

CONMAT2022

2nd Global Summit on Condensed Matter Physics

GSEMSN2022

2nd Global Summit and Expo on Materials Science and Nanoscience

October 17-19, 2022

Dubai, UAE



The Scientistt

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Joint Conference on Material	Science and Condensed Matter Physics
October 17-19, 2022 Dubai,	UAE

October 17	-19, 2022 Dubai, OAE		
08:45-09:00	Registrations		
09:00-09:20	Opening Ceremony		
Conference Chairs:	Neil Cameron, Monash University, Australia Mukunda P. Das, The Australian National University, Australia		
Day-1 Mon	day OCTOBER 17, 2022		
	Plenary Session		
09:20-10:00	Title: Convergence of Disciplines for Materials Science without Borders with Transformative Impact on Global Energy and Healthcare Paras N Prasad , University at Buffalo, USA		
10:00-10:40	Title: Porous Polymers as Scaffolds for Tissue Engineering and 3D Cell Culture Neil Cameron , Monash University, Australia	P	
	Keynote Session		
10:40-11:10	Title: Magnesium Alloys as the Third Generation of Human Implants Lucien Petrova Veleva , Center for Investigation and Advanced Study, Mexico	K	
11:10-11:20	Coffee Break		
	Invited Session		
11:20-11:45	Title: Integrating Sustainable Practices into Organic Electronics Research Assunta Marrocchi , University of Perugia, Italy	ı	
11:45-12:10	Title: A Network Breakdown Model for a Tumor Microenvironment Panos Argyrakis, University of Thessaloniki, Greece	I	
12:10-12:35	Title: Use of Nano-Materials and New Generation Chemicals in Heavy-Oil and Bitumen Recovery to Improve Efficiency and Reduce GHG Emission Tayfun Babadagli , University of Alberta, Canada	- 1	
12:35-13:00	Title: Point Defects in AlN and GaN for Quantum Information Processing: An ab initio Insight Kamil Czelej , University of Warsaw, Poland	I	
13:00-13:10	Group Photo		
13:10-14:00	Lunch Break		
14:00-14:25	Title: Development of VO2 -based Composite Thin Films; Related Apps Frédéric Dumas-Bouchiat , University of Limoges, France	ı	
14:25-14:50	Title: Study of High Power Impulse Magnetron Sputtering (HiPIMS): Application to Cr Deposition Thin Film. Ahmed Rhallabi , Nantes University, France	I	
14:50-15:15	Title: Photophysical Study of new Small Molecules Presenting Thermal Activated Delayed Fluorescence (TADF) and Room Temperature Phosphorescence (RTP) for OLEDs Devices Antonio Maggiore , National Research Council, Italy	ı	
15:15-15:40	Title: Laser-assisted Generation of Ultra-small Iron Nanoparticles Rafael Omar Torres Mendieta , Institute for Nanomaterials, Advanced Technologies and Innovation, Czech Republic	- 1	

15:40-16:05	Title: Inhibition Impact of Cement Composite Admixtures on Fungi Activity Miriama Hološová , Technical University of Košice, Slovak Republic	ı	
16:05-16:15	Coffee Break		
16:15-16:40	Title: Photoinduced Insulator-to-Metal Transition of Excitonic Insulators Satoshi Ejima, University of Greifswald, Germany		
16:40-17:05	Title : Heterostructural Interface Atomic Structure Prediction from First Principles Methods and Application to CdTe Solar Cells Abhishek Sharan , Khalifa University, UAE	1	
17:05-17:30	Title: Exotic Magnetic Flux Patterns in Superconductors Between Type I and II Alexei Vagov , Research University HSE, Russia	ı	
17:30-17:55	Title: Novel Ag0(NP)/TiO2 Supported Bentonite Thin Film in the Efficient Degradation of Bisphenol a using Visible Light Diwakar Tiwari, Mizoram University, India	1	
17:55-18:20	Title: Phase Transitions and Critical Phenomena in Non-Equilibrium Steady States from Holography Masataka Matsumoto , Shanghai University, China	1	
18:20-18:45	Title: Nagative Capacitance MOSFET with a Multiferroic Gate Dielectric Tingting Jia , Chinese Academy of Sciences, China	-1	
18:45-19:10	Title: Hexagonal Warping Induced Non-Linear Hall Effect in Topological Insulator Bi2Te3 Abdullah Yar, Kohat University of Science and Technology, Kohat, Pakistan	ı	
19:10-19:35	Title: Strong Optical Nonlinearity of Multifunctional Hybrid Perovskite Layers Anna Zawadzka, Nicolaus Copernicus University, Poland	1	
	Poster Session		
P-001	Title: Environmental Impacts of Wooden Panels with Various Thermal Insular Adriana Eštoková , Technical University of Košice, Slovak Republic	tions	
P-002	Title: Possibilities of Critical Raw Materials Recovery by Extracellular Precipitation Alena Luptáková , Slovak Academic of Science, Slovak Republic		
P-003	Title: Increasing the Recovery Rate of Reservoir Sediments as a waste throutheir Re-use in Construction Industry Natalia Junakova , Technical University of Košice, Slovak Republic	ıgh	
P-004	P-004 Title: Vanadium Dioxide Thin Films for Thermal Micro-Systems Frédéric Dumas-Bouchiat, University of Limoges, France		
P-005	Title: Structural Studies of NdBaCo2O5.75 Himanshu Pant, Indian Institute of Technology, India		
	End of Day-1		
Day-2 Tue	esday OCTOBER 18, 2022		
Virtual Pre	sentations Time zone: Beijing, China (GMT+8)		
10:00-10:40	Title: Graphene Coatings for Remarkable Corrosion Resistance Raman Singh, Monash University, Australia	Р	

10:40-11:20	Title: High Temperature Superconductivity under High Pressure in Hydrides Mukunda Das , Australian National University, Australia	Р
11:20-12:00	Title: Spectroscopic Manifestations of Electron Fractionalization In The Pseudo Gap State of Cuprates Atsushi Fujimori , University of Tokyo, Japan	P
12:00-12:40	Title: Hydrodynamic Effects in Electron Fluids on Spintronics Sadamichi Maekawa , RIKEN Center for Emergent Matter Science, Japan	Р
12:40-13:05	Title: Development of Magnetic Tunnel Junctions for Magnetic Sensor Applications Takafumi Nakano, Tohoku University, Japan	ı
13:05-13:30	Title: Topological Nature of Dirac Electrons in Organic Conductors Masao Ogata , University of Tokyo, Japan	1
13:30-13:55	Title: Electronic Correlations of CeSb under the Devil's Staircase Transition Kenta Kuroda , Hiroshima University, Japan	ı
13:55-14:20	Title: Symmetry-Protected Exceptional Rings in the System Described by the Generalized Eigenvalue Problem Takuma Isobe , University of Tsukuba, Japan	1
14:20-14:45	Title: Universal Critical behavior in Hubbard models with Dirac dispersion: Gross-Neveu-Heisenberg Class Yuichi Otsuka , RIKEN Center for Computational Science, Japan	1
14:45-15:10	Title: Electronic Structures of Ti2O3 Films Revealed by Soft X-Ray Angle-Resolved Photoemission Spectroscopy Kohei Yoshimatsu , Tohoku University, Japan	1
15:10-15:35	Title: Thermoelectricity and Topological Phase Transition as a Route to Enhance Thermoelectric Performance Jong-Soo Rhyee, Kyung Hee University, South Korea	1
15:35-16:00	Title: Ultrafast Spectroscopy of 3D-Topological Insulators by High-Order Harmonics Alexis Chacon, Max Planck Postech, South Korea	1
16:00-16:25	Title: Influence of Substrate Properties on Bonding Mechanism of Coldsprayed Titanium Dioxide Coating Noor Irinah Binti Omar, Universiti Teknikal Malaysia, Malaysia	1
16:25-16:50	Title: X-Ray Circular Dichroism of a Collinear Antiferromagnet with a Structural Chirality Okamoto Jun, National Synchrotron Radiation Research Center, Taiwan	1
16:50-17:15	Title: Nanoresistance Networks Construction Technique in Flexible Sensing Materials Nan Lv, Northeast Electric Power University, China	1
17:15-17:40	Title: Tuning Topological Orders by a Conical Magnetic Field in the Kitaev Model Wei Chen , Nanjing University, China	1
17:40-18:05	Title: 75As NMR Study of the Antiferromagnetic Kondo Lattice CeNiAsO Yongkang Luo , Huazhong University of Science and Technology, China	1

18:05-18:30	Title: Nanoscale Control of One-Dimensional Confined States Yu Zhang , Beijing Institute of Technology, China	1
Day-3 WE	NSDAY OCTOBER 19, 2022	
Virtual Pres	sentations Time zone: Newyork, USA (GMT-4)	
09:30-09:55	Title: Optimization of Mxene Photoelectrodes for Energy Conversion and Storage Purposes Anum Iqbal, American University of Sharjah, UAE	1
09:55-10:20	Title: A New Way to Convert Opaque CVD Diamond into Transparency Guodong (David) Zhan , Saudi Aramco EXPEC Advanced Research Center, Saudi Arabia	1
10:20-10:45	Title: Granular Superconductivity at Room Temperature at the Stacking Faults of Graphite Pablo D Esquinazi, University of Leipzig, Germany	1
10:45-11:10	Title: Metal-Insulator Transition and Robust Thermoelectricity via Strain- Tuned Interplay Between Structural and Electronic Properties in (SrVO3)1/ (SrTiO3)1(001) Superlattices Manish Verma, University of Duisburg-Essen, Germany	ı
11:10-11:35	Title: Will be Updated Soon Fabrizio Bobba, University of Salerno, Italy	I
11:35-12:15	Title: Two-Dimensional Material Confined Water Mingdong Dong, Aarhus University, Denmark	P
12-15:12:45	Title: Will be updated soon Anderson S L Gomes, Universidade Federal of Pernambuco, Brazil	K
12:45-13:45	Title: Wave Scattering by many Small Particles and Applications Alexander G Ramm , Kansas State University, USA	P
13:45-14:25	Title: Advances in Complex Functional Materials Through Templating Andreas Stein, University of Minnesota, USA	P
14:25-15:05	Title: Some Challenges in Understanding the Corrosion of Copper Digby D Macdonald , University of California at Berkeley, USA	P
15:05-15:35	Title: Interface Driven Properties of Graphene-based Heterostructures Ravindra Pandey, Michigan Technological University, USA	K
15:35-16:00	Title: Kondo Effect at Nanoscale in Ytterbium Organometallic Molecule Cp*2Yb(4,4'-Me2-bipy) under High Pressure Farzana Nasreen, Colgate University, USA	I
	End of Conference	





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3rd Global Summit and Expo on Condensed Matter Physics **September 18-20, 2023 | Lisbon, Portugal**

https://www.thescientistt.com/2023/condensed-matter-physics



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October 26-28, 2023 | Barcelona, Spain

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