

25-28 September, Park Hotel Europe, Haskovo

Program

Wednesday, September 25 th 2024		
	13:00 - 14:00	Registration
	14:00 - 14:20	Opening
kova	14:20 – 14:50	Daria Vladikova
		Differential Impedance Analysis – a Tool for Structural and Parametric Identification – in Memory of Prof. Zdravko Stoynov.
Tsa		Invited lecture
<u>e</u>	14:50 – 15:20	Evelina Slavcheva, G. Borisov, B. Mladenova, I. Boshnakova
Chair: Vessela Tsakova		On the role of catalytic support for cost efficient hydrogen production via electrochemical water splitting.
	15:20 – 15:40	Asrar Ahmad Sheikh, Daria Vladikova
<u></u> ပ		A short review on Proton Conducting Ceramic Cells (PCCCs).
	15:40 – 16:00	Milena Krapchanska, A. Sheikh, B. Burdin, D. Vladikova
		Accelerated stress tests for SOFC.
	16:00 – 16:30	Coffee Break
	16:30 – 18:00	Poster session I
	18:00 – 19:00	Welcome Party
	19:30 -	Dinner

	Thursday, September 26 th 2024			
anov	9:00 - 09:40	Ilia Valov		
		Electrochemical-based artificial neurons and synapses - processes and materials design.		
	0.40 40.40	Plenary lecture		
oza	9:40 – 10:10	Martin Bojinov, Iva Betova, Vasil Karastoyanov Effect of water chemistry on corresion of internals in		
Chair: Svetlozar Ivanov		Effect of water chemistry on corrosion of internals in pressurized water reactors.		
air:		Invited lecture		
S	10:10 – 10:30	Mariana Ilieva		
		Electrochemical testing on intergranular corrosion susceptibility of austenitic stainless steels.		
	10:30 – 11:00	Coffee Break		
	44.00 44.00	Kanada Kanada a Tari da Balanda Alii Bala		
	11:00 – 11:20	Kamelia Kamburova , Tsetska Radeva, Nelly Boshkova, Nikolai Boshkov		
		Polysaccharide-based nanocarriers for entrapment of corrosion inhibitors.		
	11:20 – 11:40	Neli Boshkova, K. Kamburova, T. Radeva, N. Boshkov		
>		Corrosion behavior of zinc composite coatings with polysaccharide-based nanoparticles.		
alo	11:40 – 12:10	Maria Petrova, M. Georgieva, D. Lazarova, V. Chakarova		
: Ilia Valov		Electroless Deposition of Metal Coatings on Dielectric Materials.		
Chair:		Invited lecture		
ਠ	12:10 – 12:40	Boriana Tzaneva, B. Stefanov		
		Photoelectrochemical behavior of TiO ₂ functionalized with CuOx via photofixation.		
		Invited lecture		
	12:40 – 13:00	Jenia Georgieva, A. Banti, S. Sotiropoulos, R. Mechkova		
		Producing and characterization of PtCoP alloy coatings on powdered carbon support.		
	13:00 – 14:00	Lunch		

Boriana Tzaneva	14:00 – 14:30	Nina Dimcheva , K.Kamarska, M. Pimpilova, A.Peshkov and M. Shukri
		Electrochemical behavior of immobilized oxido-reductase enzymes in aqueous and mixed solvents.
		Invited lecture
	14:30 – 15:00	Miroslav Karabaliev , Bilyana Tacheva, Boyana Parvanova, Radostina Georgieva
		Electrode-supported wetting lipid films as a model system for studying drug-membrane interactions.
<u>::</u>	15:00 – 15:30	Vessela Tsakova
Chair:		Electrochemically produced conducting polymer layers for electroanalytical applications.
	15:30 – 15:50	Anelia Nakova, Chiydem Hyusein, Vessela Tsakova
		Spontaneous metal deposition on pre-reduced carbon screen printed electrodes.
	16:00 – 16:30	Coffee Break
	16:30 – 18:30	Poster session II
	19:30 –	Dinner

Friday, 27 th September 2024			
	9:00 - 09:30	Svetlozar Ivanov , Ivan Genov, Mario Kurniawan, Michael Witt	
		Electrodeposition Technologies for Energy Storage Application.	
/a		Key-note lecture	
ko	9:30 - 9:50	Toma Stankulov, B. Karamanova, A. Stoyanova	
Chair: Daria Vladikova		Application of carbon-based materials in energy storage systems.	
: Daria	9:50 – 10:20	Ivan Radev, M. Hesse, W. Philippi, O. Pasdag, T. Lange, V. Peinecke	
Chair		Optimization of electrochemical components for ion exchange membrane fuel cells and water electrolyzers.	
		Key-note lecture	
	10:20 - 10:50	Galin Borisov, N. Borisov, E. Slavcheva	
		Electrochemical hydrogen compressor – novel cell design, electrode structure and MEA performance.	

	11:00 – 11:30	Coffee Break		
Chair: Daria Vladikova	11:30 – 12:10	Plamen Atanassov		
		ARCHES: Alliance for Renewable Clean Hydrogen Energy		
		Systems.		
		Plenary Lecture		
arie	12:10 – 12:40	Mila Manolova, Ş. Sörgel		
.: 		Elaboration of electrodes via electrodeposition for green		
hai		electrochemical energy technologies.		
0		Key-note lecture		
	12:40 – 13:00	Metrohm Bulgaria - presentation		
	13:00 – 14:00	Lunch		
	14:00 – 14:30	Albena Aleksandrova, Maria Matrakova, Plamen Nikolov		
		Evaluation of Lead Silicon Substance as Additive to Lead		
		Batteries Positive Electrode.		
	14:30 – 14:50	Vassil Boiadjiev		
		Strategies for Surface Functionalization and their Application		
		for Sensor Development.		
		Young scientists session		
	14:50 – 15:10	Todor Madzharov, D. Vladikova		
\ \		Life cycle assessment of green ammonia production via		
che		renewable energy and a solid oxide electrolyzer – a case study for Bulgaria.		
Dimcheva	15:10 – 15:30	Reni Andreeva, D. Stoychev		
_	10.10	Investigation of the Influence of Cathodic Current Density and		
Ž		Electrochemical Deposition Time of Cerium Oxide Coatings		
Chair: Nina		Modified Carbon Screen Printing Electrodes.		
ਹ	15:30 – 15:50	Veselina Chakarova , M. Petrova, D. Lazarova, M. Monev Electroless Ni-P coatings from acidic solution.		
	16:00 – 16:30	Coffee Break		
	16:30 – 16:50	Marina Arnaudova, Rashko Rashkov		
		Electrochemical Preparation of Nickel-based Coatings on		
		Different Substrates.		
	16:50 – 17:10	Jordan Iliev, Dimitar Boychev, Galin Borisov, Evelina		
		Slavcheva Influence of transient processes on degradation of PEM		
		electrolyzers.		
	17:10 – 17:30	AQUACHIM - presentation		
	19:30 –	Gala Dinner		
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	Saturday, September 28 th 2024		
	9:00 - 09:30	Bogdan Rangelov	
۸a		Microscopy with Electrons: A Century of Innovations in Science and Technology.	
Petrova	9:30 – 10:00	Georgi Avdeev	
Maria Pe		Glow-discharge optical emission spectroscopy (GDEOS), method principles, and applications.	
Ě		Invited lecture	
Chair:	10:00 – 10:20	Maria Shipochka , I. Stambolova, D. Stoyanova, N. Boshkova, N. Boshkov	
		Capabilities of X-ray photoelectron spectroscopy for characterization of ZnO and TiO ₂ based materials.	
	10:20 – 10:40	Closing	

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