

# GSEMMM2021

Global Summit and Expo on Magnetism and Magnetic Materials

September 20-22, 2021

 Virtual

**FINAL PROGRAM**



**The Scientistt**

Bangalore, India

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## Virtual Presentations

September 20-21, 2021 CEST (EUROPE) GMT+1

Starts@ London Time Zone

### MONDAY SEPTEMBER 20, 2021

09:00-09:20	<b>Introduction</b>	
09:20-09:50	Title: Ultra Low Power AI Processor Based on CMOS/MTJ Hybrid Technology <b>Tetsuo Endoh</b> , Tohoku University, Japan	<b>K</b>
09:50-10:20	Title: Gate-Tunable Rashba-Edelstein Effect in a Graphene/2H-TaS <sub>2</sub> van der Waals Heterostructure at Room Temperature <b>Sungjae Cho</b> , Korea Advanced Institute of Science and Technology, South Korea	<b>K</b>
10:20-11:00	Title: Magnetic Microwires for Sensor Applications <b>Arkady Zhukov</b> , UPV/ EHU in San Sebastian, Spain	<b>P</b>
11:00-11:40	Title: Magnetism of Spins-1/2 and Fractional Topology of Bloch Bands <b>LE HUR Karyn</b> , CPHT, Ecole Polytechnique and CNRS, France	<b>P</b>
11:40-12:20	Title: Recent Insights in Magnetic Nanoparticles-based Biomedical Applications: Combined Cancer Therapy, Regenerative Approaches, and Long-Term Biological Fate. <b>Claire Wilhelm</b> , Paris Diderot University, France	<b>P</b>
12:20-13:00	Title: Controlling Two-Dimensional Magnetism with Light <b>Phan Manh-Huong</b> , University of South Florida, USA	<b>P</b>
13:00-14:00	<b>Lunch Break</b>	
14:00-14:40	Title: Magnetic Objects for Describing Magnetization Processes in Steel <b>Thomas W. Krause</b> , Royal Military College of Canada, Canada	<b>P</b>
14:40-15:05	Title: New Sustainable Processing of RE-based Magnetic Materials <b>Spomenka Kobe</b> , Jožef Stefan Institute, Slovenia	<b>I</b>
15:05-15:30	Title: Barocaloric Effect in a Novel Spin-Crossover Compound <b>Michela Romanini</b> , University of Barcelona, Spain	<b>I</b>

### TUESDAY SEPTEMBER 21, 2021

09:30-09:55	Title: Strain-Mediated Voltage Tuning of Physical Properties in Multiferroic Structures <b>Ming Zheng</b> , China University of Mining and Technology, China	<b>I</b>
09:55-10:20	Title: Scalable Synthesis and Magnetic Sensing of Topological Insulators <b>Zhen Zhang</b> , Xi'an Jiaotong University, China	<b>I</b>
10:20-10:45	Title: Defects Mediated Ferromagnetism in Magnetic (Mn and Co) and Non-Magnetic (Cu and Ag) Impurities Doped ZnO: A Joint Theoretical and Experimental Study <b>Nasir Ali</b> , Sungkyunkwan University, South Korea	<b>I</b>
10:45-11:10	Title: Development of Magnetic Hyperthermia Application: Current Status and Future Directions <b>Loi Tonthat</b> , Tohoku University, Japan	<b>I</b>
11:10-11:35	Title: Magnetization Reversal in Perpendicular Magnetic Anisotropy Thin Films <b>Rachid Belhi</b> , University of Tunis ElManar, Tunisia	<b>I</b>
11:35-12:00	Title: Controlling the Energetics and Frustration-Behavior of Dipolar Coupled Nanomagnets in Artificial Spin Ice Systems <b>Pintu Das</b> , Indian Institute of Technology Delhi, India	<b>I</b>
12:00-12:25	Title: Prospective of Growth/Fabrication, Characterization, and Applications of Hard and Soft Ferromagnetic Materials for Electrical Machines <b>Tej Nath Lamichhane</b> , Oak Ridge National Laboratory, USA	<b>I</b>

<b>12:25-12:50</b>	<p>Title: Magnet Optical Effects, Einstein Ring and Ferro Fluids</p> <p><b>Alberto Tufaile</b>, University of São Paulo, Brazil</p>	
<b>12:50-13:15</b>	<p>Title: Magneto-Raman Effect in Bulk and Thin Layers of van der Waals Magnet CrI<sub>3</sub></p> <p><b>Rui He</b>, Texas Tech University, USA</p>	
<b>13:15-13:40</b>	<p>Title: Observation of Room Temperature Ferromagnetism Enhanced Photocatalytic, and Antibacterial Properties of MgFe<sub>2</sub>O<sub>4</sub>@TiO<sub>2</sub> Core Shell Nanoparticles</p> <p><b>Rehana P Ummer</b>, Cochin University of Science and Technology, India</p>	
<b>13:40-14:05</b>	<p>Title: Perpendicular Magnetized GMR Spin Valves on Large-Area Flexible Substrates</p> <p><b>Gaspare Varvaro</b>, Institute of Structure of Matter–CNR, Italy</p>	



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2<sup>nd</sup> Global Summit and Expo on Magnetism and Magnetic Materials

**June 13-15, 2022 | Copenhagen, Denmark**