

# Scientific Program

2<sup>nd</sup> International Webinar on

## Graphene and Semiconductors

**Monday**  
**November 08, 2021**

Day 1 - November 08, 2021

11:00 - 11:10 Introduction

### Oral Presentations

11:10 - 11:35 Integrating graphene aerogel morphology for supporting the phase change material (PCM) with a high form stability  
**Chengbin Yu**, Seoul National University, South Korea

### Keynote Presentations

11:35 - 12:05 Advances in Composites of TiO<sub>2</sub> Nanostructures and Graphene in view of Photocatalytic Applications  
**Anca Mazare**, Friedrich Alexander University of Erlangen Nuremberg, Germany

12:05 - 12:35 Covalent Immobilization of Polyaniline Doped with Ag<sup>+</sup> or Cu<sup>2+</sup> on Carbon Nanotubes for Ethylene Chemical Sensing  
**Guy Mechrez**, Agricultural Research Organization (ARO), Volcani Institute, Israel

### Oral Presentations

12:35 - 13:00 A selective laser sintering setup for in situ optical and X-ray imaging of laser sintering of polymer particles  
**Ruth Cardinaels**, Eindhoven University of Technology, The Netherlands

### Lunch (13:00 - 13:30)

13:30 - 13:55 Synthesis, Characterization and 3D Printing of PLA/PCL/Fe<sub>3</sub>O<sub>4</sub> Magnetic Composites  
**Galarreta-Rodriguez**, Universidad Pública de Navarra, Spain

13:55 - 14:20 Two dimensional organic materials for energy and the environment  
**Aristeidis Bakandritsos**, Palacký University, Czech Republic

14:20 - 14:45 Ceramic pieces printed using Binder Jetting: Characterization of materials  
**Cristina Fabuel Bartual**, ITC-AICE, Spain

14:45 - 15:10 Effect of the amino-silane mineral waste treatment on the mechanical resistance of PA12-mineral composites processed by SLS printing  
**Daniel Barros**, University of Minho, Portugal

15:10 - 15:35 1-Butanol production from the ethanol producing industry wastes using Cu-Ni-Mn-nano-composite  
**Delia Teresa Sponza**, Dokuz Eylül University, Turkey

15:35 - 16:00 4D printing of PLA-based biomaterial scaffolds for bone tissue engineering  
**Conrad Mastalerz**, University of Reims Champagne-Ardenne, France

16:00 - 16:25 Electrode Grade Activated Carbon Derived from Lignin  
**Jin Tak**, InnoTech Alberta, Canada

16:25 - 16:50 Optimized removal of Bisphenol A onto chemically activated carbons derive from safou seeds (*Dacryodes edulis*): non-linear regression analysis of kinetics and adsorption isotherms  
**Cyrille Donlifack Atemkeng**, University of Dschang, Cameroon

16:50 - 17:15 Shades of Gray: Controlling the Voxelized Attenuation of 3D Printed Physical Phantoms for Computed Tomography with a Single Material  
**Huayu Tong**, Duke University, USA

End of Day 1

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**Tuesday**  
**November 09, 2021**

Day 2 - November 09, 2021

### Oral Presentations

11:00 - 11:25 Synthesis of Few-layer graphene from coal under Microwave radiation  
**Faridul Islam**, The University of Newcastle, Australia

### Keynote Presentation

11:25 - 11:55 Unknown properties of Carbon Quantum Dots  
**Marek Wiśniewski**, Nicolaus Copernicus University in Toruń, Poland

11:55 - 12:25 Rapid solid state volumetric additive manufacturing for any environment  
**Wei Min Huang**, Nanyang technological University, Singapore

12:25 - 12:55 3D Printing in Pharmaceutical Sector: An Overview  
**Usama Ahmad**, Integral University, India

Lunch (12:55 - 13:30)

### Oral Presentations

13:30 - 13:55 3D Printing Technology of Fiber Reinforced Geopolymers Composites  
**Kinga Korniejeko**, Cracow University of Technology, Poland

13:55 - 14:20 The optimisation of chromatographic conditions for the determination of acceptor-donor properties of graphene oxide and reduced graphene oxide  
**Henryk Grajek**, Military University of Technology, Poland

14:20 - 14:45 Methane production from Carbondioxide in polluted areas using Graphen doped Ni/NiO nanocomposite via photocatalysis  
**Rukiye Öztekin**, Dokuz Eylül University, Turkey

14:45 - 15:10 Carbon nanotube and Graphene-CNT hybrids: Field emission and other applications  
**Santanu Ghosh**, Indian Institute of Technology, India

15:10 - 15:35 Optimization of the nonlinear optical properties in lens-shaped core/shell under combined effects of temperature, pressure, transverse electric and magnetic fields  
**Mohsen Choubani**, University of Monastir, Tunisia

15:35 - 16:00 Development of Advanced (Nano)composite Materials by Using Advanced Manufacturing Approaches for Biomedical Applications  
**Ramona (Haniyeh) Fayazfar**, Ontario Tech University, Canada

16:00 - 16:25 Two-Dimensional Silicon Carbide: Bridging Theory and Experiment  
**Sakineh Chabi**, University of New Mexico, USA

End of Day 2