



3rd WEBINAR ON

Materials Science and Nanotechnology

March 22-23, 2021

Coalesce Research Group
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Scientific Program

3rd Webinar on

Material Science & Nanotechnology

Monday
March 22, 2021

Day 1 - March 22, 2021

10:00 - 10:20 Introduction

Keynote Presentations

10:20 - 11:00 3D Printing of biodegradable polymers
Dumitru Nedelcu, Technical University Gheorghe Asachi Iasi, Romania

11:00 - 11:40 Implementation of a fully digital protocol for complex dental treatment using 3D printing
Alexander Ryakhovsky, National Medical Research Center of Dentistry and Maxillo-Facial Surgery, Russia

Eye Relaxation (11:40 - 11:45)

Oral Presentations

11:45 - 12:15 Nano science and technology: An assessment from the vantage point of philosophy of science
Keekok Lee, University of Manchester, UK

12:15 - 12:45 Treatment of hydrophilic 2,6 dichlorobenzamide and hydrophobic barbitol using a nano RO-GO membrane
Delia Teresa Sponza, Nefise Erdinçmer, Dokuz Eylül University, Turkey

12:45 - 13:15 Nanoscience and nanotechnology education
R Abu Much, The Academic Arab College for Education in Haifa, Israel

Lunch (13:15 - 13:45)

13:45 - 14:15 Role of additive manufacturing in remanufacturing of aero engine parts
Anand Kumar, Indian Institute of Technology, India

14:15 - 14:45 Investigation of mode II fracture behavior of CNT doped PAN nanofiber reinforced carbon fiber composites
Safa POLAT, Karabuk University, Turkey

14:45 - 15:15 Controlling the nucleation and growth of atomic layers in nanowires
Carina B. Maliakkal, Lund University, Sweden

15:15 - 15:45 Design of silicone gripper for stomach minimal invasive surgery simulation under endoscopic diagnosis
Shu Wang, King's College London, United Kingdom

Eye Relaxation (15:45 - 15:50)

15:50 - 16:20 Reliability design of mechanical systems subject to repetitive stresses
Seongwoo Woo, Addis Ababa Science & Technology University, Ethiopia

16:20 - 16:50 Production of transparent/fluorescent glass from industrial pre-burnt rice husk silica
Chiara Valsecchi, Federal University of Pampa, Brazil

16:50 - 17:20 Fabrication of new core-shell structured high-k oxides nanocomposites for storage energy and dielectric applications
S. Merad, University of Tours, France

17:20 - 17:50 Effects of Au/Ag/Fe nanoparticles composition on changes of blood cell count in DMH-induced colon adenocarcinoma
Shepet Iryna M, Ternopil National Medical University, Ukraine

17:50 - 18:20 Monte Carlo study of magnetic thin films of the Ashkin Teller model at the special point under the crystal field effect
Amel Benmansour, University of Tlemcen, Algeria

18:20 - 18:50 Ameliorations of nano-particles of different clay species in water treatment applications
Suresh Aluvihara, University of Peradeniya, Sri Lanka

End of Day 1 Sessions

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Tuesday
March 23, 2021

Day 2 - March 23, 2021

Keynote Presentation

- 10:00 - 10:40 III-V nanowires and nanostructures grown by Hydride Vapor Phase Epitaxy (HVPE)
Yamina André, Université Clermont Auvergne, France
- 10:40 - 11:20 Thermal memory and nanoscale basis of shape reversibility in shape memory alloys
Osman Adiguzel, Firat University, Turkey

Poster Presentation

- 11:20 - 11:30 Evaluation of cytotoxicity of silica nanoparticles to human lung epithelial cells
Seon Hee Kim, University of Science & Technology, South Korea
- 11:30 - 11:40 3D Printing of polydiacetylene photocomposite materials
Yang-Yang Xu, Anhui Normal University, China

Eye Relaxation (11:40 - 11:45)

- 11:45 - 11:55 Simulation of mixing and polymerization in 3D-printed tubular reactors including SMX mixing elements
Sören Hapke, University of Hamburg, Germany
- 11:55 - 12:05 A pathway to organic 3D printed piezoelectric devices
Achidi Frick, Vrije Universiteit Amsterdam, Netherlands
- 12:05 - 12:15 Elaboration and characterization of novel homo-interpenetrating polymer network based on poly (isobornyl acrylate)
Ahlam Benkhelifa, University Abou Bekr Belkaid, Algeria
- 12:15 - 12:25 Design, synthesis and characterization of hybrid coatings suitable for geopolymeric-based supports for building sector and cultural heritage applications
Fausta Giacobello, Institute for the Study of Nanostructured Materials, ISMN-CNR, Italy
- 12:25 - 12:35 Design and development of pillararene-based smart polymers
Giulia Rando, University of Messina, Italy
- 12:35 - 12:45 Functional gold nanoparticles: Synthesis, characterization and biological activity evaluation
Ileana Ielo, Institute for the Study of Nanostructured Materials, ISMN-CNR, Italy
- 12:45 - 12:55 Development of eco-friendly hydrophobic coatings for marine antifouling applications: Synthesis and physical-mechanical characterization
Silvia Sfameni, University of Messina, Italy

Lunch (12:55 - 13:30)

Oral Presentations

- 13:30 - 14:00 Additive manufacturing of a 100% mineral geopolymer composite
Julien Archez, ENPC, France
- 14:00 - 14:30 Additive manufacturing of heterogeneous catalytic structured reactors
Franco Otaola, Université de Technologie de Compiègne, France
- 14:30 - 15:00 Hafnium Oxide nanoparticles synthesis for the detection of atherothrombosis through X-ray imaging
Yasmine Sebti, LVTS, INSERM, France

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15:00 - 15:30 Removal of dissolved organic carbons and some microorganisms from a drinking water treatment plant by a novel Ag doped thin film polyamide RO membrane
Delia Teresa Sponza, Nefise Erdiçmer, Dokuz Eylül University, Turkey

Eye Relaxation (15:30 - 15:35)

15:35 - 16:05 A breakthrough additive manufacturing technology for displacement of FDM
Vyacheslav Shulunov, Russian Academy of Science, Russia

16:05 - 16:35 Physical and rheological properties of biodegradable poly (1,4-butylene succinate) extended with 1,6-diisocyanatohexane (PBSu)/Alfa fiber composites
Wafaa Mahi, Abou Bekr Belkaid University, Algeria

Keynote Presentation

16:35 - 17:15 Design and development of smart and innovative multifunctional materials for sustainable applications
Maria Rosaria PLUTINO, ISMN-CNR, Italy

17:15 - 17:50 3D Printing an alternative for electrospinning in fabricating drug combination medical devices?
Mallesh Kurakula, University of Memphis, USA

End of Day 2 Sessions

March	
2 nd International Webinar on Environmental Sustainability and Climate Change	March 29-30, 2021
2nd International Webinar on Recycling & Waste Management	March 29-30, 2021
2nd Online International Conference On Nutrition and Nutraceuticals	March 29-30, 2021
April	
Global Webinar on Gynecology & Obstetrics	April 09-10, 2021
2nd Webinar on Addiction & Psychology	April 26-27, 2021
2nd Webinar on Plant Science & Genomics	April 29-30, 2021
3rd Webinar on Agriculture & Food Research	April 29-30, 2021
Webinar on Cannabis, Hemp & its Research	April 29-30, 2021
May	
Webinar on Ageing Research and Gerontology Studies	May 03-04, 2021
2nd International Webinar on Vaccines and Immunology	May 10-11, 2021
Webinar on Pediatrics and Neonatology	May 20-21, 2021
Webinar on Rheumatology and Orthopedics	May 24-25, 2021
Webinar on Surgery and Anaesthesia	May 24-25, 2021
Webinar on Acupuncture & Chinese Medicine	May 24-25, 2021
Webinar on Traditional & Alternative Medicine	May 24-25, 2021
Webinar on Nursing and Health Care	May 27-28, 2021
June	
Webinar on Nutrition Research	June 07-08, 2021
World Congress on Materials Science & Nanotechnology	June 14-15, 2021
International Conference on Polymer Science and Technology	June 14-15, 2021
World Conference and Expo on Vision Science and Optometry	June 14-15, 2021
International Webinar on Pediatrics and Neonatology	June 14-15, 2021
World Congress on Neurology	June 17-18, 2021
International Conference on Biopolymers and Bioplastics	June 21-22, 2021
International Conference on Renewable Energy and Sustainable Technologies	June 21-22, 2021
International Conference on Occupational Health and Public Safety	June 21-22, 2021
Global Webinar on Chemistry and Applied Sciences	June 24-25, 2021
Webinar on Biocatalysis & Green Chemistry	June 24-25, 2021

3rd Webinar on Catalysis, Chemical Engineering & Technology	June24-25, 2021
2nd E-Meeting on Advanced Catalysis (AdCat-2021)	June24-25, 2021
International Webinar on Artificial Intelligence and Robotics	June24-25, 2021
July	
4 th Webinar on Nanotechnology & Nanomaterials	July 05-06, 2021
4 th Webinar on 3D Printing & Additive Manufacturing	July 05-06, 2021
Online International Conference on Diabetes and Endocrinology	July 19-20, 2021
Online International Conference on Atmospheric and Earth Sciences	July 19-20, 2021
Webinar on Laser, Optics & Photonics	July 26-27, 2021
International Webinar on Quantum Physics and Nuclear Technology	July 26-27, 2021
International Webinar on Artificial Intelligence and Robotics	June24-25, 2021

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