

# ICSM 2018

3<sup>rd</sup> INTERNATIONAL CONFERENCE ON  
SOFT MATERIALS



JAIPUR, DECEMBER 9-14, 2018

## SCIENTIFIC PROGRAMME

<http://smrsi.org/icsm2018/>

*Organized by :*



Soft Materials Research Society, Jaipur  
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Malaviya National Institute of Technology, Jaipur  
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**Scientific Program of ICSM-2018**

**09<sup>th</sup> December 2018**

**Venue: Neeti Sabhagar, Prabha Bhavan, MNIT Jaipur**

08:00- 09:00	Workshop Registration
09:00- 09:30	Workshop Inauguration and welcome address
09:30- 11:00	<i>Atomic Force Microscopy for Measuring Interactions and Mechanics</i> Prof. A. Fery, Institute for Physical Chemistry and Polymer Physics IPF Dresden, Germany
<b>11:00- 11:30</b>	<b>Tea Break</b>
11:30-13:00	<i>Fabrication of Polymer Membranes</i> Prof. V. Abetz, Institute of Polymer Research, Helmholtz-ZentrumGeesthacht, Germany
<b>13:00-14:00</b>	<b>Lunch Break</b>
14:00- 15:30	<i>SAXS Studies of Aligned CNT/Polymer Nano-composite Membranes</i> Prof. Y. K. Vijay, VGU, Jaipur India
<b>15:30- 16:00</b>	<b>Tea Break</b>
16:00- 17:00	Inauguration of ICSM 2018 & Welcome address by Prof. Udaykumar R. Yaragatti, Director MNIT Jaipur
17:00- 18:00	<i>From mud crack templates to Optoelectronic devices- Translating an Invention to a disruptive Technology</i> Opening Talk by Prof. G. U. Kulkarni, Centre for Nano and Soft Matter Sciences, Bengaluru, India
<b>19:00- 21:00</b>	<b>Welcome dinner at Hotel Vrisa, Jaipur</b>

**10<sup>th</sup> December 2018**

**Venue: Hotel Vrisa, Jaipur**

**Session 1**

09:00-09:40	<i>Polymer Surfaces for Guiding Nanoparticle Assembly</i> A. Fery, Institute for Physical Chemistry and Polymer Physics IPF Dresden, Germany)
9:40-10:00	<i>Localization of Inorganic Salt in Poly(ethylene oxide)/Rubber -Based Composite Polymer Electrolytes</i> Chan Chin Han, UniversitiTeknologi MARA, Malaysia
10:00-10:20	<i>High-Performance Polymers and Membranes Thereof for Gas Separation Application</i> Susanta Banerjee, IIT Kharagpur, India
10:20-10:40	<i>Nanotechnology: A boon for materials for energy</i> D. K. Avasthi, Amity University, Noida, India
10:40-11:00	<i>Hierarchical Nanostructures in Block Copolymer/Nanoparticle Mixtures</i> Bhanu Nandan, IIT Delhi, India
11:00-11:10	<i>Transient Cooperative Processes in Sheared Polymer Melts</i> Sivasurender Chandran, University of Freiburg, Germany (Abstract ID: 1522)
<b>11:10-11:30</b>	<b>Tea Break</b>

**Session 2**

11:30-11:50	<i>Radiation assisted biomimicry leading to a biodegradable multifunctional superabsorbent</i>
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	<i>for oily substance removal from aqueous media</i> Subhendu Ray Chowdhury, BARC, Mumbai, India
11:50-12:10	<i>Hybrid Nanostructures for Lithium-Sulfur Batteries</i> Soumyadip Choudhury, Technische Universität Chemnitz, Germany
12:10-12:20	<i>Electrospun fibers of polymerized ionic liquids and their CO<sub>2</sub> affinity</i> Puhupuneet, IIT Delhi, India (Abstract ID: 1506)
12:20-12:30	<i>Fluorine-containing polymers for membrane separation</i> Nikolay Belov, A.V. Topchiev Inst. of Petrochemical Synthesis of RAS, Moscow, Russia (Abstract ID: 1201)
12:30-12:40	<i>Morphology of membranes undergoing nonequilibrium area fluctuations</i> Sachin Krishnan T V, IIT Madras, India (Abstract ID: 1204)
12:40-12:50	<i>Gradient crystallinity and its influence on membrane properties derived from the PVDF/PMMA blend by non-solvent induced phase separation method</i> Sanjay Ramanan, IIT Kharagpur, India (Abstract ID: 1219)
12:50-13:00	<i>Suppressing Electromagnetic Radiation by Trapping Ferrite Nanoparticles and Carbon Nanotubes in polymer composites</i> Maya Sharma, KU Leuven, Belgium (Abstract ID: 1438)
13:00-13:10	<i>Graphene based membrane for hydrogen</i> Rajesh Kumar, MNIT Jaipur, India (Abstract ID: 906)
<b>13:10- 14:00</b>	<b>Lunch break</b>
<b>Session 3</b>	
14:00- 14:20	<i>Hydride based anode for all-solid-state lithium ion batteries</i> Takayuki Ichikawa, Hiroshima University, Japan
14:20- 14:40	<i>Channelized Ionic Conductivity in LaAlO<sub>3</sub> and NBT Electrolytes for Solid Oxide Fuel Cells</i> Prabhakar Singh, IIT(BHU) Varanasi, India
14:40-14:50	<i>Structural and Electrochemical Properties of Graphene / Conducting Polymer Nanocomposite Materials for the development of supercapacitor &amp; Energy storage</i> K.Senthil Kumar, Kongu Engineering College, Tamilnadu, India (Abstract ID: 1120)
14:50-15:00	<i>Thermoelectric Cotton Fabric for Wearable Power Generator</i> Himchan Oh, Electronics & Tel. Research Institute, Daejeon, Republic of Korea (Abstract ID: 1142)
15:00-15:10	<i>Biowaste derived mesoporous activated carbon electrocatalyst for oxygen reduction reaction</i> Alekha Tyagi, IIT Kanpur, India (Abstract ID: 1110)
15:10-15:20	<i>Sustainable Graphene Aerogels for Varied Applications in High Performance Supercapacitors and Environmental Remediation</i> Kumud Malika Tripathi, Gachon University, South Korea (Abstract ID: 1157)
15:20-15:30	<i>Synthesis and Characterization of Mixed Halide Double Perovskites for Photovoltaic Applications</i> Mrinmoy Kumar Chini, IIT Roorkee, India (Abstract ID: 1115)

15:30-15:40	<i>Bi<sub>2</sub>Te<sub>3</sub> nanostructures as an efficient anode for all solid-state Li-ion batteries</i> Pooja Kumari, MNIT Jaipur, India (Abstract ID: 1123)
<b>15:40- 16:00</b>	<b>Tea Break</b>
<b>Session 4</b>	
16:00-16:20	<i>Graphene-based Materials for Flexible Electronics and Energy Storage Applications</i> Tae Young Kim, Gachon University, South Korea
16:20-16:40	<i>Porous MnCo<sub>2</sub>O<sub>4</sub> as superior anode material than nanoparticles MnCo<sub>2</sub>O<sub>4</sub> for Rechargeable Lithium Ion batteries</i> Alok Kumar Rai, Delhi University, India
16:40-17:00	<i>Synthesis of Heterojunctional Core-shell Nanoparticles and their Application for Gas Sensors</i> Yeon Tae Yu, Chonbuk National University, South Korea
17:00-17:20	<i>Core@Shell Nanostructures as a New Platform for Gas Sensor Applications</i> Prabhakar Rai, IIT Kanpur, India Title:
17:20-17:30	<i>Soft, Elastic Macroporous Monolith by Templating High Internal Phase Emulsions with Aminoclay: Preparation, Pore Structure and Use for Enzyme Immobilization</i> Anees Ahmed Yunus Khan, Manipal University Jaipur, India (Abstract ID: 727)
17:30-17:40	<i>Green synthesis and physicochemical properties of ultra-small (<math>r &lt; 2</math> nm), digestively ripened copper oxide quantum dots</i> Bhusankar Talluri, IIT Madras, India (Abstract ID: 710)
17:40-17:50	<i>Interaction of Boron based Nanosheets with Organic Dyes in Aqueous Dispersions: Adsorption and Aggregation Behaviours</i> Raman Dhiman, IIT Gandhinagar, India (Abstract ID: 740)
17:50-18:00	<i>Chitosan Grafted Poly(methyl methacrylate) via Free-radical Polymerisation for Fertilizer Controlled Release Study</i> KhairilJuhannibinti Abd Karim, UTM, Skudai, Malaysia (Abstract ID:1518)
18:00-18:10	<i>Low Energy Ion Beam Implantation Effect on Cu Nanowires Synthesized Using Template-Based Electrodeposition</i> Rashi Gupta, GGSU New Delhi, India (Abstract ID: 1902)
<b>11<sup>th</sup> December, 2018</b>	
<b>Venue: Hotel Vrisa, Jaipur</b>	
<b>Session 5</b>	
09:00-09:40	<i>Shaping a Fly Wing</i> Frank Julicher, MPI PCS Dresden, Germany
09:40-10:00	<i>Membrane curvature sensing and generation: role of membrane-protein interaction</i> P. B. Sunil Kumar, IIT Palakkad, Kerala, India
10:00-10:20	<i>Phase transitions and self-assembly in active matter</i> Ignacio Pagonabarraga, University of Barcelona, Spain
10:20-10:40	<i>Spontaneous symmetry breaking of charge-regulated surfaces</i> ArghyaMajee, Max Planck Institute for Intelligent Systems, Germany
10:40-11:00	<i>Solvent coarsening around laser-heated colloidal particles and Casimir forces</i> Sutapa Roy, Max Planck Institute for Intelligent Systems, Germany
11:00-11:10	<i>Role of Morphological Differences in Cell Sorting</i>

	PreetiSahu, Syracuse University, NY, USA (Abstract ID: 116)
<b>11:10- 11:30</b>	<b>Tea Break</b>
<b>Session 6</b>	
11:30:12:10	<i>Motile active matter emergent properties by structure and hydrodynamics</i> Roland G. Winkler, Institute of Complex Systems, ForschungszentrumJülich, Germany
12:10-12:30	<i>Confinement induced trajectory of a squirmer</i> Sumesh P. Thampi, IIT Madras, India
12:30-12:50	<i>Active motion: individual trajectories and collective effects</i> Detcheverry François, Institut Lumière Matière, France
12:50-13:00	<i>Self-Propelling Polymer Linked Bimetallic Gold /Platinum microrods</i> Reenu Mary Kuriakose, SIST Chennai, India (Abstract ID: 1704)
13:00-13:10	<i>Self-moving Belousov-Zhabotinsky (BZ) reaction droplet synergised by graphene-based nanocomposites</i> D. Jaya Prasanna Kumar, IIT Gandhinagar, India (Abstract ID: 1707)
<b>13:10- 14:00</b>	<b>Lunch Break</b>
<b>Session 7</b>	
14:00-14:20	<i>Peptide and Metabolite Materials: A Reductionist Approach</i> Ehud Gazit, Tel Aviv University, Israel
14:20-14:40	<i>Collective behavior of self-propelled particles - studying the effect of environment and interaction</i> Raghunath Chelakkot, IIT Bombay, India
14:40-15:00	<i>Self-Assembly of Adaptive Orthoester Architectures</i> Max von Delius, University of Ulm, Germany
15:00-15:20	<i>Self-assembly and active motion of spherical-cap colloids</i> Ethayaraja Mani, IIT Madras, India
15:20-15:30	<i>Structure formation in isoporous hollow fiber membranes</i> Kirti Sankhala, Institute of Polymer Research, Geesthacht, Germany (Abstract ID: 1623)
15:30-15:40	<i>A Minimal Model in Implicit Solvent for 1D Self-assembly of C-3symmetric Amphiphilic Peptides in Water</i> Saikat Chakraborty, Johannes Gutenberg-Universit, Mainz, Germany (Abstract ID: 1608)
<b>15:40-16:00</b>	<b>Tea Break</b>
<b>Session 8</b>	
16:00-16:20	<i>Dynamics of Interfacial Swimmers</i> Ybert Christophe, Institut Lumière Matière, France
16:20-16:40	<i>Work extraction in a stochastic heat engine due to active dissipation.</i> Marathe Rahul, IIT Delhi, India
16:40-17:00	<i>Implications of Colloidal Self Assembly, Confinement and External Fields on Rheology of Colloidal Particles-in-Liquid Crystals</i> Prachi Thareja, IIT Gandhinagar, India
17:00-17:20	<i>Phase ordering in Some Complex Systems: Rough Interfaces, Anisotropic Growth Laws and Logarithmic Slowing Down</i> Varsha Banerjee, IIT Delhi, India
17:20-17:30	<i>Role of polymeric component in the phase separation of ternary fluid mixtures</i> Awaneesh Singh, IIT(BHU) Varanasi, India (Abstract ID: 401)
17:30-17:40	<i>Dynamics of self-rewetting thin liquid films</i>

	<i>on chemically patterned surfaces</i> Shantharama, IIT Madras, India (Abstract ID: 403)
17:40-17:50	<i>Quantification of monosaccharides by self-oscillating reaction</i> Sachin Verma, IIT Gandhinagar, India (Abstract ID: 408)
17:50-18:00	<i>Modelling Dynamics of Photochemically Directed Pattern Formation in Polymer Films</i> Swathi E, IIT Madras, India (Abstract ID: 411)
18:00-18:10	<i>Investigations of Optical and Thermoelectric Response of GaBi Monolayer</i> Lalit Kumar Saini, SVNIT Surat, India (Abstract ID: 1105)
18:10-18:20	<i>Kinetics of self-oscillating Belousov-Zhabotinsky reaction catalysed by Ruthenium decorated graphene nanosheets</i> PratyushDayal, IIT Gandhinagar, India (Abstract ID: 1413)
<b>12<sup>th</sup> December 2018</b> <b>Venue: Hotel Vrisa, Jaipur</b>	
<b>Session 9</b>	
09:00-09:40	<i>Thermoreversible Polymer Networks</i> V. Abetz, Institute of Polymer Research, Helmholtz-ZentrumGeesthacht, Germany
09:40-10:00	<i>Autonomous Self-healing Rubbers for Smart Application</i> Amit Das, IPF Dresden, Germany
10:00-10:20	<i>Compatibilisation and Emulsification of Maleic Anhydride-grafted Polystyrene and Concentrated Natural Rubber Latex for Soil Binder</i> Basuki Wirjosentono, University of Sumatera Utara, Indonesia
10:20-10:40	<i>Influence of Swift Heavy Ion Irradiation on Structural, Thermal, Magnetic and Dielectric Properties of Polymer Nanocomposites</i> N. L. Singh, MSU, Baroda, India
10:40-10:50	<i>New Methods of Trapping and Separating Polymers and Particles at the Microscale, based on Conformation-dependent Electrophoretic Mobility</i> Harsh Pandey, Manipal University Jaipur, India (Abstract ID: 113)
10:50-11:00	<i>Air-water interface as a platform for directed transport and assembly of floating entities using capillary forces</i> Vinay TV, NIT Calicut, India (Abstract ID: 1613)
11:00-11:10	<i>Evaporative Self-assembly of SoftThermoresponsiveBidisperse Microgel Particles</i> Merin Jose, IIT Madras, India (Abstract ID: 1610)
<b>11:10- 11:30</b>	<b>Tea Break</b>
<b>Session 10</b>	
11:30-12:00	<i>Simple cell functions by polymersomes and hollow capsules</i> Dietmar Appelhans, IPF Dresden, Germany
12:00-12:20	<i>A Water Insoluble Molecular Hydrogel: Protecting Proteins from Denaturation</i> Debatpritim Das, IIT Guwahati, India
12:20-12:40	<i>Dendrimer-Drug Conjugation: Effective Strategy for Brain Delivery and Improved Pharmacokinetics and Better Safety</i> Umesh Gupta, CURAJ, India
12:40-12:50	<i>Functional Nanogels: A Versatile Platform for Controlled Drug Delivery</i> Garima Agrawal, IIT Roorkee, India (Abstract ID: 501)
12:50-13:00	<i>Immobilization of Bacterial Cells in Hydrogels prepared by Gamma Radiation for Bioremoval of Strontium</i> Antaryami Singh, DRDO Jodhpur, India (Abstract ID: 807)
13:00-13:10	<i>Keggin polyoxometalates encapsulated with molecularly imprinted polymers for removal</i>

	<i>of pesticides</i> Sruthi Guru, IIT Madras, India (Abstract ID: 1411)
<b>13:10- 14:00</b>	<b>Lunch Break</b>
<b>Session 11</b>	
14:00-14:20	<i>Solid-state Driven Hydrogel Nano-/Microstructures with Predefined Geometry and Controlled Swelling Via Hydrogelification</i> Myung-Han Yoon, GIST, Gwangju, South Korea
14:20-14:40	<i>Application of Quantum- and Bio- Dots Derived from Natural Sources for Health and Optoelectronic Devices</i> Avanish Singh Parmar, IIT (BHU) Varanasi, India
14:40-15:00	<i>Colloidal Assembly using AC Electrokinetics</i> Shalini Gupta, IIT Delhi, India
15:00-15:20	<i>Development of Metal-Organic Framework Based Enzymatic Biosensor for Convenient and Sensitive Detection of Organophosphate Pesticides</i> Akash Deep, CSIR-CSIO, Chandigarh, India
15:20-15:30	<i>Loosely packed self-assembled monolayers of soft polymeric microgels: Evolution of areal disorder with temperature</i> Mayarani M, IIT Madras, India (Abstract ID: 314)
15:30-15:40	<i>Nanocellulose reinforced PVA based injectable bio-nanocomposite hydrogel scaffold for bone tissue regeneration</i> KapenderPhogat, Manipal University, Jaipur, India (Abstract ID: 802)
<b>Session 12</b>	
<b>15:40-16:00</b>	<b>Tea Break</b>
16:00-16:20	<i>Incommensurate helical Phase in Triangular Spin Lattice of NiBr<sub>2</sub></i> Shrawan Kumar Mishra, IIT (BHU) Varanasi, India
16:20-16:30	<i>Reentrant Magnetism at the Borderline between Long-Range Antiferromagnetic Order and Spin-Glass Behavior in the 3d-4d and 3d-5d Transition Metal Based Perovskite System</i> Avijit Kumar Paul, NIT Kurukshetra, India (Abstract ID: 1802)
16:30-16:40	<i>Preparation, Investigation and Electromagnetic Properties of Hard/Soft Magnetic Core/Shell Nanocomposites for Magnetic Sensor by Polyacrylamide Sol/Gel Route</i> Sankaranarayanan R, ManonmaniamSundaranar University, Tamilnadu, India (Abstract ID:1806)
16:40-16:50	<i>Tuning of protein-surfactant interaction by combination of Ionic and Nonionic Surfactants</i> Debasish Saha, BARC Mumbai, India (Abstract ID: 321)
16:50-17:00	<i>Interaction of quinine sulfate with cationic micelles of alkyl trimethyl ammonium bromides (CnTAB): A spectroscopic study at different pH</i> Sunita Joshi, Amity University Jaipur, India (Abstract ID: 326)
17:00-17:10	<i>Drying Induced Cracks &amp; Effect of External Fields</i> Hisay Lama, IIT Madras, India (Abstract ID: 309)
17:10-17:20	<i>Colloidosomes formation using mixture of oppositely charged particle and polyelectrolyte complex</i> Shumaila Shahid, IIT Madras, India (Abstract ID: 320)
17:20-17:30	<i>Dip coating of liquid and particulate films on porous substrates</i> Rahul Sathyanath, IIT Madras, India (Abstract ID: 327)
17:30-17:40	<i>Assembling of covalently conjugated silver nanoparticles with biotin or avidin on gold electrode to improve interfacial electron transfer</i>

	NirgamanBage, BIT Ranchi, India (Abstract ID: 709)
17:40-17:50	<i>Self-assembly of Quaternized Diblock Copolymer Gels: Influence by Salt concentrations</i> SanjeeviPrasath S, SIST Chennai, India (Abstract ID: 812)
17:50-18:00	<i>Rheological Studies of Mechanically tunable Graphene Oxide Gels: Effect of Aspect Ratio and Electrolytes</i> Abhijeet Ojha, IIT Gandhinagar, India (Abstract ID: 815)
18:00-18:10	<i>Single wall carbon nanotube Spray Coating: An Initial Study</i> Sonia Saini, IIST Thiruvananthapuram, India (Abstract ID: 724)
<b>18:30-21:30</b>	<b>Conference Dinner</b>
<b>13<sup>th</sup> December 2018</b> <b>Venue: Hotel Vriska, Jaipur</b>	
<b>Session 13</b>	
09:00-09:40	<i>Functional Nanocomposites ÇFrom Fabrication to Function</i> Franz Faupel, University of Kiel, Germany
09:40-10:00	<i>New optical nanomaterials for next generation optoelectronic applications</i> Katharina Al-Shamery, Carlvon Ossietzky University Oldenburg, Germany
10:00-10:20	<i>Novel Class of Materials as Remarkable Bifunctional Electrocatalysts for Alkaline Water Electrolysis</i> Prashanth Menezes, Technische Universität Berlin, Germany
10:20-10:40	<i>Electronic Structure Modifications in DMS and Multiferroic materials</i> D. G. Kuberkar, Saurashtra University, Rajkot, India
10:40-11:00	<i>MoS2 Functionalized with rGO Particles for Efficient Room Temperature NO2 Sensor</i> Mahesh Kumar, IIT Jodhpur, India
11:00-11:10	<i>Nano-pillar formation by self-assembled LJ fluid inside narrow geometry(Enhanced comp cell-listing algorithm)</i> Satyapal Singh, MMMUT Gorakhpur, India (Abstract ID: 1604)
<b>11:10- 11:30</b>	<b>Tea Break</b>
11:30-11:50	<i>Mixed-Anion Photocatalytic Materials for Energy and Environmental Applications</i> MirabbosHojamberdiev, Nagoya University, Japan
11:50-12:10	<i>Multifunctional Hybrid Heterojunction Diodes: Phenomena of Resistive Switching and Negative Differential Resistance under Ion Beams</i> Fouran Singh, IUAC, New Delhi, India
12:10-12:20	<i>Green Memories: Resistive Switching in Bio-degradable polymer nano composites</i> VS Vallabhapurapu, University of South Africa, Johannesburg, South Africa
12:20-12:30	<i>Computational Study of Pair Interaction Between Functionalized Polymer Grafted Nanoparticles</i> Balaji V.S. Iyer, IIT Hyderabad, India (Abstract ID: 1404)
12:30-12:40	<i>Nanoscale Two Dimensional Layered Materials for Optoelectronics and Flexible Electronics Applications</i> Ajay Soni, IIT Mandi, India
12:40-12:50	<i>Development of an enzymatic sensor with vertically aligned titania nanotubes and photo-reduced graphene oxide (TiNT-rGO) hybrid electrode for the detection of L-tyrosine.</i> Shikha Wadhwa, Amity University, Noida, India (Abstract ID: 1433)
12:50-13:00	<i>Effect of applied magnetic field on the phase transition temperature of a carbon nanotube-lyotropic liquid crystal composite</i> D. Vijayaraghavan, RRI Bengaluru, India (Abstract ID: 1434)
13:00-13:10	<i>1-Dimensional Metal Mesh Structures based on Nature Inspired Templates for Energy</i>

	<i>and Optoelectronics</i> Vikas Sharma, IIT Bombay, India (Abstract ID: 1145)
<b>13:10- 14:00</b>	<b>Lunch Break</b>
<b>Session 14</b>	
<b>14:00-16:00</b>	<b>Flash Talks</b>
<b>Session 15</b>	
<b>16:00-18:00</b>	<b>Poster Session and High Tea</b> <b>Venue: MNIT, Jaipur</b>
<b>18:00-19:00</b>	<b><i>Annual general body meeting and Executive Council meeting of SMRS</i></b> <b>14<sup>th</sup> December 2018</b> <b>Venue: Hotel Vrisa, Jaipur</b>
<b>Session 16</b>	
09:00-09:20	<b><i>Designing Versatile Colloidal Particle Stabilized Emulsions</i></b> BasavarajaMadivalaGurappa, IIT Madras, India
09:20-09:40	Sameer Sapra, IIT Delhi, India
09:40-10:00	<b><i>Fluidic nanolenses: zooming in made affordable</i></b> Ankur Verma, IIT (BHU) Varanasi, India
10:00-10:20	<b><i>Weak Ferromagnets &amp; Piezomagnets and their Encapsulation inside Carbon nanotubes</i></b> Ashna Bajpai, IISER Pune, India
10:20-10:40	<b><i>Nanomaterials enabled futuristic sensors based on microfluidic platform</i></b> Ashish Mathur, Amity University, Noida, India
10:40-10:50	<b><i>Spectroscopic studies on Bi2Te3 nanosheets and their sensing application</i></b> Sandeep Gupta, Amity University, Jaipur, India (Abstract ID: 742)
10:50-11:00	<b><i>Enhanced photocatalytic degradation of cationic dyes using Bi2O3 nanoplates</i></b> Rini Singh, MNIT Jaipur, India (Abstract ID: 744)
11:00-11:10	<b><i>Sonochemical fabrication of polystyrene-iron oxide (PS-Fe3O4) composite particles for thin film dielectric</i></b> Jagannathan T. Kalathi, NIT Surathkal, India (Abstract ID: 1406)
<b>11:10- 11:30</b>	<b>Tea Break</b>
<b>Session 17</b>	
11:30-11:50	Satinder Kumar Sharma, IIT Mandi, India
11:50-12:10	<b><i>Solution based patterning approach in Chalcogenide Glasses: Challenges and opportunities</i></b> Prabhat Dwivedi, IIT Kanpur, India
12:10-12:30	<b><i>The kinetic modifications to hydrogen storage materials using catalysts: current state of art</i></b> Ankur Jain, Hiroshima University, Japan
12:30-12:40	<b><i>Flow synthesis of Polyacrylamide (PAM) gel beads using microfluidic platform</i></b> Nirvik Sen, BARC, DAE (Abstract ID: 817)
12:40-12:50	<b><i>Synthesis and Characterization of TATB based energetic nanocomposites materials and its performance study</i></b>

	H.B. Panda, I.O.F.S., Govt. of Odisha, India (Abstract ID: 765)
12:50-13:00	<i>Investigation of gas sensing properties of flower-like ZnO nanostructure synthesized by hydrothermal method</i> Sonalika Agarwal, MNIT Jaipur, India (Abstract ID: 907)
<b>13:00- 14:00</b>	<b>Lunch Break</b>
<b>Session 18</b>	
14:00-14:20	<i>SAXS Studies of Aligned CNT/Polymer Nano-composite Membranes</i> Prof. Y. K. Vijay, VGU, Jaipur India
14:20-14:40	<i>Proton Gzejepegig"Ogodtepgu&lt;"U{pvjguku"cpf"kvÍu"Crnkecvkqpu</i> Vaibhav Kulshrestha, CSMCRI, Bhavnagar, India
14:40-15:00	<i>Microporous Polymer Hydrogels for Drug-Delivery Application</i> Kamlesh Kumar, CSIR-CSIO, Chandigarh, India.
15:00-15:20	<i>Soft magnetic materials for magnetic refrigeration</i> Ajit Kumar Patra, Central University of Rajasthan, India
15:20-15:30	<i>Investigation of Photodegradation of Organic Dyes Using TiO2 Nanoparticles</i> Yogita Kumari, MNIT Jaipur, India (Abstract ID: 745)
<b>15:30- 15:45</b>	<b>Coffee Break</b>
<b>15:45- 16:30</b>	<b>Closing Ceremony Award Presentation</b>

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## Poster Presentations

13<sup>th</sup> December 2018

Venue: MNIT, Jaipur

S. No.	Abst ract ID	Name	Title
1	103	SAMEER KUMAR	<i>Dynamics of Particle moving on one dimensional deterministic Lorentz Lattice Gas</i>
2	106	NASHIT JALAL	<i>Studying the effect of mutations on the motion of Kinesin motors by using generalized ensembles</i>
3	108	PAYEL DOWARI	<i>Multiple cross-linking strategy to form size tunable bio-polymer with efficient cell adhesion and proliferation property</i>
4	110	V C BHARATH SABARISH	<i>Optical Properties of Gamma Irradiated TGS Crystals by Sankaranarayanan Ç Ramasamy (SR) Method</i>
5	121	BALAJI	<i>Protein-oil-water Langmuir isotherm adsorption study at air-water</i>

		DHOPTÉ	<i>interface and electrochemical impedance analysis</i>
6	204	TANMAY GUPTA	<i>Molecular Dynamics Simulation of Polymer-Graphene Nanocomposite</i>
7	206	UMMEN SABU	<i>Development of biomorphic hydroxyapatite using eggshell membrane as bio-template</i>
8	301	SASMITA MAJHI	<i>Investigating antibacterial activity and mechanical behavior of antimicrobial peptide (AMP) tethered stainless steel SS 316L</i>
9	303	RANAJIT MONDAL	<i>Patterns of Dried Drops Dictated by Curvature Driven Interfacial Particle Transport</i>
10	304	NARENDER	<i>Transport of Brownian particles in the two-dimensional asymmetric channel</i>
11	306	ISHA MALHOTRA	<i>Reversible aggregation of patchy colloidal particles leading to formation of bundles and crystals</i>
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13	310	GANESHULA PRASANTH	<i>Experimental investigation of sedimentation of non-spherical colloidal dispersions.</i>
14	312	P LOGESH KUMAR	<i>Does gravity affect patterns formed by drying drops containing colloids?</i>
15	318	PRADIP SINGHA	<i>Liquid Marble (LM) mediated assembly and disassembly of microparticles at a water surface: Investigation on the role of surface tension of the core liquid of the LM</i>
16	322	SONALI GORE	<i>Using molecular simulations to rationally design smart adsorbents to remove hardness of water for washing applications</i>
17	325	SURITA BASU	<i>Effect of graphene nanoparticles embedded in thin liquid film</i>
18	330	MEENAXI SHARMA	<i>Stability and Slippage of Aqueous Drops on Lubricating Fluid Coated Slippery Surfaces</i>
19	332	BIDISHA BHATT	<i>Effect of Surface Roughness on the Resulting Wettability</i>
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22	409	SWARAJ VIDYASAGAR DEODHAR	<i>Spreading of oil on aqueous surfactant solutions containing surface active particles</i>
23	413	DR. LEISHANGTH EM PREM KUMAR	<i>Role of energy polydispersity on the Kob-Andersen binary mixture Lennard-Jones glasses</i>
24	502	MADHU TOSHNIWAL	<i>Computational Method of Evaluation of Drug Likeness of Biologically Active Heterocyclic Compounds</i>
25	503	SHANKHA BANERJEE	<i>Active Pharmaceutical Ingredient (API) Based Ionic Liquids (ILs): Characterization and in vitro Assessments</i>
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33	732	VIDYA V M	<i>The Linear, Non-Linear Optoelectronic Properties and Reorganization Energies of Functionalized D- -A star shaped Triazine Derivatives: A DFT Study</i>
34	735	VIJAY LUXMI	<i>Rapid synthesis of pure-WO<sub>3</sub> and M-WO<sub>3</sub> (M=Fe, Gd) reusable visible light nanophotocatalyst</i>
35	738	RADHE SHYAM	<i>Ion beam modification of potassium sodium niobate thin films grown by RF magnetron sputtering</i>
36	741	DEVYANI SHUKLA	<i>Fluorescence-based detection of malachite green using carbon dots derived from Tulsi leaves</i>
37	753	RAHUL SINGH	<i>On modal analysis of axially functionally graded material beam under hygrothermal effect</i>
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42	804	SUGANYA SIVALINGAM	<i>Synthesis of a Novel Supramolecular Organogel: Superhydrophobic and Switchable Luminescence under Mechanical force</i>
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51	1010	BHARTI	<i>Computer simulation study of melting in two-dimensional liquid crystalline systems</i>
52	1103	SHATRUDHA N PALSANIYA	<i>Preparation and characterization of MnO<sub>2</sub>/rGO/PANI nanocomposite and application of symmetric supercapacitor</i>
53	1114	PRERNA SINHA	<i>High performance supercapacitor based on human hair derived chemically activated heteroatom doped porous carbon</i>
54	1119	MALAY KRISHNA MAHATO	<i>Photophysical investigation of excited state interaction between CdTe and Graphene Quantum dots</i>
55	1124	PRAVEEN KUMAR	<i>Rare Earth Substitution driven Structural, Conduction and ferroelectric behavior of Bi<sub>0.84</sub>Y<sub>0.16</sub>FeO<sub>3</sub> (Y = La, Sm, Gd) NPs</i>
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58	1137	SOVESH MOHAPATRA	<i>Investigation of Charge Generation and Charge Carrier Mobility in CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite Solar Cell by GPVDM Simulation</i>
59	1139	MUNESH RATHORE	<i>Effect of Ionic liquid [BMIM] [BF<sub>4</sub>] on electrical transport in Li<sub>2</sub>SO<sub>4</sub> and AgI ionic system</i>
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73	1514	AVISHEK KUMAR	<i>Enhancement of Protein Stability on Patterned Surfaces</i>
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87	1803	NAVEEN NARASIMHACHAR JOSHI	<i>Oketqyxcg"cuukuvgf."Éuqhv"u{pvjgukuĒ"qh"pcpqet{uvcmkpg"cpf"</i> <i>superparamagnetic CoO</i>
88	1808	SARIKA SINGH	<i>Multi-Functional Growth of Dendritic Magnetic Nanocarrier for Targeted Drug Delivery</i>
89	2002	ANAND KUMAR SAHU	<i>Cholesterol free niosome: preparation, characterization and microenvironment study</i>
90	2003	PREETIKA RASTOGI	<i>A comparative study of thermodynamic stability of emulsions using diesel surrogate and diesel as fuels</i>
91	2005	KALAISELVI A	<i>Biocidal activity of Indian spices essential oils mediated biogenic nanoparticle against mosquito larvicidal activity</i>
92	2006	SAYANTAN HALDER	<i>Probing the -cyclodextrin Induced Refolding of Protein already Unfolded by Gemini Surfactants with Different Spacer Groups using the FRET method</i>

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