

WEBINAR Program



V-Mat2021

3rd Edition of Materials Science & Nanoscience Webinar

September 17 | 07:00 - 15:00 GMT

September 18 | 07:00 - 16:15 GMT

ŧ	September 17, 2021	GMT 07:00 – 15:00
07:00 – 07:10	Introduction	
₽	Keynote Sessions -	1
Webinar Speakers Time Zone Time Zone	e	
07:10 - 07:45 16:10 - 16:4	5 Title: Atomic structure of bulk metal synchrotron-radiation X-ray di microscopy and ab-initio mole	iffraction, scanning tunneling
	Dmitri Louzguine, Tohoku Univers	sity, Japan.
07:45 - 08:20 08:45 - 09:2	20 Title: MULTICOMPONENT HIGH-	ENTROPY CANTOR ALLOYS
	Brian Cantor, University of Oxford	& Brunel University, UK.
08:20 - 08:55 11:20 - 11:5	55 Title: Sonochemical Coatings: From	the laboratory to the market
	Aharon Gedanken, Bar-Ilan Un	iversity, Israel.
08:55 - 09:30 11:55 - 12:3	Title: Metal-free and flexible Li-ion tissues	batteries based on CNT
	Yair Ein-Eli, Technion- Israel Institu	te of Technology, Israel.
09:30 - 10:05 10:30 - 11:0	5 Title: Advanced Printed Semiconduc Stable Photovoltaics	ctors for Highly Efficient and
	Tayebeh Ameri, University of Ed	inburgh, UK.

10:05 - 10:10

Day 01

Networking and Refreshments Break

Invited Sessions

10:10 - 10:30 18:10 - 18:30	Title: Fabrication of Polymer Optical Device Combined with Selective Visible-Light Transmission and Zero-Birefringence Yunming Wang , Huazhong University of Science and Technology, China.
10:30 - 10:50 11:30 - 11:50	Title: Development of textured artificial joints Jufan Zhang , University College Dublin, Ireland.
10:50 - 11:10 18:50 - 19:10	Title: Translating Silk from Textiles to Functional Materials Chengchen Guo , Westlake University, China.
11:10 - 11:30 19:10 - 19:30	Title: 2D electrolytes: theory, synthesis, and characterization Mariana C. F. Costa, National University of Singapore, Singapore.
11:30 - 11:50 13:30 - 13:50	Title: Point Defects in two-dimensional Indium Selenide as Tunable Photon Sources: a Theoretical Study Francesca Risplendi , Politecnico of Torino, Italy.

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Keynote Sessions - 2

11:50 - 12:25 19:50 - 20:25

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Title: Single-crystalline electron transport layer for enhanced carrier dynamic in perovskite solar cells

Akrajas Ali Umar, Universiti Kebangsaan Malaysia, Malaysia.

12:25 - 13:00 15:25 - 16:00	Title: Synthetic Route Towards Pure Phase of WS2 & MoS2 Inorganic Nanotubes and their Unusual Properties
	Alla Zak, Holon Institute of Technology, Israel.
13:00 - 13:35 15:00 - 15:35	Title: The use of nanomaterials as atmospheric fume-removing additive for bitumen Paolino Caputo, University of Calabria, Italy.
13:35 – 14:10 08:35 – 09:10	Title: Advanced Materials for a Carbon-Neutral Future Mohammad Asadi , Illinois Institute of Technology, USA.
14:10 - 14:45 07:10 - 07:45	Title: Advanced Radiation Nanodetector For Nuclear Energy Application You Qiang , University of Idaho, USA.

Poster Presentation



Title: First principles study of optical and electronic properties of hybrid perovskites for use of solar cells

Edgar Paredes Sotelo, University of Sonora, Mexico.

End of Day One

	September 18, 2021	GMT 07:00 – 16:15
07:00 – 07:10 Webinar Speake	Introduction	
Time Zone Time Z	one	
ŧ	Keynote Sessions -	1
07:10 - 07:45 15:10 -	- 15:45 Title: Application of Conducti Electronics	ng Polymers for Flexible
	Jianyong Ouyang , Nat	ional University of Singapore, Singapore.
07:45 - 08:20 16:45	– 17:20 Title: Stability and Catalytic F Nanoparticles based on	Properties of Multinary Alloy Real System Structure Models
	Michihisa Koyama , Shi	nshu University / Kyoto University, Japan.
08:20 - 08:55 16:20	 – 16:55 Title: Optical Signatures of M Excitons in Transition I 	omentum-Forbidden Dark Metal Dichalcogenide Monolayers
	Shun-Jen Cheng, Nation	al Yang Ming Chiao Tung University, Taiwan.
08:55 - 09:30 18:55		tion of II-VI semiconductors on xial growth with large lattice
	Wen Lei, The University of V	Vestern Australia, Australia.
09:30 - 10:05 17:30	- 18:05 Title: High-Performance Pota Hsing-Yu Tuan, National	-

10:10 - 10:45 18:10 - 18:45	Title: A Multiphysics Modelling of Magnetic-Sensitive Hydrogels
	Hua Li, Nanyang Technological University, Singapore.
10:45 - 11:20 18:45 - 19:20	Title: An adaptive artificial neural network-based deep generative design method for architectured materials Wenjing Ye , Hong Kong University of Science and Technology, Hong Kong.
11:20 – 11:55 19:20 – 19:55	Title: Interlayer superlubricity between two-dimensional materials Tianbao Ma , Tsinghua University, China.
11:55 - 12:30 19:55 - 20:30	Title: Magnetic And Conducting Thermoplastic Rubber Based Nanocomposites For Microwave Absorption Application Sahrim Ahmad , Universiti Kebangsaan Malaysia, Malaysia.

Invited Sessions

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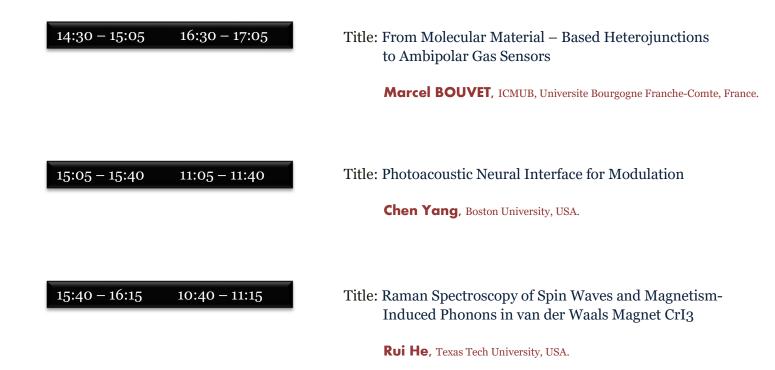
12:30 - 12:50 14:30 - 14:50	Title: Barocaloric Effect in a Novel Spin-Crossover Compound
	Michela Romanini, Universitat Politècnica de Catalunya, Spain.
12:50 - 13:10 18:20 - 18:40	Title: Visco-Poroelastic Iontronic Polymer Pumps for Low-powered Wearable Electrochromic Devices Vipin Amoli , Rajiv Gandhi Institute of Petroleum Technology, India.
13:10 - 13:30 15:10 - 15:30	Title: Detection of Biomarkers Involved in Neurodegenerative Diseases and Study of Tumour Microenvironment (TME) Employing Innovative Smart Sensing Tools Giuliana Grasso , Institute of Nanotechnology (NANOTEC), Italian

 Institute of Nanotechnology (NANOTEC), Ita National Research Council (CNR), Italy.

13:30 - 13:50	16:30 – 16:50	Title: Improving the Fatigue of Newly Designed Mechanical System Subjected to Repeated Impact Loading
		Seongwoo Woo , Addis Ababa Science & Technology University, Ethiopia.
13:50 - 14:10	15:50 - 16:10	Title: WS2 nanostructures as thermo-mechanical reinforcement of composite materials for advanced applications
		Danica Bajić, Military Technical Institute, Serbia.
14:10 - 14:30	09:10 - 09:30	Title: Graphene Quantum Dots mitigates paraquat-induced oxidative stress in neuronal cells
		Jyoti Ahlawat, University of Texas at El Paso, USA.

Keynote Sessions - 2

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Closing Ceremony