

International Conference on

NANOSCIENCE & MATERIALS WORLD

November 18-19, 2019 | Barcelona, Spain

Coalesce Research Group

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Hall: Meeting Hall 1

09:00 - 09:30 Registrations

09:30 - 09:50 Introduction

Renewed Keynote Forum & Eminent Plenary Forum

09:50 - 10:20 Title: 3D tomographic analysis and insitu liquid TEM studies of the dissolution of bioactive glass and phosphate nucleation

Dr Richard Langford, Cavendish Laboratory, University of Cambridge, UK

Group Photo (10:20 - 10:50)

10:50 - 11:20 Title: Improving thermochemical splitting performance of ceria based materials: novel preparation routes, doping and co - doping

Dr Gianluca Landi, Institute of Researches on Combustion – CNR, Naples, Italy

Session Chair: **Dr Daniel BELLET**, Grenoble Institute of Technology, France

Session Co-Chair: **Dr Pamela Norris**, University Of Virginia, USA

Moderator

Dr Juan L. Aragoes, Universidad Autonoma de Madrid, Spain

11:20 - 11:50 Title: Learning from nature: bioinspired strategies for the design of bio - functional materials

Dr Giuseppina Luciani, **DICMaPI, University of Naples Federico II, Naples, Italy**

11:50 - 12:20 Title: Spent Potlining, The Remaining Pollution Problem for Aluminium Production

Dr Harald A. Øye, Center of Excellence in Aluminium Smelting, Hatch Ltd, Norway

12:20 - 12:50 Title: PN - 3DGN - Plasma Nanoscience for 3D Graphene Network and Its Applications to Industry and Medicine

Dr Masaru Hori, Nagoya University, Nagoya, Japan

Lunch (12:50 - 13:50)

13:50 - 14:20 Title: Recent progresses in flexible transparent electrodes

Dr Daniel BELLET, Grenoble Institute of Technology, France

14:20 - 14:50 Title: Physical properties of graphite flakes and carbon fibres aluminium composite materials

Dr Jean - François SILVAIN, Institute of Chemistry of Condensed Matter of Bordeaux, ICMCB - CNRS, France

14:50 - 15:20 Title: Graphene on copper: interrelations and consequences on copper oxidation

Dr Alicia de Andrés, Instituto de Ciencia de Materiales de Madrid - CSIC, Spain

15:20 - 15:50 Title: Structure and Interaction of Drugs Nanocarriers in Complex Biological Media

Dr Domenico Lombardo **CNR - Consiglio Nazionale delle Ricerche**, Istituto Processi Chimico Fisici, Italy

15:50 - 16:20 Title: Can glass be a good luminescent material?

Dr Tomoko Akai, National Institute of Advanced Industrial Science and Technology(AIST), Japan

Scientific Program

International Conference on Nanoscience and Materials World

Monday
NOV 18, 2019

Hall: Meeting Hall 1

Networking & Refreshments (16:20 - 16:35)

- 16:35 - 17:05 Title: How to check coatings on microcomponents
Dr Hervé Piombini, CEA, DAM, Le Ripault, France
- 17:05 - 17:35 Title: Nanoscale synthesis and properties of III - V core - (multi)shell nanowires for nanophotonics and III Gen photovoltaics
Dr Paola Prete, Istituto per la Microelettronica e Microsistemi del CNR (IMM - CNR), Lecce, Italy
- 17:35 - 18:05 Title: The enthalpy of solution of the PMMA of solvents in case $T = 298.15$ K
Dr Myalkin Igor, Chemistry Research Institute of N.I.Lobachevsky State University

Oral Sessions

- 18:05 - 18:30 Title: Microstructure and Optical Properties of InAsSb Infrared Films
Dr Huiyong Deng, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China
- 18:30 - 18:55 Title: Ag/CNT metal matrix composites: Development of a controlled manufacturing process
Dr Maël PONTOREAU, Institut de Chimie de la Matière Condensée de Bordeaux, ICMCB - CNRS, France

Young Research Forum

- 18:55 - 19:10 Title: Manipulating "Hot Spots" from Nanometer to Angstrom: Towards Understanding Integrated Contributions of Molecule Number and Gap Size for Ultrasensitive SERS Detection
Mr Hui Lu, Advanced Photonics Center, Southeast University, China
- 19:10 - 19:25 Title: Hand - held portable colorimetric sensing device for quantitative detection of chromium in aqueous medium using silver nanoparticle as a probe
Mr Nitesh Kumar, Amity University, India

End of Day 1

Scientific Program

International Conference on Nanoscience and Materials World

Tuesday
NOV 19, 2019

Hall: Meeting Hall 1

Renewed Keynote Forum & Eminent Plenary Forum

09:30 - 10:00 Title: Utilizing Nanostructured Materials to Tune Phonon Transport
Dr Pamela Norris, University Of Virginia, USA

10:00 - 10:30 Title: Synthesis and characterization of copper matrix composite with 2D carbonized polydopamine as reinforcements
Dr Catherine Debiegge - Chouvy, CNRS, Sorbonne Université, France

Group Photo

Networking & Refreshments (10:30 - 10:45)

Session Chair: **Dr Pamela Norris, University Of Virginia, USA**

Session Co-Chair: **Dr Daniel BELLET, Grenoble Institute of Technology, France**

Moderator

Dr Juan L. Aragonés, Universidad Autonoma de Madrid, Spain

10:45 - 11:15 Title: Active rotating particles in complex environments
Dr Juan L. Aragonés, Universidad Autonoma de Madrid, 28049 Madrid, Spain

11:15 - 11:45 Title: Development of an ecological lubrication adapted to the shaping of metallic materials by grafting organic molecules
Dr Xavier ROIZARD, FEMTO - ST Institute – DMA Department, UBFC, CNRS UMR, 6174, Besançon, France

11:45 - 12:15 Title: Studies on Micro - and Nanostructured Materials at Analytical and Technological Research Center of Novosibirsk State University
Dr Andrey Arzhannikov, Novosibirsk State University, Russia

12:15 - 12:45 Title: Wet chemistry engineering of nanocrystals for heterogeneous catalysis
Dr Katerina Soulantica, Laboratoire de Physique et Chimie des Nano - Objets, Toulouse, FRANCE

Lunch (12:45 - 13:45)

13:45 - 14:15 Title: Size Matters – Nanotechnology in Removal of Emerging Pollutants from the Environment
Dr Bing Chen, Memorial University of Newfoundland, Canada

14:15 - 14:45 Title: Dynamic acousto - optoelectric manipulation of quantum light states in GaN/ InGaN nanowire quantum dots
Dr Snežana Lazić, Universidad Autónoma de Madrid, Spain

14:45 - 15:15 Title: Thermoelectric and Photoelectric Properties of the Layer - Structured Bi₂Te₃ Films
Dr Ning Dai, Chinese Academy of Sciences, China

15:15 - 15:45 Title: A Novel Microengineering - based Portable Platform for Rapid Real - time Antibiotic Susceptibility Testing
Dr Hardik J. Pandya, Indian Institute of Science, India

15:45 - 16:15 Title: New generation of individual nano - devices with anomalous electromagnetic transition through subwavelength nanoapertures
Dr Svetlana von Gratowski, Kotelnikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Moscow, Russia

16:15 - 16:45 Title: Magnetically Recoverable and Reusable Nanocomposites for Water Treatments
Dr Ping Y. Furlan, United States Merchant Marine Academy, New York, USA

Scientific Program

International Conference on Nanoscience and Materials World

Tuesday
NOV 19, 2019

Hall: Meeting Hall 1

16:45 - 17:15 Title: In-situ Oil Upgrading Through Steam Injection Technology-Assisted by NiO-PdO/
CeO₂± δ Nanocatalysts: Injection Method Analysis
Dr Oscar E. Medina, National University of Colombia, Colombia

Oral Sessions

17:15 - 17:40 Title: Preparation and characterization of biodegradable composite films based on
potato starch, gellan gum and macro/micro/nano garlic skin for use as food utensils
Dr José Jorge Chanona - Pérez, Instituto Politécnico Nacional, Mexico

17:40 - 18:05 Title: Hydrocarbons Removal from Water using TiO₂ and ZnO Nanoparticles Modified
MWCNTs
Dr Thamer Adnan Abdullah, University of Pannonia, Hungary

18:05 - 18:30 Title: Magnetic field assisted photocatalytic activity of Nd modified BiFeO₃
nanoparticles
Dr Dhanalakshmi Radhalayam, University of Santiago, Chile

Young Research Forum

18:30 - 18:45 Title: Adsorption of organophosphates on porous heterostructure mica and
organosilicates
Ms D. Alejandra Fonseca, Universidad Pedagógica y Tecnológica de Colombia,
Colombia

18:45 - 19:00 Title: Molecular Dynamics Study of the Aluminum Oxidation Process
Mrs Ensieh Yousefi, Department of Materials Engineering, KU Leuven, Belgium

Poster Presentations (19:00-19:20)

NSMW - P1 Title: In - vitro effects of sol - gel synthesized zinc oxide nanoparticles against
Dermacentor nuttalli
Dr Erdene Norov, National University of Mongolia, Mongolia

NSMW - P2 Title: Isolation and characterization of cellulose nanocrystals from garlic skin for films
reinforcement uses
Mr Josué David Hernández Varela, Instituto Politécnico Nacional, Mexico

Panel Discussion - Awards & Closing Ceremony

End of Day 2