

Scientific Program

International Webinar on

Diamond, Carbon and Advanced Energy Materials

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 TiO₂ 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⁺ or Cu²⁺ 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/Fe₃O₄ 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 Carbon nanotube and Graphene-CNT hybrids: Field emission and other applications
Santanu Ghosh, Indian Institute of Technology, India

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 Korniejko, 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 4D printing of PLA-based biomaterial scaffolds for bone tissue engineering
Conrad Mastalerz, University of Reims Champagne-Ardenne, France

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