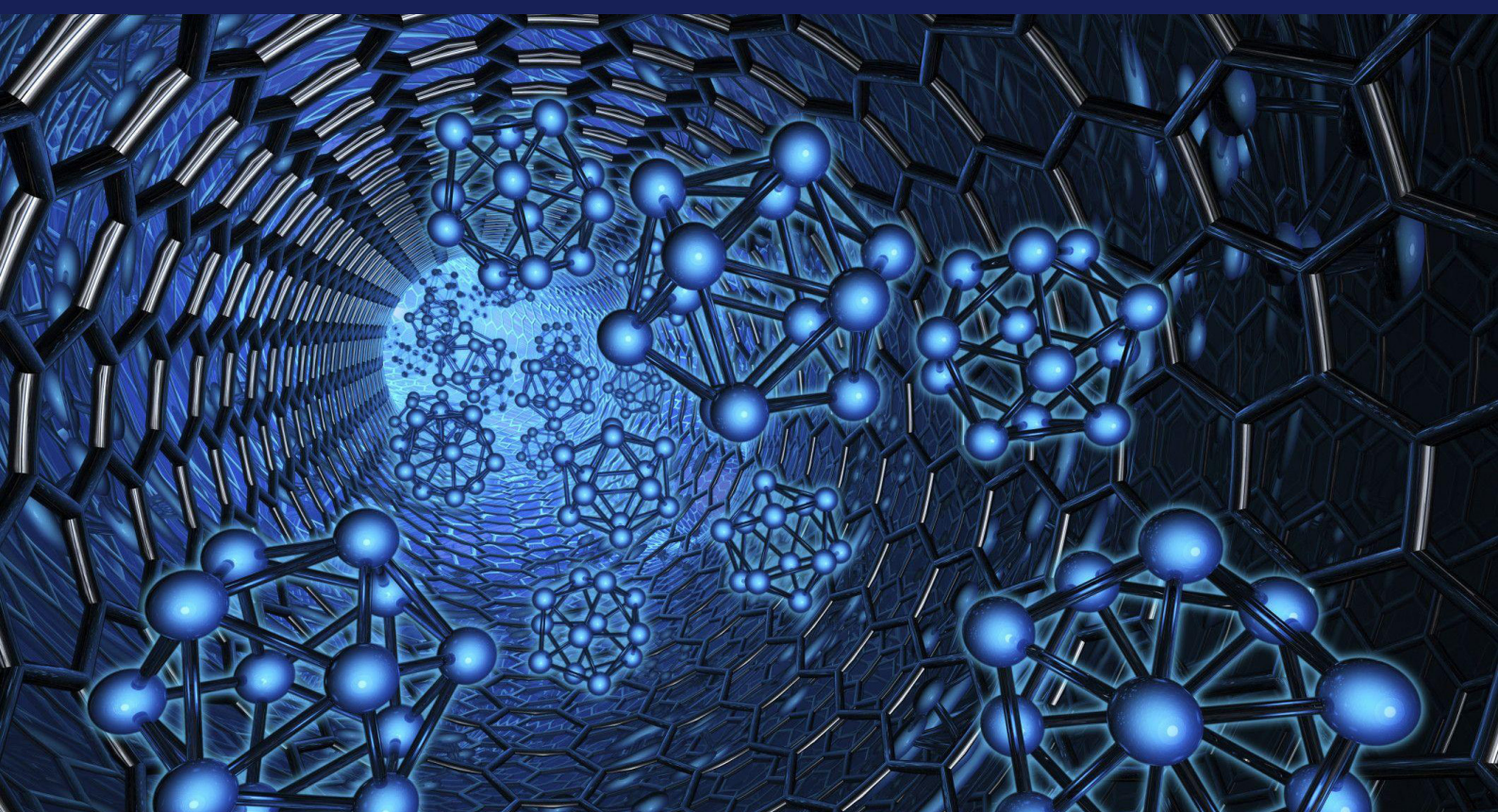


4<sup>th</sup> International Webinar on

# **NANOTECHNOLOGY & NANOMATERIALS**

July 05-06, 2021 | 11:00 - 18:00 (British Time)



**Coalesce Research Group**

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# Scientific Program

## 4<sup>th</sup> International Webinar on Nanotechnology & Nanomaterials

Monday  
July 05, 2021

### Day 1 - July 05, 2021 - British Time

11.00 - 11.10 Introduction

#### Keynote Presentations

11.10 - 11.40 Parametrization of lattices, a solution for customized Orthotic applications  
**David Alarco**, Solo Lattices Company Ltd., Ireland

11.40 - 12.10 Xenos: from the Promise of Dawn (Silicene and Germanene) to Rising Stars (Stannene and Plumbene)  
**G Le Lay**, Aix-Marseille University, France

#### Oral Presentations

12.10 - 12.35 Tissue engineering and three-dimensional printing in periodontal regeneration: A literature review  
**Simon Raveau**, University of Nantes, France

12.35 - 13.00 A novel method for thermal characterization of superlattice sample  
**M. Pawlak**, Nicolaus Copernicus University, Poland

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

13.00 - 13.25 The potential of employing portable 3D Scanners and 3D Printers as *in-situ* measurements systems: Case studies on archaeological artefacts and materials  
**Antreas Kantaros**, University of West Attica, Greece

13.25 - 13.50 The True Amphipathic Nature of Pristine Graphene Flakes  
**K. Z. Milowska**, University of Cambridge, Cambridge, UK

13.50 - 14.15 Many-body van Der Waals interactions beyond the dipole approximation  
**Dario Massa**, University of Padua, Italy

14.15 - 14.40 Formation of a 3D-framework made of graphene-like carbon  
**Alexey V. Zaikovskii**, Kutateladze Institute of Thermophysics SBAS, Russia

14.40 - 15.05 Direct 3D-printing of phosphate glass by Fused Deposition Modeling  
**Reda Mohammed Zaki**, CNRS, University of Bordeaux, ICMCB, France

15.05 - 15.30 Fabrication of high impact polystyrene/reduced graphene oxide (HIPS/rGO) filament for fused filament fabrication (FFF) 3D printing  
**Marta Sieradzka**, University of Bielsko-Biala, Poland

15.30 - 15.55 Multi Multi -layer transition in a spin 1/2 Ashkin Teller model with RKKY interaction  
**Amel Benmansour**, University of Tlemcen, Algeria

15.55 - 16.20 Photoactivated Polymeric Bilayer Actuators Fabricated via 3-D Printing  
**Hai-Feng Ji**, Drexel University, USA

16.20 - 16.45 New Piezoresistive Composite Material Based on Multilayer Graphene/Nanographite in Glassy Matrice for Pressure Sensor Applications  
**O. Correa**, Unicamp, Brazil

#### Poster Presentation

16.45 - 17.00 Combined theoretical and experimental study of the adsorption of toxic chromate anionic species by tetrahexylphosphonium modified beidellite  
**P. Škorňa**, Slovak Academy of Sciences, Slovakia

#### End of Day 1 Sessions



# Scientific Program

## 4<sup>th</sup> International Webinar on Nanotechnology & Nanomaterials

Tuesday  
July 06, 2021

Day 2 - July 06, 2021 - British Time

### Keynote Presentation

- 10.00 - 10.30 Green Nanostructured Nickel Oxide : Material For Energy Conversion Devices  
**Ranjana Jha**, Netaji Subhas University of Technology, India
- 10.30 - 11.00 Self-assembly of semiconductor quantum dots with porphyrin molecules: Energy relaxation processes and biomedical applications  
**Eduard Zenkevich**, Belarussian National Technical University, Belarus

### Oral Presentations

- 11.00 - 11.25 Customized Pelvic Implant Design Based on Symmetrical Analysis and 3D Printing  
**Yuan Chai**, The University of Sydney, Australia
- 11.25 - 11.50 Two-Dimensional Materials Based Photocatalysts for Light-Induced H<sub>2</sub> Production  
**Jingrun Ran**, University of Adelaide, Australia
- 11.50 - 12.15 Strain effect on the edge states of HfSe<sub>2</sub> nanoribbons  
**Hsin-Mei Ho**, National Central University, Taiwan
- 12.15 - 12.40 Prototype of a Lower Cost 3D Printer by Using Arduino Mega 2560 Controller without a Bed Temperature  
**Mahros Darsin**, University of Jember, Indonesia
- 12.40 - 13.05 Toward the optimization of 3D printing process using mechanical, thermal, and rheological characteristics of 3D-printed parts  
**Hamid Reza Vanaei**, Arts et Metiers Institute of Technology, France
- 13.05 - 13.30 Effect of SrHA Nanoparticle Concentration on the Mechanical Performance and Bioactivity of 3D Printed PEEK Composites  
**Faisal Manzoor**, Ulster University, United Kingdom

### Lunch (13:30 - 14:00)

- 14.00 - 14.25 Exploiting Nanoparticles to Enhance Essential Oil Production in Mentha Species under Changing Environment  
**M. Naeem**, Aligarh Muslim University, India
- 14.25 - 14.50 Geometrical confinement of Vortex Domain wall in constricted magnetic nanowire for storage memory devices  
**Mohammed Al Bahri**, A'Sharqiyah University, Oman
- 14.50 - 15.15 Process optimization in 3D printing of semi-crystalline polymers using simulation  
**Anto Antony Samy**, Ulster University, United Kingdom
- 15.15 - 15.40 Preparation, characterization and *in vitro* antibacterial property of Ciprofloxacin-loaded nanostructured lipid carrier for treatment of Bacillus subtilis infection  
**Petra Nnamani**, University of Nigeria, Nigeria
- 15:40 - 16:05 CVD Graphene Growth on Liquid Substrates  
**Maryam A. Saeed**, Kuwait Institute for Scientific Research (KISR), Kuwait

End of Day 2 Sessions