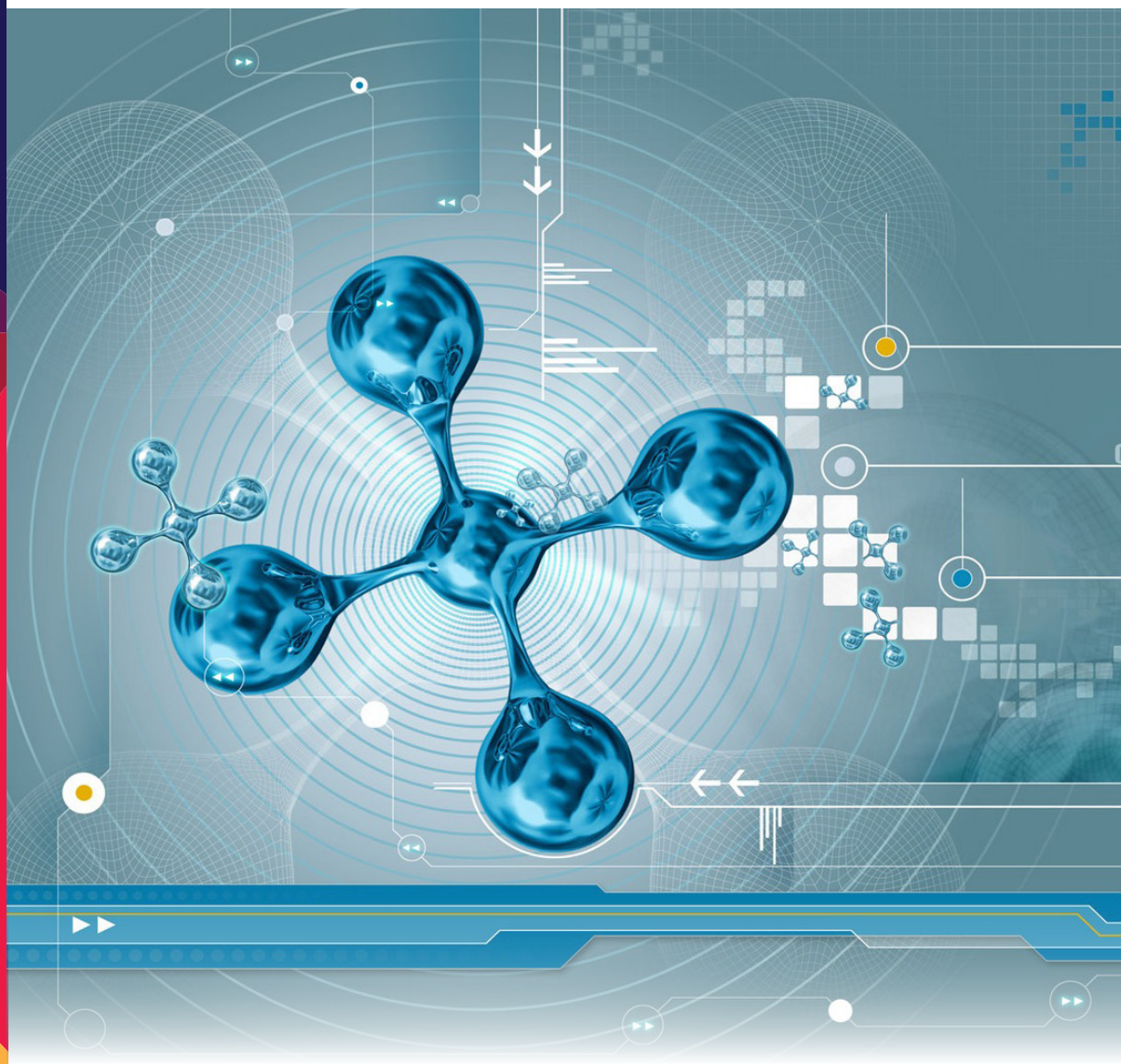
Scientific Program



21st International Conference on

Advanced Materials & Nanotechnology

September 04-06, 2018 | Zürich, Switzerland

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DAY-1

September 04, 2018

Meeting Hall: London B

08:00-8:30 Registrations

Opening Ceremony 08:30-08:55

KEYNOTE FORUM

08:55-09:00 **Introduction**

09:00-09:40 **Title: Hybrid conversion Solar System (HYCSOS)**
Dieter M Gruen, Dimerond Technologies, USA

09:40-10:20 **Title: Semiconductors and semiconductor-ionic heterostructure composites for next generation energy conversion technology**
Bin Zhu, Hubei University, China

SPECIAL SESSION

10:20-11:20 **Title: On the way to physically correct indentation analyses**
Gerd Kaupp, University of Oldenburg, Germany

Group Photo, Networking & Refreshments 11:20-11:40 @ Europa Foyer

Sessions: Advanced Materials Engineering | Emerging Areas of Materials Science | Environmental and Green Materials | Carbon Based Materials | Advanced Bio-Materials and Bio-devices | Energy Materials and Harvesting

Chair: Roger Amade, Universitat de Barcelona, Spain
Chair: Toshihiro Miyata, Kanazawa Institute of Technology, Japan

INTRODUCTION

11:40-12:00 **Title: Adsorbent materials for desulfurization processes under supercritical water conditions**
Florentina Maxim, Paul Scherrer Institut, Swizerland

12:00-12:20 **Title: Realization of conductive aluminum nitride epitaxial layer on silicon substrate by forming spontaneous nano size via-holes**
Noriko Kurose, Ritsumeikan University, Japan

12:20-12:40 **Title: A new laser induced local material engineering to convert from n-type to p-type nitride semiconductor to fabricate high power vertical AlGaN/GaN devices on Si substrate**
Yoshinobu Aoyagi, Ritsumeikan University, Japan

12:40-13:00 **Title: Restoration of perovskite phase in the top layer of thin BTO film by plasma treatment and annealing**
Ankita Ghatak, S.N. Bose National Centre For Basic Sciences, India

13:00-13:20 **Title: Hybrid perovskite halide for detection of environmental pollutant in atmosphere**
Barnali Ghosh (Saha), S.N. Bose National Centre For Basic Sciences, India

Lunch Break 13:20-14:00 @ La Place AB

14:00-14:20 **Title: Comparative analysis on monolithic DeNOx catalysts**
Giovanni Perillo, Wessex Institute of Technology, UK

14:20:14:40 **Title: Growth and electrochemical characterization of graphene nano walls and carbon nanotubes**
Roger Amade, Universitat de Barcelona, Spain

14:40-15:00 **Title: Fine-controlled sub-nano metal particles in a dendrimer reactor**
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

15:00-15:20 **Title: Thermoelectricity enhanced catalysis**
Tiva Sharifi, Rice University, USA

15:20-15:40 **Title: P-type Cu2O-based heterojunction solar cells fabricated with n-type ZnO thin film prepared by electrochemical deposition method**
Toshihiro Miyata, Kanazawa Institute of Technology, Japan

15:40-16:00 **Title: Growth control of vertical nano graphene network in plasma enhanced chemical vapor deposition and its emerging applications**
Keigo Takeda, Meijo University, Japan

16:00-16:20 **Title: In silico study of the self-assembly and gelation of sugar derivatives**
Dafna Knani, ORT Braude College, Israel

Networking & Refreshments 16:20-16:40 @ Europa Foyer

16:40-17:00 **Title: Design and development of nanomaterials using induction plasma system and its application**
Vignesh Nagarajan, Matrix Nano, India

YRF

YRF Judge: Gerd Kaupp, University of Oldenburg, Germany

17:00-17:15 **Title: Development of functionalized coating by sol-gel process on aluminium alloy**
Clément Genet, Université de Toulouse, France

17:15-17:30 **Title: Developing super hydrophobic copper/graphene nano-platelets coatings by plasma spraying**
Tahmineh Forati, Concordia University, Canada

17:30-17:45 **Title: Novel carbon nanomaterials coated with CuO particles via electroless plating for nonothermite applications**
Amir Elsaidy, Military Technical College, Egypt

17:45-18:00 **Title: Functionalized track-etched PVDF membrane electrodes for heavy metal analysis in water**
Uliana Pinaeva, Ecole Polytechnique, France

Panel Discussion

DAY-2

September 05, 2018

Meeting Hall: **London B**

KEYNOTE FORUM

09:00-09:40
Title: Driving flexible electronics by hybrid materials
Rodrigo Martins, New University of Lisbon, Portugal

09:40-10:20
Title: Switching iron-based superconductivity with spin current
Jhinhwan Lee, Korea Advanced Institute of Science and Technology, South Korea

Sessions: Advanced Functional Materials | Polymers Scicence and Engineering | Advanced Optical Materials | Advancement in Nanomaterials Science and Nanotechnology | Coating and Surface Engineering

Chair: Dieter M Gruen, Dimerond Technologies, USA
Co-Chair: Yutaka Oyama, Tohoku University, Japan

INTRODUCTION

10:20-10:40
Title: Relation between internal friction and fatigue
Wolfgang Gräfe, Germany

10:40-11:00
Title: Improvement of CFRP electrical conductivity by applying nano enabled products containing carbon nanotubes
Anna Boczkowska, Warsaw University of Technology, Poland

11:00-11:20
Title: Boron carbide-based ceramics for thermostructural application: Sintering by SPS and mechanical performances
Alexandre Maître, University of Limoges, France

Networking & Refreshments 11:20-11:40 @ Europa Foyer

11:40-12:00
Title: Synthesis of 2D layered semiconductor GaSe for the application of Terahertz non-destructive inspection
Yutaka Oyama, Tohoku University, Japan

12:00-12:20
Title: Solution deposition of Cu doped Co3O4 for electrooxidation of glucose
Mahabubur Chowdhury, Cape Peninsula University of Technology, South Africa

12:20-12:40
Title: Cu metal/Mn phthalocyanine organic sprinter faces atop Co with high spin polarization at room temperature
Wolfgang Weber, Université de Strasbourg, France

12:40-13:00
Title: Producing of aluminium matrix composite wire
Janos Dobranszky, Budapest University of Technology and Economics, Hungary

13:00-13:20 **Title: Chitosan asiaticoside nanoparticles synthesized from Centella asiatica for glioma therapy**
V Gayathri, Jawaharlal Nehru Tropical Botanic Garden and Research Institute, India

Lunch Break 13:20-14:00 @ La Place AB

14:00-14:20 **Title: Investigation on weldability behavior of chromium-free nickel filler with stainless steel AISI-304**
Nataraj J.R, R.V.College Of Engineering, India

14:20-14:40 **Title: Multiferroic Properties and Structural Characterizations in Mn and Cr Doped 0.9BiFeO3-0.1BaTiO3 Compositions**
Ricardo A. M Gotardo, Technological Federal University of Paraná, Brazil

14:40-15:00 **Title: Synthesis of Pt-WO3@W/GNs as a bifunctional electro-photo catalyst for catalyzing methanol oxidation and oxygen reduction reaction**
Shen Lin, Fujian Normal University, China

15:00-15:20 **Title: Low-cost printable hybrid hetero structures for energy harvesting and lighting**
Sylvain G. Cloutier, Ecole de Technologie Superieure, Canada

15:20-15:40 **Title: New generation of Colorcoat Prisma®**
Anna Lewandowska, Tata Steel UK Limited, United Kingdom

Networking & Refreshments 15:40-16:00 @ Europa Foyer

YRF

YRF Judge: Gerd Kaupp, University of Oldenburg, Germany

16:00-16:15 **Title: FEM analysis for burring process of large diameter SUS304 tube**
Junshi Ichikawa, Gunma University, Japan

16:15-16:30 **Title: Horizontal twin roll casting of aluminum alloy A7075**
Yuta Kashitani, Gunma University, Japan

16:30-16:45 **Title: Cold plastic forming of ABS plastic pipe: ABS plastic pipe**
Kentaro Tsunoda, Gunma University, Japan

16:45-17:00 **Title: Engineering protein interfaces yields ferritin disassembly and reassembly under benign experimental conditions**
Hai Chen, China Agricultural University, China

17:00-17:15 **Title: Dynamic analyses of damping alloy sleeves for boring**
Yuto Horigome, Gunma University, Japan

17:15-17:30 **Title: Infrared spectra of aluminum fluorocarbon polymer compositions to thermal signature of jet engine**
Amir Elsaidy, Military Technical College, Egypt

17:30-17:45 **Title: Thermoelectric properties of ZnO-based ceramics prepared by spark plasma sintering technique**
Radingoana Precious Manti, Université de Toulouse, France

POSTER PRESENTATIONS 17:45-18:30

Poster Judge: Anna Boczkowska, Warsaw University of Technology, Poland

AM-01 **Title: Fabrication of micro/nano-crystals of organic Dirac fermion system: nano-scale electro crystallization**
Takako Konoike, National Institute for Materials Science, Japan

AM-02 **Title: Synthesis by hydrogen reduction and characterization of CuNiCo with nanoparticles content**
Eduardo Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil

AM-03 **Title: One-pot synthesis of hybrid nano particles for catalytic applications**
Heeyeon Kim, Korea Institute of Energy Research, South Korea

AM-04 **Title: Chitosan delaying human fibroblast senescence through down regulation of TGF-β signaling pathway**
Tai-Horng Young, National Taiwan University, Taiwan

AM-05 **Title: Ag+ ion emission from a sharp tip of Ag+ ion conducting glass and Schottky-model analysis**
Yusuke Daiko, Nagoya Institute of Technology, Japan

AM-06 **Title: Effect of electrolyte aging on the morphology and mechanical properties of anodic titanium dioxide**
Junzhe Dong, The University of Auckland, New Zealand

AM-07 **Title: Magnetic carbon nano materials as matrices for the immobilization of cellulolytic enzymes**
Athena Papadopoulou, University of Ioannina, Greece

AM-08 **Title: Surface texturing with slanted silicon nano pillars to reduce its optical reflectivity**
Jun-hyun Kim, Ajou University, South Korea

AM-09 **Title: Simulation and development of counter weight casting**
Koushik Kosanam, R.V.College Of Engineering, India

AM-10 **Title: Study of fragmentation and ultrasonic flow impacts of several metal-based alloys**
Abdulrahman Sumayli, University of Hull, UK

AM-11 **Title: Effect of epoxidized cardanol on poly(vinyl chloride) as secondary plasticizer**
Jie Chen, Chinese Academy of Forestry, China

AM-12 **Title: Eu2+/Eu3+-activated nitride based red phosphors with narrow emission band for white light emitting diodes**
Jianyan Ding, Lanzhou University, China

AM-13 **Title: K4CaGe3O9:Mn2+, Yb3+: a novel orange-emitting long persistent luminescence phosphor with special nano structure**
Xufeng Zhou, Lanzhou University, China

AM-14 **Title: A composite of MnO2 coated with graphene by galvanostatic electrodeposition and its highly active and stable catalysis for oxygen reduction reaction**
Xiaofeng Zhang, Fujian Normal University, China

AM-15 **Title: Ni-based nanowire co-catalysts integrated with a Si photoanode for efficient water oxidation**
Meshal S Aljohani, King Abdulaziz City for Science and Technology, Saudi Arabia

AM-16 **Title: Facile synthesis of laminated porous WS2/C composite and its electrocatalysis for oxygen reduction reaction**
Zhongshui Li, Fujian Normal University, China

AM-17 **Title: Controlled antibiotic-loaded, drug-eluting implants for osteomyelitis**
Daniel Li, Northwestern University, USA

AM-18 **Title: Advances in 3D printing in biomaterials for orthopaedic applications**
Daniel Li, Northwestern University, USA

Panel Discussion

DAY-3

September 06, 2018

Meeting Hall: **B2B meetings**

Panel discussion followed by networking & lunch

Awards & Closing Ceremony

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