

EMNT2012 SYMPOSIUM PROGRAM 15-17.08.2012

15.08.2012, Session 1

Time	Presentation number	Name	Title
9:00	Welcome Reception		
9:10	Keynote speaker	Gileadi, E.	The existence of mono-water and its possible role in corrosion
9:55	2	Lutz, A.	Following the leaching-out process of corrosion inhibitors
10:15	Coffee Break		
10:40	3	Eichel, R.	Mechanisms of early discharge termination in silicon-air batteries
11:00	4	Schneider, M.	Spatially-resolved <i>in-operando</i> temperature measurement across the interface anode/separator/cathodes of battery cell
11:20	5	Chisaka, M.	Synthesis of carbon-supported titanium oxynitride nanoparticles as cathode catalyst for polymer electrolyte membrane fuel cells
11:40	100	Nara, H.	Impedance Analysis on Effect of Flooding in Cathode Catalyst Layer of PEFC
11:45	101	Vivekananthan, J.	3D-Hierarchically-Structured Carbon Nanotube/ Carbon Microfiber Electrodes for Biocathode Applications
11:50	Lunch		

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15.08.2012, Session 2

Time	Presentation number	Name	Title
12:40	Keynote speaker	Fushimi, K.	Micro-electrode techniques for corrosion analyses
13:25	7	Mardare, A. I.	High throughput growth and characterization of anodic oxides on a thin film Hf-Nb combinatorial library
13:45	8	Schubert, N.	Microelectrochemical investigation of high rate anodic dissolution of cobalt
14:05	200	Takabatake, Y.	Grain-dependent Passivity of Iron in Sulphuric Acid using Micro-capillary Cell
14:10	201	Siket, C.	Printed high-k metal oxide dielectrics for flexible large area electronics
14:15	202	Mozalev, A.	Electrical/dielectric properties of metal oxide nanostructured films synthesized by anodic oxidation of Al/Nb bilayers
14:20	203	Kollender, J.	Localised photoelectrochemical measurements using an advanced type of scanning droplet cell
14:25	Coffee Break + Poster Market		
15:10	9	Mozalev, A.	The growth and dielectric properties of anodic films on porous-alumina-supported Ta-50wt.%Nb alloy layers
15:30	10	Tsuji, E.	Preparation and Photocatalytic Activity of Non-annealed Anatase TiO ₂ Mesoporous Film by Anodizing in Hot Phosphate/glycerol Electrolyte
15:50	11	Iken, H.	Development of redox glasses and subsequent processing with pulsed laser deposition
16:10	12	Postlethwaite, S.	Nanoelectrodes for the study of localised corrosion <i>in situ</i> by SECM
16:30	13	Schneider, M.	The anomaly of a thickness dependent relative permittivity in ultrathin anodic oxide films

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16.08.2012, Session 3

Time	Presentation number	Name	Title
08:30	Keynote speaker	Marcus, P.	Early Stages of Sulfidation of Silver Studied by <i>in situ</i> Scanning Tunneling Microscopy
09:00	15	Osial, M.	Two step preparation and characterization of cadmium telluride thin films
09:20	300	Barati Sedeh, G.	Probing of metal electrolyte interfaces on atomic scale by STM and polarization optics: First results on Cu(110)
09:25	16	Isa, I.	Electrochemical sensor for cobalt(II) by modified carbon paste electrode with zinc layered hydroxide-CPPA nanocomposite
09:45	17	Umeda, M.	Nafion thickness dependence of H ₂ O ₂ generation during O ₂ reduction at Nafion/Pt microelectrode: scanning electrochemical microscopy study
10:05	18	Schusser, S.	Improving degradation studies of biopolymers: A chip-based sensor concept for online degradation monitoring
10:25	Coffee Break		
10:50	19	Takenaga, S.	Real-time imaging of neuronal transmissions using label-free ACh image sensor
11:10	20	Stoica, A.-I.	Electrochemical determination of bioactive nitrogenous containing compounds using different working electrodes
11:30	21	Miyamoto, K.	Visualization of enzymatic reaction in a microfluidic channel using chemical imaging sensor
11:50	22	Safina, G.	Synthesis, characterization, modification and bioanalytical application of novel sensing platform based on densely packed vertically aligned carbon nanotubes
12:10	301	Ofek Almog, R.	Multilayered Metal/ Polypyrrole Electrodes for Biochip Applications
12:15	Lunch		

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16.08.2012, Session 4

Time	Presentation number	Name	Title
13:00	Keynote speaker	Homma, T.	Electrodeposition of Si nanopatterns from ionic liquid
13:30	24	Castro Ruiz, C. A.	A novel hybrid Activated Carbon/MnO ₂ based Supercapacitor in Protic Ionic Liquids
13:50	25	Sajjadi, S.	Enhancement of the electrochemical performance of prussian blue/carbon nanotubes composite via ionic liquid treatment
14:10	26	Inberg, A.	Silver Thin Films Deposited by Electroless Plating on Insulating Surfaces Activated by Gold Nanoparticles
14:30	400	Castro Ruiz, C. A.	Pseudocapacitive behavior of MnO ₂ thin films in non-aqueous electrolytes
14:35	401	Vicente, F.	EVA/Metal/Graphite and polypropylene/Metal/Graphite composite electrodes
14:40	402	Soares, T.	Thermodynamics of microstructures and a strategy for producing new surface materials by electroplating on heterogeneous structures
14:45	403	Greul, T.	Study of epitaxial growth of zinc on ferritic steel under industrial plating conditions
14:50	404	Walkner, S.	Electrochemical characterization of pH dependent zinc precipitates by using an automated setup
14:55	405	Schimo, G.	Development of ruthenium gradients on iron for eutectoid directional solidification
15:00	406	Grill, C.	Electrodeposition of Zn-Ni material libraries using a Hull-cell
15:05	Coffee break + Poster market		
15:45	27	Terryn, H.	Early Stage Nucleation of Electrochemical Nano Particles Using TEM-electrode grids and In Situ SAXS
16:05	28	Douhin, A.	Electroless plating of rhenium base alloys with the iron-group metals
16:25	29	Rafailovic, L.	Stability of nanograined dendritic structure subjected to thermal treatment
16:45	30	Weiser, M.	Pulse plating of platinum nanoparticles on aligned multi-walled carbon nanotubes
17:05	31	Kunimoto, M.	Theoretical Analysis of the Effect of Surface Defects on the Reaction of Hypophosphite Ion as a Reducing Agent for Electroless Deposition Process
17:25	32	Milenkovic, S.	3D pattern control of templatelessly grown monocrystalline Mo nanowire arrays
	Transfer to conference dinner		

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17.08.2012, Session 5

Time	Presentation number	Name	Title
09:00	Keynote speaker	Chen, Y.	Investigation of electrochemical oxide growth on zinc by spectroscopic ellipsometry: an example of in operando spectroscopy
09:30	34	Wagner, T.	Chemical imaging based on the light-addressable potentiometric sensor (LAPS) as an universal platform for electrochemical and material research
09:50			Coffee break
10:20	35	Vicente, F.	Identification of electroactive sites in Prussian Yellow films
10:40	36	Gasiorowski, J.	Electrochemical, chemical and photo-doping in low band gap polymer PBDTTT-c
11:00	37	Ferreira, V.	Synthesis of electroactive polymer/TNTs nanostructured films by a new dye-modified TNTs electro-polymerization approach
11:20			Adjourn