

**Materials Science and  
Nanotechnology-2021**

**LIVE CONFERENCE ON ZOOM**



**Webinar on**

# **MATERIALS SCIENCE & NANOTECHNOLOGY**



**September 17-18, 2021 | 11:00 - 21:00 (IST)**



**INOVINE MEETINGS LLC**

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# Conference Sessions & Tracks

- **Materials Science and Engineering**
- **Nanotechnology-Basics Applications**
- **Smart Materials and Technologies**
- **Electronic, Optical and Magnetic Materials**
- **Metals, Mining, Metallurgy and Materials**
- **Bio-Materials & Bio-devices**
- **Biosensor and Bio-electronic Materials**
- **Ceramics & Composites materials**
- **Nanoscale materials and Structural materials**
- **Pharmaceutical & Industrial Coating Materials**
- **Carbon & Graphene Based Materials**
- **Computational Materials Science**
- **Nano Robotics and Advanced 2D Materials**
- **Nano Technology in Clinical and Translational Research**
- **Polymer Science and Nano Engineering**
- **Nanobiotechnology and Nanosafety**
- **Emerging Areas of Materials Science**
- **Nanoelectronics and Nanophotonics**
- **Nano Physics and Nano Chemistry**
- **Carbon and Graphene Nanostructures and its Applications**
- **Nanofabrication, Nanoprocessing and Nanomanufacturing**
- **Pharmaceutical Nanotechnology**
- **Biological and Medical Nanodevices and Biosensors**

# Scientific Program

Day -1 September 17, 2021 IST (Indian Time)

11:00-11:10

Opening Ceremony

## Presentations

**Keynote**

**Title: Stereolithographic Additive Manufacturing of Ceramic Components with Nanoparticles Paste Materials**

11:10-11:40

Soshu Kirihara, Joining and Welding Research Institute, Osaka University, Japan

**Keynote**

**Title: Preparation and characterization of arrowroot (Maranta arundinacea) fibre reinforced biopolymer composites**

11:40-12:10

S.M. Sapuan, Universiti Putra Malaysia, Malaysia

**Keynote**

**Title: Multiferroics and High Refractive Index Glasses by Levitation Technique**

12:10-12:40

Vijaya Kumar, University of Mysore, India

12:40-12:50

**Health Break**

12:50-13:15

**Title: High heat resistant enamel frits for application in aero-engine parts**

Sumana Ghosh, CSIR, India

13:15-13:40

**Title: Nano Pt-ZnO as DMMP Sensor**

Anil Ramdas Bari, Kavayitri Bahinabai Chaudhari North Maharashtra University, India

13:40-14:05

**Title: Chalcogenide glasses as smart material for Material Science Engineering applications**

Manish Dev Sharma, Panjab University, India

**Keynote**

**Title: The Role of Clay Hybrid Materials in Treatment of Industrial Wastewater**

14:05-14:35

Tanushree Choudhury, School of Advanced Sciences, VIT, India

**Keynote**

**Title: Textile applications of carbon nano tube**

14:35-15:05

N.Gokarneshan, SNS Rajalakshmi College of arts and science, India

**Keynote**

**Title: GaAs quantum dot: a promising solid state quantum emitter grown by droplet etching – a novel growth technique**

15:05-15:35

Santanu Manna, Johannes Kepler University Linz, Austria

		<b>Health Break</b>
<b>15:35-15:45</b>	<b>Keynote</b>	<b>Title: Laser processing of ceramic-based thermoelectric materials</b>
<b>15:45-16:15</b>		N.M. Ferreira, Universidade de Aveiro, Portugal
<b>16:15-16:40</b>		<b>Title: Pseudo-monocrystalline properties and deceptive interplanar spacings in analytical electron microscopy techniques of cylindrical metal nanowires</b>
		Carlos Luna, Universidad Autónoma de Nuevo Leon, Mexico
<b>16:40-17:05</b>		<b>Title: A Novel Green Synthetized Silver Nanoparticle act as a Nozyme and Potentially Useful against Oxidative Stress: Challenges and Opportunities</b>
		Soumendra Darbar, Jadavpur University, India
<b>17:05-17:30</b>		<b>Title: Effect of carbon nano materials (CNTs) and processing variation of polyacrylonitrile (PAN) carbon fibre on the thermo mechanical behavior of short carbon fibre reinforced polymer composites.</b>
		Vijay K Srivastava, Indian Institute of Technology, India
<b>17:30-17:55</b>		<b>Title: Sonochemical Coatings: From the laboratory to the market</b>
		Aharon Gedanken, Bar-Ilan University, Israel
<b>17:55-18:00</b>	<b>Health Break</b>	
<b>18:00-18:30</b>	<b>Keynote</b>	<b>Title: NanoHUB.org – always “on” - New Paradigms in Global Scientific Knowledge Transfer, Publishing, and Assessment</b>
		Gerhard Klimeck, Purdue University, USA
<b>18:30-19:00</b>	<b>Keynote</b>	<b>Title: Spin-dependent tunneling magnetoresistance in strontium ferromolybdate-strontium molybdate core-shell structures</b>
		Gunnar Suchaneck, TU Dresden, Germany
<b>19:00-19:30</b>	<b>Keynote</b>	<b>Title: Low-dimensionality 2D Materials and their Hybrids for Enhanced Light-Matter Interactions towards Optoelectronic Devices and Solar Cells</b>
		Anupama B. Kaul, University of North Texas, USA
<b>19:30-19:55</b>	<b>Poster</b>	<b>Title: Theoretical study of water at titanium dioxide surface in the presence of defects</b>
		Bouzidi Fatima, Hassiba Ben Bouali University of Chlef, Algeria
<b>19:55-20:20</b>	<b>Poster</b>	<b>Title: Gold nanocrystals synthesized in reverse micelles</b>
		Raquel Mendoza-Resendez, Universidad Autonoma de Nuevo Leon (UANL), Mexico
<b>20:20-20:40</b>	<b>Video Presentation</b>	<b>Title: TBA</b>
		ST-Mitchell, USA