

## Symposium

### Oral presentation

#### Room Zenit, Monday - Friday

- s3a Ryan O'Connor, *Microwave assisted synthesis of Triplite,  $Mn_2(PO_4)_F$ , composites for use as electrochemical energy materials* - [U], **Abstract.**
- s3a Daniel Werner, Dogukan H. Apaydin, Dominik Wielend, Katharina Geistlinger, Wahyu D. Saputri, Ulrich J. Griesser, Emil Drazevic, Thomas S. Hofer, Engelbert Portenkirchner, *Ordering Effects in Anthraquinone Thin Films and its Potential Application for Sodium Ion Batteries* - [U], **Abstract.**
- s3a Xi Chen, Laura C. Loaiza, Laure Monconduit, Vincent Seznec, *2D Silicon-Germanium-Layered Materials as Anodes for Li-ion Batteries* - [U], **Abstract.**
- s3a Adam Mackowiak, Przemyslaw Galek, Pawel Jezowski, Krzysztof Fic, *A step potential electrochemical spectroscopy (SPECS) investigation of the lithium intercalation process* - [U], **Abstract.**
- s3a Noha Sabi, *Which Aluminium foil to choose for rechargeable Al batteries? Influence of the foil surface properties on the electrochemical behavior* - [U], **Abstract.**
- s3a Jakob Asenbauer, Anna-Lena Wirsching, Sylvio Indris, Tobias Eisenmann, Angelo Mullaliu, Adele Birrozzi, Dominic Bresser, *Unraveling the reaction mechanism of high capacity conversion/alloying Li-ion anodes* - [U], **Abstract.**
- s3a Lunara Rakhymbay, Aishuak Konarov, Zhumabay Bakenov, *PAN-coated  $Na_2Mn_3O_7$  layered cathode material with enhanced electrochemical performance for Sodium-ion battery* - [U], **Abstract.**
- s3a Xinhua Zhu, Noël Hallems, Benny Wouters, Raf Claessens, John Lataire, Annick Hubin, *Probing the Relaxation of Lithium-ion batteries by Odd Random Phase Electrochemical Impedance Spectroscopy* - [U], **Abstract.**
- s3a Tobias Eisenmann, Katrin Geng, Chun-Cheng Lin, Zhen Chen, Shan Fang, Chih-Han Yen, Stefano Passerini, Chi-Chang Hu, Dominic Bresser, Holger Euchner, *Optimizing Interfaces and Interphases towards "Anode-free" Lithium Batteries* - [U], **Abstract.**
- s3a Paulina Bujewska, Paulina Bujewska, Przemyslaw Galek, Krzysztof Fic, *Influence of the Cation Size and the Electrolyte pH on the Electrical Double-Layer Formation Determined by Electrochemical Dilatometry* - [U], **Abstract.**
- s3a Rajapriya A, Ponpandian N, *Boosting the performance of asymmetric supercapacitor with high energy density by Interfacial engineering of  $MoS_2$  on the electroactive Nickel Boride* - [U], **Abstract.**
- s3a Darya Snihirova, Linqian Wang, Bahram Vaghefinazari, Min Deng, Daniel Hoeche, Sviatlana Lamaka, Mikhail Zheludkevich, *Enhancement of Mg-air Battery Performance by Controlling the Mg Electrode-Electrolyte Interface with Additives* - [U], **Abstract.**

- s3a Soheila Ebrahimi-Koodehi, Eugenio Hernandez-Penacoba, Maria Jose Torralvo-Fernandez, Farhad Esmaeili-Ghods, Jamal Mazloom, Elizabeth Castillo-Martinez, *Effect of Synthesis Time and Temperature on High-Quality Potassium Manganese Hexacyanoferrate for Potassium Ion Battery* - [U], **Abstract.**
- s3a Almagul Mentbayeva, Nurbol Tolganbek, Madina Sarsembina, Zhumabay Bakenov, *Prevention of Reduction in NASICON-type Solid Electrolyte by Thin Polymer Coating* - [U], **Abstract.**
- s3a Dion Wilde, Daniel Witt, Mauro Sgroi, Daniel Westhoff, Simon Hein, Timo Danner, Florian Baakes, Volker Schmidt, Arnulf Latz, Ulrike Krewer, *Toward realistic battery design: drive cycle vs. constant current* - [U], **Abstract.**
- s3a Monika Wilamowska-Zawlocka, Dominik Knozowski, Pradeep Vallachira Warriam Sasikumar, Magdalena Graczyk-Zajac, Grzegorz Trykowski, Gurdial Blugan, *Binary and ternary composites based silicon oxycarbide, graphite and tin nanoparticles for fast charging Li-ion batteries* - [U], **Abstract.**
- s3a Anita Cymann-Sachajdak, Monika Wilamowska-Zawlocka, *Pickering emulsion-assisted sol-gel synthesis of core-shell Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>-carbon composite as cathode for fast charging sodium-ion batteries* - [U], **Abstract.**
- s3a Tanja Kallio, *Coatings for Engineering LiNi<sub>0.8</sub>Mn<sub>0.1</sub>Co<sub>0.1</sub>O<sub>2</sub> Properties* - [U], **Abstract.**
- s3a Sebastian Daniel Hirt, Pascal Sous, Monique Levien, Angela Kruth, Harry Hoster, Bernd Oberschachtsiek, Sebastian Daniel Hirt, *Plasma polymer encapsulated Li<sub>2</sub>S: Towards stable lithium-sulfur batteries* - [U], **Abstract.**
- s3a Maxime Nicolas, Thibaut Gutel, Lionel Dubois, Philippe Poizot, *Development Of A Promising Lithiated Organic Positive Electrode Material* - [U], **Abstract.**
- s3a Samhita Pappu, Narasinga Rao Tata, Surendra K. Martha, Sarada V. Bulusu, *High Energy Density Redox Mediated MnO<sub>2</sub> based Supercapacitor for Energy Storage Applications* - [U], **Abstract.**
- s3a Nassima Kana, Bernard Humbert, Sarah Olivier-Archambaud, Nicolas Dupré, Thomas Devic, Bernard Lestriez, *Do silicon-based electrodes for Li-ion batteries necessary need polymeric binder to well perform?* - [U], **Abstract.**
- s3a Tina Paljk, Victoria Bracamonte, Tomás Syrový, Sara Drvaric Talian, Samo Hocevar, Robert Dominko, *Reliable Electrochemical Sensor for the Detection of Dissolved Metal Ions in Li-ion Battery Electrolyte* - [U], **Abstract.**
- s3a Adam Slesinski, Justyna Piwek, Krzysztof Fic, Sergio Aina, Maria Pilar Lobera, Maria Bernechea, Elzbieta Frackowiak, *Double redox aqueous-based electrochemical capacitor outperforming organic electrolyte* - [U], **Abstract.**
- s3a Athanasios Stergiou, Mark Symes, *High Yield and Selective Electrocatalytic Reduction of Nitroarenes to Anilines using Redox Mediators* - [U], **Abstract.**
- s3a Abbas Khan, Etienne Le Calvez, Camille Douard, Olivier Crosnier, Thierry Brousse, *Tailored oxides as active materials for high power energy storage devices* - [U], **Abstract.**

- s3a Allan Lebreton, Thierry Brousse, Christophe Lethien, Olivier Crosnier, Camille Douard, Jeremy Barbe, *Influence of sputtering parameters on the microstructural and electrochemical properties of vanadium nitride/oxy-nitride thin films.* - [U], **Abstract.**
- s3a Yongil Kim, Dominik Stepien, Hyein Moon, Kay Schönherr, Matthias Kuenzel, Holger Althues, Dominic Bresser, Stefano Passerini, *Alloy-based Artificial Interphase for High-Energy Lithium-Metal Batteries* - [U], **Abstract.**
- s3a Sajad Rahimi, Lauréline Lecarme, Cristina Iojoiu, Fannie Alloin, *Synthesis and study the application of Iron, Nitrogen doped high surface area carbon for Li-S batteries* - [U], **Abstract.**
- s3a Luna Yoshida, Masashi Ishikawa, *Improved Performance of Microporous Carbon-Sulfur Composite Cathode by Polyglycerol Modification* - [U], **Abstract.**
- s3a Ievhen Obraztsov, Veronika Sedajová, Ievgen Obraztsov, Iosif Tantis, Michal Otyepka, Radek Zboril, *Densely Functionalized Low Dimensional Carbons for High Performance Electrode Materials in Energy and Environmental Applications* - [U], **Abstract.**
- s3a Carla S. Santos, Sphumelele N. Jiyane, Aliaksandr S. Bandarenka, Edgar Ventosa, Wolfgang Schuhmann, *Spatially Resolved Electrochemical Properties of Freshly Formed SEI: Revealing Heterogeneities.* - [U], **Abstract.**
- s3a Christian Leibing, Andrea Balducci, *Glyoxylic acetal based electrolytes for sodium-ion batteries* - [U], **Abstract.**
- s3a Jeong Gon Son, *Intrinsically Stretchable and Printable Lithium-Ion Battery for Free-Form Configuration* - [U], **Abstract.**