

Symposium

Oral presentation

Room Tycho, Monday - Friday

- s4 Waseem Raza, Stepan Kment, Patrik Schmuki, *Thermal ramping rate during annealing of TiO₂ nanotubes greatly affects performance of photoanodes*, **Abstract.**
- s4 Hyesung Kim, Yue Wang, Nikita Denisov, Zhenni Wu, Stepán Kment, Patrik Schmuki, *DC Magnetron Sputtered TiO₂ Layers on FTO: Towards a Maximum Photoelectrochemical Conversion Efficiency and Anatase Selectivity*, **Abstract.**
- s4 Anton Lytvynenko, *Electrode Materials Based on Metal Nanofoams for Reductive Degradation of Halogen-Organic Wastes*, **Abstract.**
- s4 Michal Zelenský, Jan Hrabovský, Martin Zuckerstein, Juraj Sládek, Nadezhda Bulgakova, Andrew Taylor, Vincent Mortet, Karolina Schwarzova-Peckova, *Laser-controlled introduction of sp² carbon to chem-mechanically polished boron doped diamond electrodes: complex characterization*, **Abstract.**
- s4 Joohoon Kim, Taehoon Cho, Hyein Lee, Jiwoo Kim, Sungeun Han, Jeongyun Choi, Aeri Chu, *Synthesis of Dendrimer-encapsulated Pt Nanoparticles Synthesized via Repetitively Coupled Galvanic Exchange and Chemical Reduction Reactions*, **Abstract.**
- s4 Patrik Schmuki, *Single atom co-catalysts in photocatalytic H₂ generation*, **Abstract.**
- s4 Banyong Suwankaisorn, Alexander Kuhn, Chularat Wattanakit, *Enantioselective synthesis of chiral compounds on chiral encoded mesoporous copper surfaces*, **Abstract.**
- s4 Achim Walter Hassel, Dominik Knapic, Martina Muck, Johannes Heitz, Christoph Kleber, Luczak Wiktor, Werner Baumgartner, *Improvement of Ti based Dental and Bone Implants by Combining Electrochemical Preparation and Femtosecond Laser Treatment*, **Abstract.**
- s4 Nataly Rey, Alonso Gamero-Quijano, Angelika Holzinger, Ivan Robayo, Micheal Scanlon, *Identifying the Key Factors That Influence Electropolymerisation of Conducting Polymers at a Polarised Liquid-Liquid Interface*, **Abstract.**
- s4 Paulina Prslja, Miguel Caro, Xi Chen, Hannes Jónsson, *Machine Learning-Driven Discovery of Electroactive Cu-Based Alloys for CO₂ Reduction*, **Abstract.**
- s4 Samuel Perry, Iris Nandhakumar, *One-step electrochemical synthesis of doped P3HT for thermoelectric applications*, **Abstract.**
- s4 Linqian Wang, Darya Snihirova, Min Deng, Cheng Wang, Bahram Vaghefinazari, Gert Wiese, Mark Langridge, Daniel Höche, Sviatlana Lamaka, Mikhail Zheludkevich, Linqian Wang, *Insight into physical interpretation of time constants in electrochemical impedance spectra of Mg*, **Abstract.**
- s4 Jan Fransaer, Sijie Xie, Xuan Zhang, *Cathodic deposition of MOF films using hydrogen peroxide*, **Abstract.**

- s4 Weverson Capute Batalha, Virginie Roche, Alberto Moreira Jorge Junior, Marc Mantel, Yannick Champion, *Effects of crystallization on corrosion properties of a novel FeCrMoNiB alloy for marine applications*, **Abstract.**
- s4 Andres Quintero Jaime, Nicolas Rojas Sanabria, Alonso Gamero Quijano, Micheál D. Scanlon, *Polarized ITIES as a Platform for the Electrosynthesis of CNT@PEDOT Nanocomposite Thin Films for Supercapacitors Applications*, **Abstract.**
- s4 Xiaoting Chen, Marc Koper, *In situ EC-AFM study of the initial stages of cathodic corrosion of Pt(111) and polycrystalline Pt in acid solution*, **Abstract.**
- s4 Jinhyun Lee, Youjung Kim, Haneul Han, Sanghwa Yoon, Bongyoung Yoo, *Study of Cu Electrochemical Polishing in a Novel Solution*, **Abstract.**
- s4 Julien Sarmet, Christine Taviot Gueho, Fabrice Leroux, Philippe Stevens, Thierry Brousse, *Layered Double and Single Hydroxides for Advanced Energy Storage Devices*, **Abstract.**
- s4 Nicolás Rojas-Sanabria, Alonso Gamero-Quijano, Angelika Holzinger, Rob A. Lehane, Micheál D. Scanlon, *Electrosynthesis of PEDOT-Gold Nanocomposite Films at a Liquid|Liquid Interface and their Electrochemical Performance*, **Abstract.**
- s4 Toni Moser, Andrea Auer, Julia Kunze-Liebhäuser, *Cu(111) Oxidation Imaged in Oxygen Free Alkaline Media with Electrochemical Scanning Tunneling Microscopy*, **Abstract.**
- s4 Mahnaz Alijani, Hanna Sopha, Jan M. Macak, *Fast Anodic Growth of High Aspect Ratio TiO₂ Nanotube Layers*, **Abstract.**
- s4 Vasil Karastoyanov, Iva Betova, Martin Bojinov, *Long-Term Oxidation of Zirconium Alloy in Simulated Nuclear Reactor Primary Coolant “Experiments and Modeling*, **Abstract.**
- s4 Robin Kroll, Philip Kearns, Dirk L. Engelberg, *Determination of local passivation characteristics of pure aluminium 99.5wt% and aluminium alloy 7075-T6 with an electrochemical pen electrode*, **Abstract.**
- s4 Yashwardhan Deo, Anna K Mechler, *The Effect of Morphology and Structure of Electrodeposited Nickel Catalysts for the Oxygen Evolution Reaction (OER)*, **Abstract.**
- s4 Nicola Comisso, Luca Mattarozzi, Marco Musiani, Marzio Rancan, Lourdes Vázquez-Gómez, Enrico Verlato, *Investigation on the growth of oxide layers via oxide-oxide galvanic exchange reactions*, **Abstract.**
- s4 Dawid Kasprzak, Maciej Galinski, *Chitin as a universal and environmentally friendly electrode binder for electrochemical capacitors*, **Abstract.**
- s4 Joanna Dolinska, Magdalena Bonarowska, Marcin Holdynski, Adam Mames, Marcin Opallo, Barbara Palys, Tomasz Ratajczyk, *3D printed electrodes - revolution or the dead-end?*, **Abstract.**

- s4 Bilal Bawab, Hanna Sopha, Thalluri Sitaramanjaneya Mouli, Raul Zazpe, Jan Macak, Mahnaz Alijani, *Cu₂O: a Photoanodic Functional Material and Its Stabilization Against Oxidation*, **Abstract.**
- s4 Mariusz Wtulich, Sapajan Ibragimov, Maciej Bobrowski, Anna Lisowska-Oleksiak, *Electrochemically produced CoO_x onto anodized titania nanotubes tested as a photoanode in aqueous electrolyte*, **Abstract.**
- s4 Raghunandan Sharma, Per Morgen, Serguei Chiriaev, Mikkel Juul Larsen, Bertil Sieborg, Laila Grahl-Madsen, Shuang Ma Andersen, *Post-degradation case study of the membrane electrode assembly from a low-temperature PEMFC stack*, **Abstract.**
- s4 Agustin E. Bolzan, Leticia A. Azpeitia, Claudio A. Gervasi, *Comparative Study of the Electrodeposition Process of Tin on Copper Electrodes in Different Deep Eutectic Solvents*, **Abstract.**
- s4 Dongil Lee, *Electrochemical CO₂ Reduction on Atomically Precise Metal Nanoclusters*, **Abstract.**
- s4 Juan Hidalgo, Graziella Liana Turdean, Nicoleta Cotolan, *Paracetamol release study from a drug-polymer composite film by electrochemical impedance spectroscopy*, **Abstract.**