

Program for EMN Berlin Meeting

July 17th to 18th, 2018

Mövenpick Hotel Berlin at Potsdamer Platz, Berlin, Germany

Monday, July 16th

Registration

Time: 14:00-17:30PM

Tuesday morning, July 17th

ROOM A

8:50-9:00AM

Opening

Session: General I

Chair: Peter Gaal

9:00-9:25AM

01: Sodium niobate based photocatalysts for CO₂ reduction and organic compound decomposition

Haifeng Shi
Jiangnan University, China

9:25-9:50AM

02: Materials for energy applications produced by pulsed laser ablation

Roberto Teghil
Universita della Basilicata,
Italy

9:50-10:15AM

03: Bidirectional and efficient conversion between terahertz-wave and infrared in MgO:LiNbO₃

Shin'ichiro Hayashi
National Institute of
Information and
Communications Technology,
Japan

10:10-10:35AM

Session Break

Session: General II

Chair: Haifeng Shi

10:35 -11:00AM

04: Graphene-Based Platinum Catalysts for PEM Fuel Cell Application

Dana Schonvogel
DLR Institute of Networked
Energy Systems, Germany

11:00-11:25AM

05: Self-assembly atomic stacking transport layer of two-dimensional layered titania for perovskite solar cells with extended UV stability

Chun-Wei Chen
National Taiwan University,
Taiwan

11:25-11:50AM

06: Cathode optimization in microtubular SOFC/SOEC systems

Alodia Orera
Instituto de Ciencia de
Materiales de Aragón, Spain

Lunch Break

Tuesday afternoon, July 17th

ROOM A

Session: Alloys and Compounds I

Chair: Günter Schmitt

14:00-14:25PM	07: From Renewable Energy to Hydrogen and Hydrocarbons	Andreas Züttel École polytechnique fédérale de Lausanne (EPFL), Switzerland
14:25-14:50PM	08: Magnetic behavior of colloidal nanoparticles of diverse iron oxide's phases modified by a cation-exchange approach	Andrea Falqui King Abdullah University for Science and Technology (KAUST), Saudi Arabia
14:50-15:15PM	09: Size dependence of solid-liquid interfacial energy quantified by molecular dynamics calculations	Nobufumi Ueshima Tohoku University, Japan
15:15-15:40PM	10: Performance of preformed Au/Cu nanoclusters deposited on MgO powders in catalytic reduction of 4-nitrophenol in solution	Rongsheng Cai Swansea University, UK
15:40-16:00PM	Session Break	
Session: Structure and Dynamics of Nanoscale Solids		Chair: Roberto Teghil
16:00-16:25PM	11: Disentanglement and control of coherent and incoherent surface deformations	Peter Gaal Universität Hamburg, Germany
16:25-16:50PM	12: Self-assembled colloidal crystals for passive thermal management	Juliana Jaramillo Fernandez CSIC and The Barcelona Institute of Science and Technology, Spain
16:50-17:15PM	13: Instrumentation and Implementation of a sub 10ps hard X-ray source at the European Synchrotron	Mathias Sander ID09 at ESRF – The European Synchrotron, France
17:30PM	Dinner Social	

Wednesday morning, July 18th

ROOM A

Session: General III

Chair: Haiping He

9:00-9:25AM	14: Magneto-absorption effect in Co coated ZnO nanowires	Hua Shu Hsu National Pingtung University, Taiwan
9:25-9:50AM	15: Enhanced Thermoelectric Properties in SrTiO ₃ through Interface Control via Reduced Graphene Oxide	Jamil Ur Rahman Korea Institute of Ceramic Engineering & Technology, Korea
9:50-10:15AM	16: Highly reliable non-volatile memory operated by energy harvesting and its business solutions	Hitoshi Saito Fujitsu Semiconductor Limited, Japan
10:10-10:35AM	Session Break	

Session: Alloys and Compounds II

Chair: Andreas Züttel

10:35 -11:00AM	17: A completely different evaluation of electrochemical noise for real time corrosion monitoring	Günter Schmitt Institute for Maintenance and Corrosion Protection Technologies gGmbH, Germany
11:00-11:25AM	18: Microstructure and fatigue behavior of precipitation hardening Cu-Ni-Si alloy	Masahiro Goto Oita University, Japan
11:25-11:50AM	19: Purely Antiferromagnetic Magnetoelectric Random Access Memory (AF-MERAM)	Tobias Kosub Helmholtz-Zentrum Dresden-Rossendorf, Germany
11:50AM-12:15PM	20: Study on the Method of Decreasing Stacking Fault Energy of Copper Alloys	Linghong Liu Central South University of Forestry and Technology, China

Lunch Break

Wednesday afternoon, July 18th

ROOM A

Session: General IV

Chair: Jamil Ur Rahman

14:00-14:25PM	21: Quantum processes via semiconductor exciton-polaritons with applications in quantum technologies	Emmanuel Paspalakis University of Patras, Greece
14:25-14:50PM	22: Fouling Phenomena in Reverse Electrodialysis in the Presence of Organic Matters	Jin-Soo Park Sangmyung University, Korea
14:50-15:15PM	23: Low threshold lasing from solution-processed lead halide perovskite films	Haiping He Zhejiang University, China
15:15-15:40PM	24: Ultra high response broad band optical detector from single semiconductor nanowires: Enabling effect of surface states	Arup Kumar Raychaudhuri S.N.Bose National Center for Basic Sciences, India
15:40-16:05PM	25: Metals decorated nanocomposite to assist charge transport in thin film organic solar cell	Geneve Tessema Mola University of KwaZulu-Natal, South Africa
16:05-17:00PM	Poster Session & Session Break	
17:30PM	Dinner Social	
Thursday, July 19th One-day excursion		

Poster Session

Wednesday afternoon, July 18th

16:05-17:00PM

P-01	A Dual-alternating-color Live Cell Imaging Materials Based on AIE-active Fluorescent Polymer Dots (Pdots)	Xiaolin Guan Northwest Normal University, China
P-02	Thallium based Elpasolite Scintillation Crystal and its Applications	S.H. Kim Cheongju University, Korea
P-03	Protein purification using surface activated magnetic materials	Willian Kopp Kopp Technologies, S ão Carlos, S ão Paulo, Brasil
P-04	Compositional effects on the low-temperature transport properties of non-stoichiometric Bi ₂ Te _x Se _y -based crystals	Yung-Kang Kuo National Dong Hwa University, Taiwan
P-05	Thermoelectric and Electronic Properties of Semimetallic Ru ₂ TaAl and Ru ₂ NbAl Heusler Compounds	Chin Shan Lue National Cheng Kung University, Taiwan
P-06	Electrode design for superior catalytic activity and enhanced stability	Y. J. Park Kyonggi University, Korea