

Tuesday, 29th June 2021

09:00-09:15	Opening Address: Guido Grundmeier, University of Paderborn, Germany Fátima Montemor, Instituto Superior Técnico, Portugal Henrik Rudolph, Defence Academy, The Netherlands Yang Shen, Tsinghua University, China		
09:15-10:45	Session 1 – Surface Science of Catalysis, Electrocatalysis and Photocatalysis Session chair: <u>Maria Dinescu</u> , National Institute for Laser Plasma and Radiation Physics, Magurele, Romania	Session 2 – Biointerfaces Session chair: Monika Golda-Cepa, Agiellonian University in Krako, Poland	
	09:15-09:45 [INV.01] First-principles data-driven machine learning for high functional catalyst design Byungchan Han Yonsei University, Republic of Korea	09:15-09:45 [INV.02] The light way to polymer brushes <u>Han Zuilhof</u> Wageningen University, The Netherlands	
	09:45-10:15 [INV.03] How to effectively promote catalytic surfaces: the concept of tuning the electronic properties Andrzej Kotarba Jagiellonian University, Poland 10:15-10:45 [INV.05] New insights into surface active sites in photocatalysis: Single-site and single-atom catalysts Jennifer Strunk University of Rostock, Germany	09:45-10:15 [INV.04] Control of cell and bacterial surface interactions with complex colloidal crystals <u>Peter Kingshott</u> Swinburne University of Technology, Australia 10:15-10:45 [INV.06] Functionalization of zinc fine-tunes this resorbable material bioactivity for distinct biomedical applications <u>Marta M. Alves</u> Universidade de Lisboa, Portugal	
10:45-11:15	Refreshment Break		
11:15-12:15	Poster Session 1		
12:15-12:45	Lunch Break		
12:45-14:15	Session 3 – Electrochemistry and Corrosion Session chair: Jeff Terry, Illinois Institute of Technology, USA	Session 4 – Advances in Surface and Interface Characterization Session chair: Matthew Linford, Brigham Young University, USA	
	12:45-13:15 [INV.07] Unassisted Solar Hydrogen Production by PV- electrolysis: Artificial Leaf System <u>Kijung Yong</u> , Pohang University of Science and Technology, Republic of Korea	12:45-13:15 [INV.08] Undressing the myth of apparent constant binding energy of the C 1s peak from adventitious carbon in x-ray photoelectron spectroscopy <u>Grzegorz Greczynski</u> , Linköping University, Sweden	
	13:15-13:45 [INV.09] Time resolved analysis of electrolyte/materials interfaces by means of Odd Random Phase Electrochemical Impedance Spectroscopy Annick Hubin	13:15-13:45 [INV.10] Probing surfaces at the atomic scale <u>Ulrike Diebold,</u> TU Wien, Austria	

Vrije Universiteit Brussel, Belgium

13:45-14:15 [INV.11] Characterisation of chemically heterogeneous surfaces of Al alloys by 3D ToF-SIMS mapping Jolanta Światowska

PSL Research University, France

13:45-14:15 [INV.12] Growing and stabilizing metallic nanoparticles inside mesoporous oxide thin films Paula C. Angelomé National Atomic Energy Commission, Argentina

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09:00-10:00	Poster Session 2	
10:00-10:30	Refreshment break	
10:30-12:00	Session 5 – Energy storage Session chair: Debora Marani, AddiFab, Denmark	Session 6 – Materials Surfaces and Surface Technologies Session chair: Peter Schaaf, Ilmenau University of Technology Institute of Materials Science and Engineering, Germany
	10:30-11:00 [INV.13] 2D materials for micro-electrochemical energy storage devices <u>Zhong-Shuai Wu</u> Dalian Institute of Chemical Physics, China	10:30-11:00 [INV.14] On the role of stress in microstructure evolution during thermo-chemical surface engineering <u>Marcel A.J. Somers</u> Technical University of Denmark, Denmark
	11:00-11:30 [INV.15] Advanced Sodium ion Batteries Yan Yu University of Science and Technology of China, China	11:00-11:30 [INV.16] Material-structure-performance integrated laser- metal additive Dongdong Gu Nanjing University of Aeronautics and Astronautics, China
	11:30-12:00 [INV.17] Advanced high entropy materials for energy applications Jyh-Ming Ting National Cheng Kung University, Taiwan	11:30-12:00 [INV.18] Tapping into Charge-Dynamics of Ionic-Liquid Electrolytes within Energy Storage Devices with Operando X-Ray Photoelectron Spectroscopy <u>Sefik Suzer</u> Bilkent University, Turkey
12:00-12:30	Lunch Break	
12:30-14:00	Session 7 – Surface Nanotechnology and Devices Session chair: Andrew Teplyakov, University of Delaware, USA	Session 8 – Theoretical Surface Science Session chair: Herbert Urbassek, University of Kaiserslautern, Germany
	12:30-13:00 [INV.19] 2D graphene-like materials Harold J.W. Zandvliet University of Twente, The Netherlands	12:30-13:00 [INV.20] Identifying and understanding corrosion reactions: An ab initio approach J. Neugebauer Max-Planck-Institut für Eisenforschung, Germany
	13:00-13:30 [INV.21] Exfoliated and Bulk b-Gallium Oxide Electronic and Photonic Devices S.J. Pearton University of Florida, USA	13:00-13:30 [INV.22] How long is a piece of string? On length scales and approximations in the modelling of applied surface science phenomena <u>lan Shuttleworth</u> Nottingham Trent University, UK
	13:30-14:00 [INV.23] Multifunctional materials for emerging technologies Prof Federico Rosei Institut National de la Recherche Scientifique, Canada	13:30-14:00 [INV.24] Dissociative adsoprtion of methane on flat and stepped-like transition metal surfaces <u>H. Fabio Busnengo</u> CONICET and Universidad Nacional de Rosario, Argentina
14:00-14:15	Closing Remarks Guido Grundmeier, University of Paderborn, Germany Fátima Montemor, Instituto Superior Técnico, Portugal Henrik Rudolph, Defence Academy, The Netherlands Yang Shen, Tsinghua University, China	