

# Scientific Program

## 3<sup>rd</sup> International Webinar on Material Science and Nanotechnology

Thursday  
September 16, 2021

### Day 1 - September 16, 2021 - British Time

13:00 - 13:10 Introduction

#### Oral Presentations

13:10 - 13:35 Improvement of photocatalytic performance of ZnO thin films  
**Mouna Khiari**, Université de Reims Champagne-Ardenne, France

13:35 - 14:00 Methylhydrazinium Lead Halides: Novel Class of Noncentrosymmetric Three- and Two-dimensional Perovskites for Optoelectronic Applications  
**M. Maćzka**, Polish Academy of Sciences, Poland

14:20 - 14:25 Improved adsorption capabilities of sawdust of *Baillonella toxisperma* (Moabi) and *Entandrophragma cylindricum* (Sapelli) by non-thermal plasma: characterizations  
**H.Kameni**, University of Lille, France

14:25 - 14:50 Natural vein graphite as a promising candidate for the anode application  
**H.M.H.D.K. Naranpanawa**, National Institute of Fundamental Studies, Sri Lanka

#### Keynote Presentation

14:50 - 15:50 Creating materials with a desired refraction coefficient  
**Alexander G.Ramm**, Kansas State University, USA

#### Lunch Break (15:50 - 16.30)

16:30 - 16:55 Study of surface properties of molten Tin, exposed to air up to 600 K  
**Dimitar Lyutov Plamen V**, Sofia University, Bulgaria

16:55 - 17:20 Upscaling geoenvironmental analysis, thematic mapping and nanotechnological characterization combined in bituminous mudstone outcrops studies, Eastern Cordillera, Colombian Northern Andes: application in detailed zoning of susceptibility to mass movements—MM ('land suscept. mapping', LSM) of Vélez, Santander  
**Germán A. Reyes-Mendoza**, Universidad Industrial de Santander and GEA+ci3, Colombia

#### Poster Presentations

17:20 - 17:35 The preparation of hyaluronic acid nanoparticles as potential drug delivery  
**Nikola Mannov**, University of Pardubice, Czech Republic

17:35 - 17:50 E-BABE- Hydroxyapatite nanoparticles functionalized with ESIPT dye  
**Tais Fagundes**, Universidade Federal do Rio Grande do Sul, Brazil

17:50 - 18:05 Evaluation of gold nanoparticles for the detection of vanillin in ice cream and flavored milk beverages  
**E. C. Breña-Cruz**, Universidad Autónoma de Querétaro, Mexico

18:05 - 18:20 Detection of xylazine in alcoholic beverages using NiAl laminar double hydroxides  
**A. Salcedo-Huitrón**, Universidad Autónoma de Querétaro, Mexico

End of Day 1

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Friday  
September 17, 2021

Day 2 - September 17, 2021 - British Time

### Oral Presentations

11:00 - 11:25 Microwave-Assisted Synthesis of Coal-Derived Few-Layer Graphene via Catalytic Graphitization Process  
**Faridul Islam**, The University of Newcastle, Australia

### Keynote Presentation

11:25 - 11:55 Direct Ceramic Fabrication by Lithographic Additive Manufacturing  
**Soshu Kirihara**, Osaka University, Japan

### Oral Presentations

11:55 - 12:20 Study of the effect of carbon and silicon on the activation energy of carbides  
**A.Gokhman**, COMTES FHT, Czech Republic

12:20 - 12:45 Vortex Domain wall dynamics and pinning in constricted magnetic nanowire for storage memory devices  
**Mohammed Al Bahri**, A'Sharqiyah University, Oman

12:45 - 13:10 Entropy of Thinking about the existence of the Universe  
**Abdullah Yusuf Imam**, National University Of Bangladesh

13:10 - 13:35 Synthesis of Iron oxide nano particles to reduce LDL Cholesterol.  
**Nisar Ali Othi**, Mehran University of Engineering and Technology, Pakistan

### Poster Presentations

13:35 - 13:50 Molecularly Imprinted Polymer (MIPs) and Magnetic Molecularly Imprinted  
**Maria Guć**, Adam Mickiewicz University in Poznan, Poland

13:50 - 14:05 The cytotoxicity of TiO<sub>2</sub>-based nanomaterials in macrophages  
**Denisa Smela**, University of Pardubice, Czech Republic

14:05 - 14:20 Technology for utilization of manganese mining-enrichment waste  
**D.G. Gogoli**, Tbilisi State University, Georgia

14:20 - 14:35 Functionalised nanocarriers for the modulation of glycosylation  
**Shubham Parashar**, Central University of Rajasthan, India

### Oral Presentations

14:35 - 15:00 Electrochemical performance of silver-graphite composites prepared from surface-functionalized vein graphite  
**V.M.R. Swarnamali**, Uva Wellassa University of Sri Lanka, Sri Lanka

15:00 - 15:25 Shape Memory Phenomena and Scientific Basis of Reversibility in Shape Memory Alloys  
**Osman Adiguzel**, Firat University, Turkey

End of Day 2