

Technical Program

2nd International conference on Advanced Materials and Nanotechnology (ICAMN-2022)

Online Mode

Organised by: Department of Physics and Materials Science and Engineering of Jaypee Institute of Information Technology, Noida

DAY 1 (Timeline in IST)	Thursday, December 22, 2022		
9:30- 10:30	Inauguration Function (Meeting Link: https://meet.google.com/gnp-fkja-ncu)		
Session 1			
10:40-11:35	PL1: Prof. Rajeev Ahuja (Director, IIT Ropar) Title: Computational materials science and its applications in the area of materials for energy		
11:35-12:20	PL2: Prof. Bodh Raj Mehta (Directorate of Research, Innovation and Development, Jaypee University System & Department of Physics, Indian Institute of Technology Delhi, New Delhi, India) Title: Understanding 2D-3D interfaces for thermoelectric and solar cell applications		
12:25-12:55	LUNCH		
Post Lunch Sessions			
	Parallel Session 1 Meeting Link: https://meet.google.com/gnp-fkja-ncu Session Chair: Prof. D K Rai	Parallel Session 2 Zoom Meeting Link https://osachapter.zoom.us/j/2223236371?pwd=L0lNeHJTWng5V1dQUURFNTFtSGMwUT09 Meeting ID: 222 323 6371 Passcode: 155187 Session Chair: Prof. B R Mehta	Parallel Session 3 Zoom Meeting Link https://us06web.zoom.us/j/2319314217?pwd=RW5iNHRDc1M1dkF5bXMrdHBibzJidz09 Meeting ID: 231 931 4217 Passcode: 998520 Session Chair: Prof. Anirban Pathak
13:00-13:45	KN1: Prof. Shyama Rath (University of Delhi) Title: Optical spectroscopy of two dimensional semiconductors	KN2: Prof. Sateesh Krishnamoorthy (The Open University, UK) Title: 2D materials can it address energy/water challenges of 21st Century?	KN3 Prof. Zakir Hussain (Department of Physics, IIT Kanpur) Title: Magnetotransport properties of novel topological magnetic/superconducting materials
13:50- 14:35	KT4: Prof. Silke Christiansen (Fraunhofer-Institut für Keramische Technologien und Systeme IKTS , Germany) Title: Context microscopy and spectroscopy to advance materials and devices – examples from energy research and semiconductor technology	KN5: Prof. Yogendra Mishra (South Denmark University, Denmark) Title: Tetrapods based Smart Materials for Advanced Technologies	KN6: Prof. Udo Schwingenschogl (King Abdulla University of Science and Technology, Saudi Arabia) Title : Predicting the Gas Sensing Performance of 2D Materials
14:40-15:05	IT4: G D Sharma (LNM Institute of Information Technology , Jaipur) Title: Recent Advances in Fullerene Free Organic Solar Cells: Materials and Device Physics and Applications	KN7: Prof. K K Nanda (Director, Institute of Physics, Bhuwaneshwar) Title: Maximizing the utilization of catalytic centres for energy applications (Timings as per Keynote)	IT2: Dr. Nirpendra Singh (Khalifa University, Abu Dhabi, UAE), Title: Utilizing 2D MXenes for CO2 Hydrogenation: A Theoretical Perspective
15:10 -16:10	Oral Talks: A101, A102, A103, A104, A105, A107, A115	Oral Talks: B103, B104, B105, B106, B109, B110 , B112	Oral Talks: C102, C103, C104, C107, C108, C109, C110
16:10-17:10	Oral Talks: A116, A117, A118, A119, A120, A126, A127	Oral Talks: B113, B114, B117, B123, B125, B127, B128	Oral Talks: D102, D103, D104, D106, D107, D108, D109, D110
17:10-17:40	Oral Talks: A128, A129, A130, A131	Oral Talks: B129, B130, B131, B132	Oral Talks: C113, C114, C115, C117, C120
DAY 2 (Timeline in IST)	Friday, December 23, 2022		

Session 1			
9:00-09:45	PL3: Prof. Matthais Batzill (University of South Florida, USA) Title: Successes and Challenges in Van der Waals Epitaxy of Transition Metal Dichalcogenides Meeting Link: https://meet.google.com/gnp-fkja-ncu		
	Parallel Session 1 Meeting Link: https://meet.google.com/gnp-fkja-ncu Session Chair: Prof. Zakir Hussain	Parallel Session 2 Zoom Meeting Link https://osachapter.zoom.us/j/2223236371?pwd=L0lNeHJTWng5V1dQUURFNTFtSGMwUT09 Meeting ID: 222 323 6371 Passcode: 155187 Session Chair: Prof. S P Purohit	Parallel Session 3 Zoom Meeting Link https://us06web.zoom.us/j/2319314217?pwd=RW5iNHRDc1M1dkF5bXMrdHBibzJidz09 Meeting ID: 231 931 4217 Passcode: 998520) Session Chair: Dr. Nirpendra Singh
9:50-10:30	KN8: Prof. Rajesh Kumar (Indian Institute of Technology, Indore) Title: Electrochromic materials and device	IT3: Dr. Mukesh Kumar (Department of Physics, IIT Ropar) Title: Wafer scale growth 2D MoS2 for Photodetector and sensor applications	KN9: Prof. Debashish Kulia (North Carolina A & T State Univ. USA) Title: Nanocatalysts for Biomass Conversion into Fuels and Value-Added Chemicals.
10:30-10:55	IT1: Dr. Alok Jha (Kyushu Institute of Technology) Title: Vortex pinning and critical current densities in superconducting REBCO thin films with different nanoscale inclusions	Oral Talks: B133, B134, B135	IT5: Dr. C R Gautam (Lucknow University, India) Title: Vabrication, Structural, and Mechanical Evolution of ZrO2/AlOOH Hybrid Reinforced Resin Nanocomposites for Dental Applications
11:00-12:35	Oral Talks: A121, A122, A123, A124, A125, A134, A136, A138, A140	Oral Talks: B137, B138, B139, B140, B141, B142, B157, B158,	Oral Talks: C121, C122, C123, C125, C127, C128, C129, C130, C131
12:35-13:15	KN10: Dr. Pratishta Pandey (Head Infrastructure, DST India) Title: Infrastructure programs of DST Meeting Link: https://meet.google.com/gnp-fkja-ncu		
13:15- 13:50	LUNCH		
Post Lunch Sessions			
13:50- 14:30	PL4: Prof. Philippe Colomban (Sorbonne-Universite, France) Title: Mobile proton and protonic species in solid state. Understanding hydrogen-based materials for the future Meeting Link: https://meet.google.com/gnp-fkja-ncu		
	Parallel Session 1 Meeting Link: https://meet.google.com/gnp-fkja-ncu Session Chair: Prof. Papiia Chowdhury	Parallel Session 2 Zoom Meeting Link https://osachapter.zoom.us/j/2223236371?pwd=L0lNeHJTWng5V1dQUURFNTFtSGMwUT09 Meeting ID: 222 323 6371 Passcode: 155187 Session Chair: Prof. Navendu Goswami	Parallel Session 3 Zoom Meeting Link https://us06web.zoom.us/j/2319314217?pwd=RW5iNHRDc1M1dkF5bXMrdHBibzJidz09 Meeting ID: 231 931 4217 Passcode: 998520 Session Chair: Prof. Navneet K Sharma
14:30-14:55	IT6: Dr. Anurag Gaur (Netaji Subhash University of Technology, New Delhi) Title:Hybrid Supercapacitors: Future of Energy Storage Devices	IT7: Dr. Himanshu Pandey (National Inst. Technology Surat) Title: Versatile Applications of Heusler Alloys	IT8: Prof. Pankaj Sharma (NITTR, Chandigarh) Title: Role of Ga addition on the optical characteristics of the GeTeSe system
15:00-16:30	Oral Talks: A141, A142, A143, A145, A146, A147, A148, A149, A150,	Oral Talks: B143, B144, B146, B147, B149, B151, B152, B153, B154, B155	Oral Talks: D111, D114, D115, D116, D117, D118, D119, D120, D121, D122
16:35-17:20	Oral Talks: A151, A152, A153, A154, A155	KN11: Prof. D K Agarwal (Penn State Materials research Institute USA) Title: Processing of Variety of Materials Using Microwave Energy	Oral Talks: C133, C135, C136,
DAY 3 (Timeline in IST)	Saturday, December 24, 2022		
Session			

	Parallel Session 1	Parallel Session 2	Parallel Session 3
	Parallel Session 1 Meeting Link: https://meet.google.com/gnp-fkja-ncu Session Chair: Dr. Poonam Uniyal	Zoom Meeting Link https://osachapter.zoom.us/j/2223236371?pwd=L0lNeHJTWng5V1dQUURFNTFtSGMwUT09 Meeting ID: 222 323 6371 Passcode: 155187 Session Chair: Dr. Anurag Gaur	Zoom Meeting Link https://us06web.zoom.us/j/2319314217?pwd=RW5iNHRCd1M1dkF5bXRdHBibzJidz09 Meeting ID: 231 931 4217 Passcode: 998520 Session Chair: Dr. Vikas Malik
9:20-10:00	KN12: Prof. Somnath C Roy (IIT Madras) Title: Growth and Applications of Vertically Aligned Nano and Heterostructures	KN13: Dr. Oommann Varghese (University of Houston USA) Title: Low dimensional heterostructures for broad-spectrum solar energy conversion	IT10: Dr. Akhilesh Kumar Singh (IIT BHU) Title: Rietveld Structural Analysis of New Bi-Based Piezoceramics with Morphotropic Phase Boundary
10:00-10:25	IT9: Dr. Sunil Kushwaha (National Physical Laboratory, New Delhi) Title: Laser MBE-grown epitaxial GaN nanostructures for optoelectronic applications	Oral Talks: B126,B166, B167, C105	IT11: D. S K Mishra (Quality Council of India, New Delhi) Title: Viability of Evaluation of Research Programs
10:30-13:30	Oral Talks: A137, B159, B160, B161, B162, B163, B165, A111, A113, A114, A132, A133, A139, A144, A154, D127, D129, D132	Oral Talks: B168, B169, B172, B173, C140, C141, B108, B115, B124, B148, B150, B156, B164, B169, B171, B174, B136	Oral Talks: D123, D124, D128, D131, D133, C137, C138, C139,C119, C124, C126, C132, C134, C141, D101, D105, D112, D113, D114,
Valedictory Ceremony			