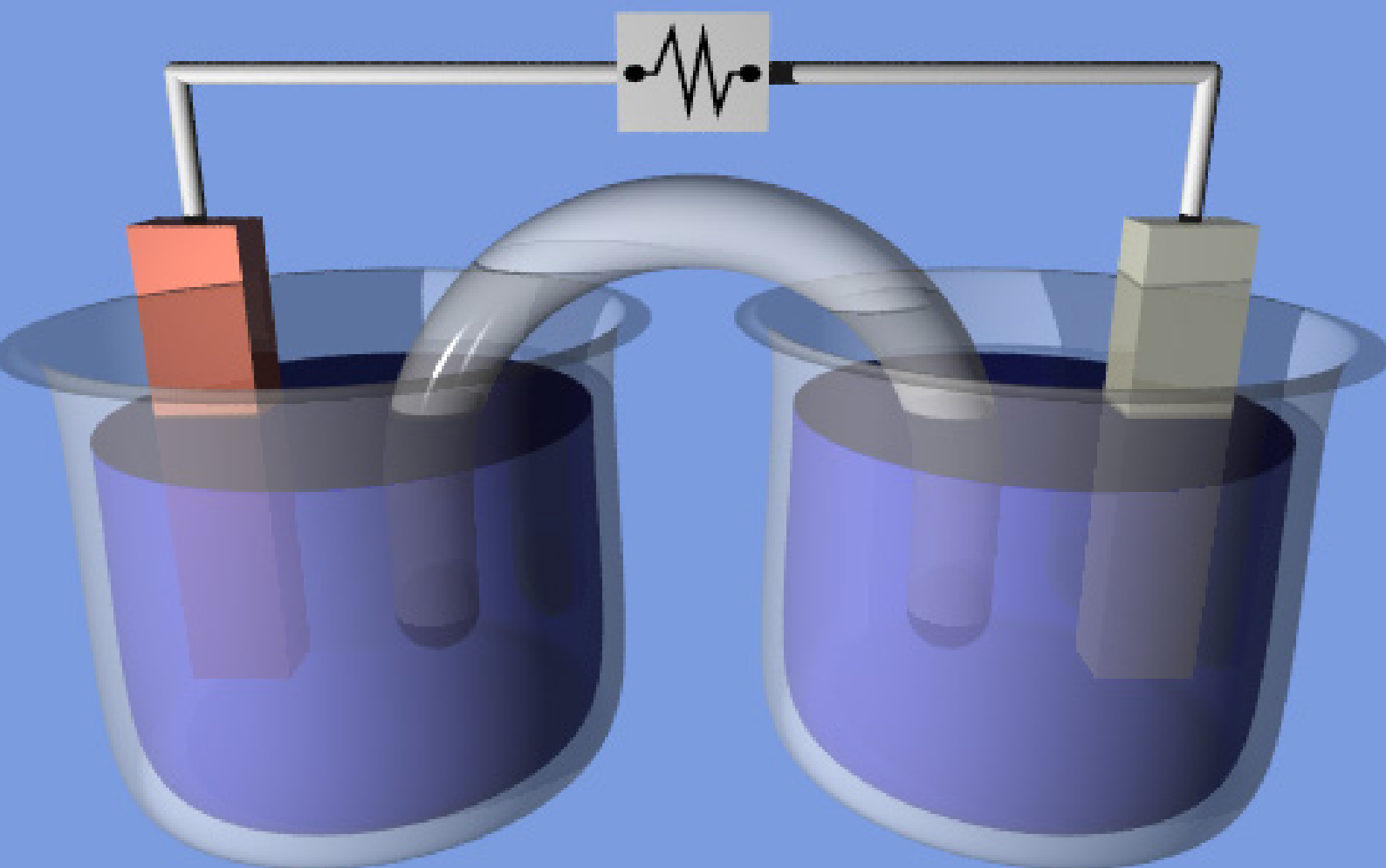


3rd International Conference on

Electrochemistry

July 10-11, 2017 Berlin, Germany



Conference Series - America

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Sylt 4-5

conference**series**.com 08:30-08:40

Opening Ceremony

Keynote Forum

08:40-08:45 Introduction

Title: Implantable biofuel cells operating *in vivo* – potential power sources for bioelectronics devices – from basic research to practical applications

08:45-09:10

Evgeny Katz, Clarkson University, USA

Title: Template-realized functional nanostructures for energy conversion and storage devices

09:10-09:35

Yong Lei, University of Ilmenau, Germany

Networking & Refreshments 9:35-9:50 @ Sylt Foyer

Session: Advances in Electrochemistry | Theoretical and Computational Electrochemistry | Electroanalytical Chemistry | Electrochemical Energy Conversion and Storage | Bioelectrochemistry

Session Chair: Ruiyong Chen, Joint Electrochemistry Lab, KIST, Germany

Session Co-Chair: Vardan Galstyan, University of Brescia, Italy

09:50-10:10

Title: What ion flow along ion channels can tell about their functional activity

Rolando Guidelli, Florence University, Italy

10:10-10:30

Title: Advanced electroactive materials based on lignosulfonates

Grzegorz Milczarek, Poznan University of Technology, Poland

10:30-10:50

Title: Study on performance of alkaline water electrolysis (AWE)

Akiyoshi Manabe, De Nora Permelec Ltd., Japan

Title: Effective nanomaterials for glucose oxidation in an electrochemical energy converter:

10:50-11:10

Cogenerating organic electrosynthesis

Kouakou Boniface KOKOH, University of Poitiers, France

Title: Computational verification of so-called perovskite solar cells using density functional theory

11:10-11:30

Shozo Yanagida, Osaka university, japan

Title: Progress and Challenges in Galvanic Activation of Electrodes for Solar Water Splitting

11:30-11:50

Andrés G. Muñoz, GRS gGmbH, Germany

Title: From The Microscopic Theory of The Electrochemical Atomic Layer Deposition (EC-ALD) to Atomistic Simulations

11:50-12:10

Pascal Boulet, Aix-Marseille University, France

Title: Efficient hydrogen production on MoNi₄ electrocatalysts with fast water dissociation kinetics

12:10-12:30

Jian Zhang, TU Dresden, Germany

Title: Iodides confinement within activated carbon porosity resulting battery-type electrode for aqueous hybrid supercapacitor

12:30-12:50

Qamar Abbas, Poznan University of Technology, Poland

Group Photo

Lunch @ Restaurant Rienacker 12:50-13:35

13:35-13:55

Title: Electrochemiluminescent chemodosimetric sensor for rapid determination of cyanide

Ik-Soo Shin, Soongsil University, Korea

13:55-14:15 Title: **3D structured porous transition-metals poly-phosphides nanoneedle arrays as an efficient bifunctional electrocatalyst for the evolution reaction of hydrogen and oxygen**
Shijian Chen, Chongqing University, China

Sessions: **Electrochemical surface science | Batteries and Energy sources | Organic and Organometallic Electrochemistry**

Session Chair: **Teko W. Napporn**, French National Center for Scientific Research (CNRS), France

Session Co-Chair: **Marie-Christine Record**, Aix-Marseille University, France

14:15-14:35 Title: **High voltage aqueous redox flow batteries**

Ruiyong Chen, Joint Electrochemistry Lab, KIST, Germany

14:35-14:55 Title: **Intercalation type electrode materials for fluoride ion batteries**

Oliver Clemens, TU Darmstadt, Germany

14:55-15:15 Title: **Rechargeable batteries based on chloride ion transfer**

Xiangyu Zhao, Nanjing Tech University, China

15:15-15:35 Title: **Hole transport in oxidized DNA: An integrated approach based on electrochemistry, spectroscopy and quantum chemistry**

Amedeo Capobianco, University of Salerno, Italy

Networking and Refreshments @ Sylt Foyer 15:35 -15:50

15:50-16:10 Title: **Gold nanospheres in electrocatalysis: surface interaction with glucose**

Teko W. Napporn, French National Center for Scientific Research (CNRS), France

16:10-16:30 Title: **Electron transfer in coordination-based molecular assemblies**

Milko E. van der Boom, The Weizmann Institute of Science, Isarel

16:30-16:50 Title: **Metalloorganic assemblies as electrochromic materials: Switching stability, coloration efficiencies and devices**

Michal Lahav, The Weizmann Institute of Science, Isarel

16:50-17:10 Title: **Electrochemical Atomic Layer Deposition (EC-ALD) of semiconducting materials**

Marie-Christine Record, Aix-Marseille University, France

17:10-17:30 Title: **Synthesis and characterization of Ni- and Ti substituted Li_2MnO_3 positive electrode material for lithium-ion battery**

Mitsuharu Tabuchi, National Institute of Advanced Industrial Science and Technology (AIST), Japan

17:30-17:50 Title: **Electro-Active Ruthenium-Amine conjugated organometallic materials**

Yu-Wu Zhong, Chinese Academy of Sciences, China

17:50-18:10 Title: **Evaluation of doped graphene materials for electrochemical hydrogen evolution reaction and oxygen reduction reaction**

Yan Jiao, The University of Adelaide, Australia

18:10-18:30 Title: **Electrodes and solid electrolytes for Li-Ion batteries local structures, li-Ion mobility, and lithiation mechanisms**

Sylvio Indris, Karlsruhe Institute of Technology, Institute for Applied Materials – Energy Storage Systems, Germany

Day 2 July 11, 2017

Sytl 4-5

Keynote Forum

09:00-09:25 Title: **In situ' SERS effect studies with screen-printed electrodes and a compact Raman Spectroelectrochemical instrument**

Pablo Fanjul Bolado, DropSens company, Spain

09:25-09:50 Title: **Investigation of ionic liquid interfaces using time- and position-resolved XPS**

Sefik Suzer, Bilkent University, Turkey

Networking & Refreshments @ Sylt Foyer 09:50-10:05

Sessions: Corrosion science and Technology | Physical and Analytical Electrochemistry | Applications of Electrochemistry | Carbon Nanostructures and Devices | Potentiostat Electrochemistry

Session Chair: Andres G. Muñoz, GRS gGmbH, Germany

Session Co-Chair: Kouakou Boniface KOKOH, University of Poitiers

- 10:05-10:25** Title : **The protoelectric potential map – unified acidity and reductivity scales and their experimental realization**
Ingo Krossing, Albert-Ludwigs-University, Germany
- 10:25-10:45** Title : **Photophysical and electrochemical properties of perylene diimide dyes in solutions, solid state and self-assembled microstructures**
Huriye ICIL, Eastern Mediterranean University, Turkey
- 10:45-11:05** Title : **Electrochemical degradation of dairy effluent using novel Sn/Sb/Ni-Ti anodes**
Taner Yonar, Uludag University, Turkey
- 11:05-11:25** Title : **Ideally ordered nanohole array obtained by anodizing pretextured metals**
Toshiaki Kondo, Tokyo Metropolitan University, Japan
- 11:25-11:45** Title : **All-printed electrochemical thin-film transistors from networks of liquid-exfoliated nanosheets**
Jonathan Coleman, CRANN and AMBER Research Centres, Ireland
- 11:45-12:05** Title : **Electrochemical surface modification of metal oxides for security applications and healthcare**
Vardan Galstyan, University of Brescia, Italy
- 12:05-12:25** Title : **Recent advances in the determination of electronic properties of passive films by electrochemical impedance spectroscopy**
Benoit Ter-Ovanessian, University of Lyon, France
- 12:25-12:45** Title : **Study on the galvanic corrosion of ferrite-pearlite steel and its control under an acid environment**
Junhua Dong, Institute of Metal Research (IMR), Chinese Academy of Sciences (CAS), China
- 12:45-13:05** Title : **Structural effects on the oxygen reduction reaction on single crystal electrodes Pt modified with amines**
Nagahiro Hoshi, Chiba University, Japan

Lunch @ Restaurant Rienacker 13:05-13:45

Poster Presentations @ Sylt Foyer 13:45-14:15

- EC001** Title: **Characterization of anion substitution effect on olivine structured cathode materials for lithium-ion battery**
Youngil Lee, University of Ulsan, Korea
- EC002** Title: **Chelating-assisted soft-templating synthesis of ordered mesoporous TM-doped TiO₂ for Enhanced Catalytic Oxygen Evolution**
Mabrook Saleh Ali Saleh, King Saud University, Saudi Arabia
- EC003** Title: **Carbon dots as liquid and gel-type electrolytes for high-performance electrochromic devices**
EunJi Park, Soongsil University, Korea
- 14:15-14:35** Title : **Exploring ionic liquids and solar water splitting catalysis via high-performance ab initio molecular dynamics**
Sandra Luber, University of Zurich, Switzerland
- 14:35-14:55** Title : **Recent progress in bifunctional catalysts for rechargeable Li-air batteries**
Chunwen Sun, Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, China

14:55-15:15 Title : **Electrochemical properties of AlCl₃/glyme baths for room temperature aluminum electrodeposition**

Atsushi Kitada, Kyoto University, Japan

Networking & Refreshment @ Syll Foyer 15:15-15:30

Young Research Forum

15:30-15:45 Title: **Determination of the kinetic parameters of oxygen reduction on copper using a rotating disk electrode in neutral medium**

Nisrine Benzaira, University of Chouaib Doukkali, Morocco

15:45-16:00 Title: **Inhibition Of copper corrosion In 0.1m Nacl solution By 1.3.4 Thiadiazole 2.5 Dithiol(Dmtd): experimental and theoretical study**

Siham Echihi, University of Chouaib Doukkali, Morocco

16:00-16:15 Title: **Highly active and stable heteroatoms-doped supported spinel nanoparticles as bi-functional oxygen electrocatalysts**

Ismail Abidat, University of Poitiers, France

16:15-16:30 Title: **Microdisc versus microcylinder electrodes: detection of solution phase trace oxygen**

Kristina Cinkovaa, Slovak University of Technology, Slovakia

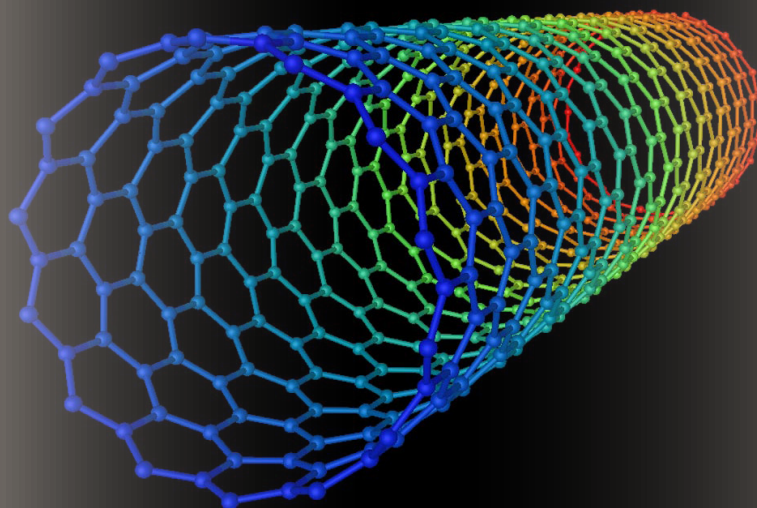
16:30-16:45 Title: **On-site production of hydrogen peroxide in electrocatalysis and in heterogeneous catalysis**

Enrico Pizzutilo, Max-Planck Institut for Iron Research, Germany

16:45-17:00 Title: **Stability challenges of iridium-based oxides towards acidic water splitting – Structure matters!**

Simon Geiger, Max-Planck Institut for Iron Research, Germany

Award & Closing Ceremony



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