

AGEF – Seminar 107 am 08. April 2015

## Effekte an porösen Elektroden in Brennstoffzellen, Batterien und anderen elektrochemischen Systemen

Programmablauf: Beginn ab 09:30 mit Begrüßungskaffee

Uhrzeit	Vortragender	Titel
10:00 – 10:15	Prof. Dr. Agert Prof. Dr. Wittstock Peter Wagner	Begrüßung der Teilnehmer
10:15 – 11:00	Prof. Dr. Gasteiger	Proton Conduction Resistances in PEM Fuel Cell Electrodes
11:00 – 11:20	M. Sc. Gerda Seiffarth	Raman-gekoppeltes elektrochemisches Rastermikroskop - Eine Untersuchung der Sauerstoffentwicklung an NiFe-Elektroden
11:20 – 11:40	Dr. Svetlozar Ivanov	Electrochemical lithiation of Si modified TiO <sub>2</sub> nanotube arrays with different surface morphologies, investigated in ionic liquid electrolyte
11:40 – 12:00	Dipl.-Ing. Linus Froböse	Prozesstechnik und Transportmechanismen in porösen Batterieelektroden – Ein Wechselspiel
12:00 – 12:20	Dr. Daniela Fenske	Gas Diffusion Electrodes for Li/O <sub>2</sub> Batteries: Impact of Porosity, Wettability and Electrode Design
<b>Mittagspause 12:20 – 13:00</b>		
13:00 – 13:45	Prof. Dr. Turek	Modeling of porous electrodes in electrochemical systems
13:45 – 14:05	Dr. Pang-Chieh Sui	Mesoscopic modeling of PEMFC catalyst layer
14:05 – 14:25	Dr. Philipp Frania	Zink-Suspensionen als Elektroden für wiederaufladbare Zink-Luft-Batterien
14:25 – 14:40	M. Sc. Lisa-Maria Uhlig	Electrochemical characterization of catalysts for oxygen reduction reaction in alkaline media
14:40 – 15:00	Dr. Karina Elumeeva	A simple approach towards high-performance perovskite-based bifunctional oxygen electrocatalysts
<b>Kaffeepause 15:00 – 15:30</b>		
15:30 – 15:50	M. Sc. Mark Hartmann	New carbon-composite materials for electrodes in all-vanadium-redox-flow batteries
15:50 – 16:05	M. Sc. Patrick Schwager	Research on electrocatalytic centers in gas diffusion electrodes by SECM
16:05 – 16:20	M. Sc. Pratik Das	PEDOT:PSS as a Functional Binder for cathodes in Lithium Ion Battery
16:20 – 16:35	M. Sc. Jan Austing	Investigation of crossover processes in a bidirectional vanadium/air redox flow battery
16:35 – 16:45	Wassima El Mofid	Effect of morphology on the electrochemical properties of a cathode material for lithium ion batteries
16:45 – 16:55	Michael Stich	Water contaminations in electrolytes for Li ion batteries
<b>Verabschiedung und Ende der Veranstaltung ca. 17:00</b>		