



Fifth International Conference on  
**“Nanotechnology for Better Living”**

**From 7-11 april,2019**

**Programme of ICNBL-19**

*Jointly organized by NIT Srinagar and IIT Kharagpur*

JOINT INITIATIVE OF NIT SRINAGAR AND IIT KHARAGPUR

**VENUE: SKUAST Shalimar Srinagar**

## WELCOME TO ICNBL-2019

**ICNBL-2019** marks the 5<sup>th</sup> Edition of International Conference on Nanotechnology for Better Living (ICNBL-19). The objective of the summit is to have in-depth discussions on the fundamental sciences and applications of Nanostructured Materials in diverse areas ranging from chemical, environmental, agricultural and biological applications. **NBL** is also aimed to provide a platform for the young scientists across the globe for stimulating deliberations which may culminate into collaborative research atmosphere mutually beneficial to all of us. These collaborations in turn will boost not only economic strength but also materialistic prosperity of the society.

Most of the industries have already begun to establish a significant share in the global market and are expected to exert a major beneficial impact on every sphere of life. Future developments in nanotechnologies will need an understanding and interdisciplinary approaches. Thus, a nursery of future researchers with an understanding of the physical, biological, chemical and technological aspects will contribute to new solutions for the major challenges facing the world.

Five days programme includes **25 Invited talks** by a group of world leaders in advanced materials, who will address topics dealing with research that have the potential for the greatest impact on developing clean and renewable forms of energy, new methods of fabrications, nanopesticides used in agriculture, nanomedicine for improved diagnostics and a clean atmosphere. In addition to lectures, **50 students' talks and five poster sessions** of more than **250 poster** presentations are planned as an integral part of conference programme.

The synergism produced by bringing together more than **350 researchers and scientists from around 10 countries and 22 states of the country** with research interests in diverse areas is expected to enhance scientific collaborations which may take the nanotechnology a step closer to realizing its enormous potential for the betterment of mankind. The impact of this scientific gathering will provide an ample opportunity to young students to learn about new inventions in this new and interdisciplinary field. In addition, the endeavour will put the state of Jammu and Kashmir into scientific map of the country and beyond.

I am optimistic that the scientists and scholars will enjoy the pleasant weather, and stimulating scientific sessions **in-the Paradise.**

**Firm to make the endeavor a grand success!**

**Yours Sincerely**  
**(PROF. P. BANERJI & DR. SHAH M A)**

# INTERNATIONAL CONFERENCE ON “Nanotechnology for Better Living”

**Day 1- Sunday 7 April 2019**

**(Tutorials + Inauguration)**

<b>Registration in SKUAST, Shalimar Srinagar (Registration Team headed by: Dr. Hamida)</b>			
Session S1	<b>Conference tutorials: Delegates+ Students+ other invited guests:</b>		
	<b>Time</b>	<b>Name &amp; Affiliation</b>	<b>Title of the talk</b>
T-1	10:00am to 10:10am	Dr. M A Shah	Better Materials for Better Life
T-2	10:20am to 11:00pm	<b>Prof. (Dr) Neeraj Khare</b> IIT Delhi	<b>Nanostructures for Novel Applications</b>
<b>T-3</b> (SponsoredD SIR)	11:00am to 12:00pm	<b>Prof. Pallab Banerji</b> Head, Materials Science Center, IIT Kharagpur	An Introduction to Nanotechnology: Materials & Devices (Tutorial)
T-4	12:00pm-12:30pm	<b>Dr. Saifullah, Lone</b> College of Nanoscience, Department of Mechanotronics, Pusan National University, South Korea	Surface Area to Volume Ratio: An Exciting Phenomena in nanotechnology
T-4	12.30pm to 01.00pm	<b>Dr. M. Chalkoo</b> GM C Srinagar	Medical Sciences in Laparoscopy
	12:30pm to 02:00pm	LUNCH	
<b>S2</b>			
<b>INAUGURATION CEREMONY OF ICNBL-19</b>		<b>From 2:30 PM</b>	
P-1.	4:00pm	<b>Prof. (Dr) Kholmurad Khasanov</b> Mikhael Lomonosov, Moscow State University, Russia	Nanophysics photon radiation stimulated by nuclear vibration
P-2	4:30pm	<b>Prof. (Dr) Neeraj Khare</b> IIT Delhi	

**Day 2- Monday,**

Session Chairman: Prof. G A Harmain  
 Coordinator of the day- Dr. Hamida

**8<sup>th</sup> April, 2019 (Morning)**

Co-Chairman: Prof. N C Das  
 Co-Coordinator- Dr. Shahnaz

**Technical Session 3:****Synthesis & Characterization of Nanomaterials**

<b>Keynote Speakers</b>					
Session	Paper ID	Time	Title of Paper/Poster	Presenting Author	Author's Affiliation
K-1	NBL-01	9.30am-9.45am	Palm oil based nano emulsion as drug carrier for pharmaceutical injections	Prof. (Dr.) Ahmad Fuad Shamsuddin	Universiti Kuala Lumpur Royal College of Medicine Perak Malaysia (UniKL RCMP)
K-2	NBL-02	9.45-10:00am	Polymeric nanocomposites/nanomaterials for electromagnetic radiation shielding: a major challenge of environment pollution to health protection	Prof. (Dr) Narayan Ch. Das	Rubber Technology Centre, IIT Kharagpur, Kharagpur, India
K-3 (Sponsored DSIR)	NBL-302	10:00am-10:15am	Multifunctional Nanoelectronics Devices: Design and Applications	Prof. (Dr.) Sajad A. Loan	Department of Electronics and Communication Engineering, JMI
<b>Invited</b>					
I-1	NBL-04	10:15am-10:25am	Graphene molybdenum oxide polyaniline based ternary nano composite material for super capacitor application	Prof. (Dr) K. Venkateswara Rao	Centre for Nanoscience and Technology, IST, JNTUH, Hyderabad, India
I-2	NBL-05	10:25am-10:35am	Effect VO <sub>2</sub> <sup>+</sup> ion on EPR and optical band gap of calcium oxychloro Bismuth Borate Glasses	Prof. (Dr) Satish Kumar Khosa	DCR University of Science and Technology, Murthal, Haryana.
I-3	NBL-75	10:35am-10:45am	A Cost- Effective Realization of Exciton-Polaritons in Single-Crystalline Microplates of a Layered Metal- Organic Framework.	Dr. Dileep Kotiwal	National University of Singapore, Singapore.
I-4	NBL-124	10:45am-10:55am	Nano-structured polymersomes for drug delivery applications.	Dr. Anitha C. Kumar	Department of Chemistry, Acharya Nagarjuna University, Guntur-522510.

I-5 (Sponsored DSIR)	NBL-07	10:55am-11:05am	OSIDs as Materials for Energy Harvesting.	Dr. S. Hussain	UGC-DAE CSR, Kalpakkam
<b>11:05am -11:25am Session Tea</b>					
<b>ORAL</b>					
O-1	NBL-68	11:25am	Understanding the Enhanced Photocatalytic Activity in CdS/Ta <sub>3</sub> N <sub>5</sub> Hetero-structure Nanocomposites for Water Splitting and H <sub>2</sub> Evolution.	Dr. Bilal Masood Pirzada	Institute of Nano Science and Technology (INST), Mohali-1600062.
O-2	NBL-12	11:25am	Chemistry of Atomically Precise Metal Nano Cluster co-crystals: An insight.	Dr. Wakeel Ah. Dar	Department of Chemistry, IIT Madras
O-3	NBL-09	11:25am	Fungal Mediated Synthesis, Structural Characterization and Antimicrobial Activity of Silver and Gold Nanoparticles.	Dr. Irshad A. Wani	Department of Chemistry, Govt. Degree College Anantnag, J&K, India-192101.
O-4	NBL-14	11:25am	One Pot Synthesis of Graphene Oxide Quantum Dot-Like Structure with Pencil Graphite	Afsar H.Rizvi	Interdisciplinary Nanotechnology Centre, Aligarh Muslim University.
O-5	NBL-15	11:25am	Synthesis and Characterization of Electroactive $\beta$ -PVDF with BaTiO <sub>3</sub> Nanocomposites.	Gitanjali H. Tabhane	Department of Physics, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur-440010 India.
O-6	NBL-16	11:25am	Solvothermally prepared ZnWO <sub>4</sub> nanoparticles-based supercapacitor	Vinayaraj S	NIT Karnataka, Surathkal, India
O-7	NBL-17	11:25am	Novel synthesis of NiCo <sub>2</sub> S <sub>4</sub> -GCN (graphite C <sub>3</sub> N <sub>4</sub> ) composite for high performance supercapacitor application	Yogesh Kumar Sonia	Malaviya National Institute of Technology, Jaipur, India
O-8	NBL-18	11:25am	Exchange interaction in CoFe <sub>2</sub> O <sub>4</sub> -SrFe <sub>12</sub> O <sub>19</sub> nanocomposites	Kalyani Dhabekar	Visvesvaraya National Institute of Technology, Nagpur, India
O-9	NBL-19	11:25am	Synthesis and characterization of Vertically aligned 1-D nanostructured CuO/Cu <sub>2</sub> O hetero-junction on passivated Cu template for solar water splitting	Iqra Riyaz Hamdani	IIT New-Delhi, India

O-10	NBL-08/P	11:25am	Characterization and Synthesis of Nanocomposite Thin Films of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> (nanoparticles) and NAFION (polymer) for Bio-Sensing Applications.	Dr. Indra Sulania	Inter University Accelerator Centre, New Delhi
O-11	NBL-81	11:25am	Denitrification of actual wastewater by nano coated dimensionally stable anodes (Ti/RuO <sub>2</sub> ).	Rohit Chauhan	Department of Chemical Engineering, Indian Institute of Technology Roorkee, Uttarakhand, India-247667.

**01:30PM-2:30PM**

**LUNCH**

**12:40pm - 02:40pm**

**Poster**

P-1	NBL-21	12:40pm	Magnetoelectric Effect in Erbium Doped BaTiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> Particulate Multiferroic Composites.	Mehraj ud Din Rather	Department of Physics, University of Kashmir, Srinagar-190006. India
P-2	NBL-23	12:40pm	Montmorillonite based nanomaterials for the degradation of pesticides in water: An overview	Aabid Hussain Bhat	Department of Chemistry, national Institute of Technology, Srinagar-190006, J&K, India
P-3	NBL-24	12:40pm	Study of Magnetic Properties of Iron Doped of Manganese Oxide Nanoparticles: Growth and Characterization.	S. Shabir Bhat	Department of Physics, Sam Higginbottom University of Agriculture Technology & Science, Allahabad, U.P.
P-4	NBL-25	12:40pm	Synthesis and characterization of NiO nanoparticles synthesized through chemical precipitation method	Veronica Deekala	
P-5	NBL-26	12:40pm	Synthesis & Characterization of gold nanoparticles from Delphinium cashmeanium & its anti-cancer & anti-bacterial activity.	Mohammad Ashaq sofi	Department of Bio-medical Engineering, Sathyabama Institute of Science & Technology, Chennai-600500.
P-6	NBL-27	12:40pm	Sol-gel based synthesis, Characterization of CuO nanoparticles & its Applications.	Arun Kumar	Central University of Haryana, Mohindargarh-123031, India.
P-7	NBL-28	12:40pm	Myco-synthesis of nanoparticles.	Romana Farooq	Department of Botany, University of Kashmir.
P-8	NBL-29	12:40pm	SrZrO <sub>3</sub> /CdS Heterostructure Nanocomposite with Improved Photocatalytic and Dielectric Properties.	Umar Farooq	Department of Chemistry, Jamia Millia Islamia (New Delhi).
P-9	NBL-30	12:40pm	On-off Switching in the grafted nanopores in polymeric Track-Etched Membranes for selective filtration.	Safiya Nisar	Amity Institute of Applied Science, Amity University, Noida, India.
P-10	NBL-31	12:40pm	Two-step Novel Synthesis of Mn-Ni-Co-Oxide (MNCO)@g-C <sub>3</sub> N <sub>4</sub> Ribbon-Like Hetero nano- arrays for Supercapacitor Application.	Nemi Chand Mawari	Malaviya National Institute of Technology, Jaipur, India
P-11	NBL-32	12:40pm	SnO <sub>2</sub> /ZnWO <sub>4</sub> nanocomposite for supercapacitor application.	Brijesh K	NIT Karnataka, India
P-12	NBL-33	12:40pm	Electrical studies of PANI and PANI/CdSe nanocomposites for	Rashmi Sing	Jiwaji University Gwalior, India

			diode applications		
P-13	NBL-34	12:40pm	Studies on dielectric properties and structural analysis of blend polymer PVP-PVA thin films for energy storage/conversion devices application	Mohd Sadiq	Jamia Millia Islamia University, India.
P-14	NBL-35	12:40pm	Green synthesis of bismuth molybdate and its composite for enhanced photocatalytic applications	Mohit Yadav	Amity University Noida, Uttar Pradesh, India
P-15	NBL-36	12:40pm	Erbium doped TiO <sub>2</sub> photo anodes for efficient dye sensitized solar cells	Navjyoti	Guru Nanak Dev University, Amritsar
P-16	NBL-37	12:40pm	In-situ synthesis and electrochemical activity of Carbon coupled Mo <sub>2</sub> C/Mo <sub>2</sub> N nanohybrid as an efficient HER application.	Rajinder Kumar	Institute of Nanoscience & Technology, Mohali-160062, Chandigarh, India
P-17	NBL-38	12:40pm	Textile industrial dye removal using green synthesized iron oxide nanorods.	Mohd Yousuf Rather	Department of Ecology and Environmental Science, Pondicherry University, Puducherry, India-605014.
P-18	NBL-40	12:40pm	Synthesis and Characterization of Zinc ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ) nanoparticle by using Ball Mill Technique.	Ishfaq Ahmad Parray	Aligarh Muslim University, UP-202002.
P-19	NBL-41	12:40pm	Synthesis and characterization of copper-piperic acid complex, a novel MOF synthesis.	Mehraj ud Din Bhat	Department of Chemistry, University of Kashmir, Hazratbal, India-190006.
P-20	NBL-42	12:40pm	Synthesis, Characterization and Application of Multifunctional DyCrO <sub>3</sub> Nanoparticles Prepared by Low Temperature Reverse Micellar Route.	Amir Mehtab	Nanochemistry Laboratory, Department of Chemistry, Jamia Millia Islamia, New Delhi, India-110025
P-21	NBL-43	12:40pm	Synthesis of Bimetallic Ag@CuNPs: Catalytic Reductive Activity Against Rhodamine B.	Ommar Bashir	Department of Chemistry, Jamia Millia Islamia, New Delhi, India-110025
P-22	NBL-44	12:40pm	Hydrothermal assisted synthesis, characterization and application of boehmite nanostructures.	Misba Jan	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
P-23	NBL-45	12:40pm	Simple Synthesis of Large Graphene Oxide Nano-sheets via Electrochemical Method Coupled with Oxidation Process.	Navneet Kumar	Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667-India
P-24	NBL-46	12:40pm	Post synthesis Mn-Doping in CsPbI <sub>3</sub> Nanocrystals to stabilize black perovskite phase.	Wasim J. Mir	Department of Chemistry, IISER, Pune-411008, India.
P-25	NBL-47	12:40pm	N, S doped carbon dots- Au nanocomposites for visible light photocatalytic reduction of 4-nitrophenol.	Imran Mondal	Department of Chemistry, Indian Institute of Technology Kharagpur, West Bengal India-721302.
P-26	NBL-48	12:40pm	Selective Oxidation of Styrene to Benzaldehyde Using Aluminium Doped Nano Barium Hexaferrite Synthesized by Sol-Gel Auto-Combustion Method.	Mukesh Suthar	Department of Ceramic Engineering, IIT(BHU).
P-27	NBL-49	12:40pm	Photo Redox Catalysed Organic Synthesis: Bisindoles and $\beta$ -Carbolines.	Zakir Hussain	Department of Chemistry, University of Kashmir, 190006-India
P-28	NBL-50	12:40pm	Selective oxidation of P-Nitrotoluene catalyzed by CeO <sub>2</sub> nanocubes under mild conditions.	Farha Naaz	Nano chemistry laboratory, Department of chemistry, Jamia Millia Islamia, New Delhi, India-11025.
P-29	NBL-51	12:40pm	Design of process to stabilize metal -Zirconia hetrostructures and	Krishna Kumar	Institute of Nano science and

			their application	Yadav	Technology, Mohali, India
P-30	NBL-52	12:40pm	Growth and Characterization of ZnO Nanorods for optoelectronic application	M. Mostafa	University of Dhaka, Dhaka, Bangladesh
P-31	NBL-53	12:40pm	Synthesis and Primary Characterization of MgO Nanoparticles doped with Transition metals	Ishtihada Islam	Department of Physics, Jamia Millia Islamia, New Delhi-110025, India
P-32	NBL-54	12:40pm	Fabrication of Vertically Aligned TiO <sub>2</sub> Nanorods Using Hydrothermal Method as Photoanodes for Dye Sensitized Solar Cells.	Vipole Bhullar	Department of Physics, Guru Nanak Dev University, Amritsar-143005.
P-33	NBL-297	12:40pm	A multifunctional magneto-fluorescent nanocomposite for visual recognition of targeted cancer cells	Kaisar Ahmad Bhat	Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur (H.P.) 176061, India
P-34	NBL-281	12:40pm	Removal of Pharmaceuticals from Waste Water Using Titanium Dioxide Nanoparticles	Aarif H Shah	Department of Chemical Engineering, NIT Srinagar
P-35	NBL-74	12:40pm	Selective and sensitive detection of acraldehyde in a mixture of aliphatic aldehydes using N and S- doped carbon dots as a unique fluorescent probe.	Manisha Shaw	Department of Chemistry, Indian Institute of Technology Kharagpur, West Bengal India-721302.
P-36	NBL-77	12:40pm	Influence on Temperature Variation, Tool-wear and Tool-life with respect to cutting speed on Diamond Coated WC-Co Inserts in the Machining of Al-15%SiC Alloy.	Kaleem Ahmad	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
P-37	NBL-78	12:40pm	Machine Translation of English text to Kashmiri Text.	Neeha Ashraf	Department of Computer Science, University of Kashmir, Srinagar, India-190006.
P-38	NBL-79	12:40pm	Machine Learning Based Data Fusion Techniques in Wireless Sensor Networks.	Aurmella Rohie	Department of Computer Science, University of Kashmir, Srinagar, India-190006.
P-39	NBL-83	12:40pm	High performance lanthanide doped semiconductor gas sensor for alcohol detection.	Manreet Kaur	Department of Physics, Guru Nanak Dev University, Amritsar-143005
P-40	NBL-84	12:40pm	Probing the role of (Gd-Co) Co-doping on structural and thermal behavior of LaFeO <sub>3</sub> .	Samiya Manzoor	Department of Physics, Aligarh Muslim University, Aligarh, 202002-India.
P-41	NBL-85	12:40pm	Cadmium (II) removal from aqueous systems by the use of nZUI functionalized high silica zeolitic particles.	Shubhangi Madan	Amity Institute of Applied Science, Amity University, Noida, India.
P-42	NBL-86	12:40pm	Application of Nano Silica and GGBS on bond strength of ternary concrete.	Dhruv Shah	Department of Civil Engineering, Pandit Deendayal Petroleum University, Gandhinagar India
P-43	NBL-87	12:40pm	Evaluation and application of composite material (MMC) using Rice husk Reinforcement.	Rayees Ayoub	Department of Mechanical Engineering, SSM College of Engineering & Technology Baramulla, India-191111.
P-44	NBL-88	12:40pm	Performance combustion and emission characteristics of 3-Cylinder SI Engine fuelled conventional gasoline, Ethanol blends and Micro-emulsion used as an Alternative Fuel.	Ufaith Qadri	Department of Mechanical Engineering, SSM College of Engineering & Technology Baramulla, India-191111.
P-45	NBL-89	12:40pm	Structural analysis of three different truss bridge subjected to Standard IRC Class-A loading using FEM Tool.	Aqib Hussain Mir	Department of Mechanical Engineering, National Institute of Technology



P-46	NBL-90	12:40pm	Carbon Dioxide Capture By Nanomaterials: A Review.	Asrar Rahmat Jan	Srinagar, India-190006. Department of Chemical Engineering, National Institute of Technology, Srinagar-
P-47	NBL-91	12:40pm	Experimental Analysis Carried out on various Parameters of Flow through Micro-channels.	Misba Jan	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
P-48	NBL-92	12:40pm	Nitrogen- Phosphorous Doped Carbon Dots as a Photocatalytic material for Reduction of Toxic Cr (VI).	Deepika Sain	Department of Chemistry, Malaviya National Institute of Technology, Jaipur- 302017.
P-49	NBL-235	12:40pm	Effect of Solubilization and Co solubilization of PAHs in Different Surfactant Micelles on their Fluorescence Resonance Energy Transfer ability.	Dr. Uzma Ashraf	Department of Higher Education, Jammu and Kashmir.
P-50	NBL-94	12:40pm	Visualization and Creative Technique in Machine Learning.	Aamir Hamid Rather	Department of Computer Science, University of Kashmir, Srinagar, India- 190006.
P-51	NBL-96	12:40pm	Microwave irradiated high stability ZnWO <sub>4</sub> electrode for supercapacitor application	P C Dhanush	NIT Karnataka, Surathkal, India
P-52	NBL-97	12:40pm	Study on efficient hetero-junction photo electrode formation by band aligned TiO <sub>2</sub> and $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanostructures	Swati Dhua	IIT Madras, Chennai, India
P-53	NBL-98	12:40pm	Sustainable resource derived polymeric nanocomposite coatings alternative to petro based toxic products for anticorrosion applications	Mohammad Irfan Bakshi	Jamia Millia Islamia, New Delhi, India
P-54	NBL-99	12:40pm	Nanotechnology emerging as a future of Photovoltaic solar cells	Nishtha Joshi	ITM University Gwalior MP India
P-55	NBL-100	12:40pm	Bandgap tuning in double perovskite La <sub>2</sub> NiMnO <sub>6</sub> by Sr doping for Potential applications in solar cells	Shah Aarif Ul Islam	Department of Physics, NIT Srinagar, India
P-56	NBL-232	12:40pm	Impedance Spectroscopic Properties and Dielectric Measurement of Iron Substituted] Silicate Glasses.	Prof. (Dr) Rajesh Parmar	Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat- 131039 India

### Keynote Speakers

K-1	NBL-73	2:45pm-3:00pm	Numerical Investigation of A Hybrid (Cu-Alumina) Nanofluid Cooled Double Pipe Gas Cooler For A Trans-Critical CO <sub>2</sub> Refrigeration System	Mani Sankar Dasgupta	Department of Mechanical Engineering, Birla Institute of Technology and Science, Pilani-333031.
K-2 (Spo	NBL-309	3:00pm-3:15pm	Nature Driven Spider Silk an Efficient Bio-piezoelectric Green Energy Harvester	Prof. B B kathua	Materials Science Centre, Indian Institute of Technology Kharagpur, India

nsor edD SIR)					
K-2	NBL-57	3:15pm- 3:30pm	Free vibration study of laminated carbon nanotube Reinforced composite shell panels.	Prof. (Dr) Shuvendu Narayan Patel	Department of Civil Engineering, BITS Pilani, Pilani, Rajasthan, India-333031.
<b>3:30pm-3:50pm</b>		<b>Session Tea</b>			
<b>ORAL</b>					
O-1	NBL-95	3:50pm	Magnetic properties of intermetallic compound.	Abeer E. Ally	Department of Basic Science, Higher Institution for Engineering and Technology.
O-2	NBL-66	3:50pm	A Mathematical Analysis carried out on the study of compatibility and strength of synthetic Diamond Coatings Deposited on WC-6%Co Substrate.	Dr. Kaleem	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
O-3	NBL-67	3:50pm	Nanoparticles as colorimetric sensor for analysis of Pesticides.	Dr. Jignesh kumar	Department of Chemistry, National Institute of Technology, Srinagar-190006.
O-4	NBL-69	3:50pm	Review Paper: Application of Nanotechnology in Smart Civil Structures.	Er. M. Imran Shah	SS Tech Heights LLP, Construction Division Gurugram.
O-5	NBL-70	3:50pm	Developed Aqueous synthesis of CdSe Quantum Dots: A Greener Method.	J. M Baruah	Synthetic Nano Chemistry Laboratory, North Eastern Hill University, Shillong- 793022, India.
O-6	NBL-71	3:50pm	Morphology dependent Antioxidant property of CuO Nanostructures.	Md. A.S Salam	Department of Chemistry, Indian Institute of Technology Kharagpur, West Bengal India-721302.
O-7	NBL-72	3:50pm	Structural and Photocatalytic Study of La, Ce Co-doped ZnO Nanoparticles.	Syed Irtiq	Department of Metallurgy and Materials Engineering, NITSrinagar,190006
O-8	NBL-11	3:50pm	Solubilization of Pyrene by Nano Carriers of Anionic Polymer-Cationic/ Nonionic Surfactant: Effect of Polymer Concentration.	Dr. Rohi Masrat	Department of Chemistry, National Institute Technology, Srinagar, 190006- India.
O-9	NBL-60	3:50pm	Enhancement of the performance of c-SWCNT Based Covalently Functionalized Potentiometric Aptasensors by Electrophoresis Technique.	Prof. (Dr) Mohammad Al Mamun	Department of Chemistry, Jagannath University, Dhaka 1100, Bangladesh.
O-10	NBL-76	3:50pm	Nanostructured Metallic Thin Films for Sensing Applications.	Pushkar Joshi	Department of Chemical Engineering, Indian institute of Science, Bangalore- 560012.
O-11	NBL-80	3:50pm	Structural and electrical Characterization of SrCeO <sub>3</sub> and Sr <sub>2</sub> CeO <sub>4</sub> .	Dharmendra Yadav	Department of Physics, Indian institute of Technology (BHU), Varanasi-221005.
O-12	NBL-82	3:50pm	Band Pass Filter Behaviour of Metal Nanocomposites	Arnab Kumar	Department of Electronics and

				Sarkar	Communication Technology, Gauhati University, Guwahati-14
O-13	NBL-39	3:50pm	Reverse pulse electrodeposition of copper nanoparticles: CO <sub>2</sub> RR on these surfaces.	Nusrat Rashid	Department of Chemistry, Indian Institute of Delhi, New Delhi.
O-13	NBL-10	3:50pm	Hydrogen sensing response of platinum doped zinc oxide.	Dr. Anita Hastir	Department of Physics, Guru Nanak Dev University, Amritsar-143005.
O-14	NBL-318	3:50pm	Preperation and Characterization of single and bilayer PZT-Co ferrite composites	Rubiya Samad	<i>SSRL, Department of Physics, University of Kashmir, Hazratbal Srinagar-190006</i>

## Day 3 (Tuesday)

Session Chairman: Prof. N A Sheikh  
Coordinator of the day- Dr. M A Rather

9<sup>th</sup> April 2019, (Morning)

Co-Chairman: Prof. A K Das  
Co-Coordinator- Dr. Saifullah

### **"International Conference on Nanotechnology for Better Living" NBL-2019 Technical Session 3:Nano-biotechnology & Nano-Medicine**

**"Nanotechnology in medicine is going to have a major impact on the survival of human race" ---Bernard Marcus**

<b>Keynote Speakers</b>					
K-1 (SponsoredD SIR)	NBL-129	09:30am - 09:45am	Creation of Nano-structured Oxide Layers Through Anodization on Laser-Remelted Ti6Al4V Surface for Improvement of Its Biofunctionalities	Prof. Partha Saha	Mechanical Engineering Department , Indian Institute of Technology Kharagpur
K-2	NBL-03	9:45am-10:00am	Inclusion of Spin-orbit Coupling in Recursion method.	Prof. (Dr) Mesbahuddin	Department of Physics, University of Dhaka, Bangladesh.
K-3	NBL-06	10:00am-10:15am	Nanomaterial for Multifunctional Properties and Applications.	Prof, (Dr) Tokeer Ahmad	Nano-chemistry Laboratory, Department of Chemistry, Jamia Millia Islamia, New Delhi, India-110025
<b>Invited</b>					
I-1	NBL-119	10:15am-10:25am	Silver Nanoparticles (AgNps) as Nanobullet: Applications	Prof. (Dr) Vandana Rathod	Department of Microbiology, Gulbarga University Kalaburagi.
I-2	NBL-121	10:25am-	Enhanced anticancer effect of bovine serum albumin coated	Dr.Shahnaz	Universiti Kuala Lumpur Royal

		10:35am	iron oxide nanoparticle against osteosarcoma MG-63 cell lines.	Majeed	College of Medicine Perak Malaysia (UniKL RCMP)-30450
I-3	NBL-123	10:35am-10:45 am	Spectroscopic Study of Human Serum Albumin Protein Interacted with Amino Acid Based Gemini Surfactant.	Dr. Irfan Hussain Lone	Department of Chemistry, Taibah University, Saudi Arabia.
I-4	NBL-58	10:45am-10:55am	Cation exchanged hybrid semiconductor nanowires for application in photovoltaics	Prof. (Dr) Ritun Chakraborty	University of science and technology, Meghalaya, India
I-5	NBL-22	10:55am-11:05am	Nanotechnology for Better Living in Future	Prashanta Kumar Pal	Institute of Biomedical Education and Research, Mangalayatan University,
I-6	NBL-230	11:05am-11:15am	Technological Marvels of Soft Actuators and Robots	Nasreena Lone	Department of Materials Science & Engineering (MSE) Ulsan National Institute of Science & Technology (UNIST), South Korea
I-7	NBL-64	11:25am-11:35am	Polymer- Clay Nanocomposites: Preparations, Properties and Applications.	Dr. Manish Vashishtha	Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur-302017.
I-8	NBL-G	11:35am-11:45am	Properties of Nanomaterials	Dr. G N Dar	Department of Physics, University of Kashmir
<b>11:50AM-12:10AM Session Tea</b>					
<b>ORAL</b>					
O-1	NBL-125	12:10am	Nanotechnology in Biomedical Applications: A literature Exploration.	Dr. Mohd Yousf	Department of Chemistry, YMD College, M.D University, Nuh, Haryana- 122107, India.
O-2	NBL-126	12:10am	DNA-Nanotechnology: A new hope for better living!	Dr. Maroof Ahmed	Department of clinical Biochemistry, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
O-3	NBL-127	12:10am	Nanotechnology in Communication Engineering: Issues and Challenges	Ms. Ifat Rasheed	Govt. Polytechnic College, Shopian,
O-4	NBL-128	12:10am	Twisted Ribbon Structure Stabilized by C12 Helical turns in $\gamma/\alpha$ peptide.	Junaid-ur-Rehim	Academy of scientific and innovative research, New Delhi. iim.junaid@gmail.com
O-5	NBL-130	12:10am	Ionic Liquid mediated C-sp <sup>2</sup> /sp <sup>3</sup> -H cross dehydrogenative coupling of N-Heterocycles with Benzylamines.	Mohd Abdullaha	CSIR-IIM Jammu.
O-6	NBL-131	12:10am	N- Doped carbon dot as fluorescent probe for detection of cysteamine and multicolor cell imaging.	Dipanjan Samanta	Department of Chemistry, Indian Institute of Technology Kharagpur,

					West Bengal India-721302.
O-7	NBL-122	12:10am	Nanotechnology in treatment of rheumatoid arthritis	Dr. Sabeeha Shafi	Department of Pharmaceutical Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-
O-8	NBL-132	12:10am	Extracellular synthesis of stable silver nanoparticle by biosurfactant produced from Pseudomonas aeruginosa PU1 with antioxidant activities.	Younus Mohd	Department of Biotechnology, Pondicherry University, Pondicherry, India- 605014.
O-9	NBL-311	12:10am	Multi responsive supramolecular hydrogel with multishape memory effect: review	Arjumnd Shaheen	Department of Cemistry, University of Kashmir.
<b>1:10PM-2:10PM LUNCH</b>					
<b>12:50PM-2:50PM Poster</b>					
P-1	NBL-137	12:50pm	Distribution pattern population density and conservation by vegetative propogation of ulmus villosa in temperate conductions of Kashmir.	Ashiq Hussain Lone	Department of Biological Sciences, Sam Higginbottom University of Agriculture, Technology and Science Allahabad-211007, India.
P-2	NBL-138	12:50pm	Nutritional Deficiency, Peripheral Neuropathy-Diagnosis and Management: A Brief Review.	Saba Sabreen	Department of Pharmaceutical Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-3	NBL-140	12:50pm	Nanoparticle mediated LCS-1 delivery for the targeted therapy of BLM-defective colorectal cancer cells.	Anuradha Gupta	Department of Nanotherapeutics, Institute of Nano Science and Technology, Phase-X, Sector-64, Mohali-160062(Punjab), India.
P-4	NBL-141	12:50pm	Nanotechnology: A tool for the Diagnosis of Diseases.	Hinna Hamid	Department of Pharmaceutical Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-5	NBL-142	12:50pm	Nanotechnology: The emerging science in human health and medicine.	Khalid Bashir Dar	Department of clinical Biochemistry, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-6	NBL-143	12:50pm	Cancer therapy and Nanotechnology; a current perspective.	Aashiq Hussain Bhat	Department of clinical Biochemistry, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-7	NBL-144	12:50pm	Designer gels for advanced healthcare applications.	Pooja Sharma	Institute of Nanoscience and Technology, Habitat centre, Sector-64 Mohali, Punjab-160062, india.
P-8	NBL-145	12:50pm	Highly tunable supramolecular peptide hydrogels for biomedical applications.	Harsimran Kaur	Institute of Nanoscience and Technology, Habitat Centre, Sector-

					64, Phase-10, Mohali, Punjab-160062.
P-9	NBL-146	12:50pm	Utilization of Nanotechnology in conventional phyto-medicine: A promising green therapy.	Zahida Shah	Department of Pharmaceutical Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-190006.
P-11	NBL-147	12:50pm	Nano-medicine for Breast Cancer: The Current Approach to Meet the Therapeutic Demand.	Aadil Ahmad Sheikh.	School of Pharmaceutical Education and Research Jamia Hamdard, New Delhi-110062.
P-12	NBL-148	12:50pm	Nanotechnology: A Boon and New Revolution in Diagnosis and Treatment of Cancer.	Aabid Hussain Najar	Department of Clinical Biochemistry, Sher-i-Kashmir Institute of Medical Science, Soura, 190011.
P-13	NBL-149	12:50pm	Mem-behaviour of undoped and Cu-doped zinc sulphide nanocomposites with or without bacteria conjugation	Himadri Duwarah	Gauhati University, Guwahati, India
P-14	NBL-150	12:50pm	Transition Metal Complex of Chemically modified Osthole and Zinc Salt as effective antimicrobial agent.	Zubaid ul Khazir	Department of Chemistry, National Institute of Technology, Srinagar, 190006, India.
P-15	NBL-151	12:50pm	Biosynthesis of Gold Nanoparticles and study of its In-Vitro Cytotoxic Activity on HCT15 Human Colon Cancer Cell Line.	Arpita Dey	Department of Ecology and Environmental Science, Pondicherry University, Pondicherry, India-605014.
P-16	NBL-152	12:50pm	Electrochemical sensor by Immobilizing Haemoglobin over composite material based on polyaniline, MWCNTs and Araucaria Columnaris (Latex) for H <sub>2</sub> O <sub>2</sub> detection	Vineeta Goutam	Bineshnear Brahma Engineering College, Kokrajhar, Assaam-783370
P-17	NBL-153	12:50pm	Application of biopolymer based nano-emulsions containing anti-microbial anti-oxidant agents on shelf life of fresh cut fruits.	Sajad Mohd Wani	Department of Food Science & Technology, University of Kashmir, Hazratbal, Srinagar-190006.
P-18	NBL-154	12:50pm	Do variant forms of -108C/T Promoter region polymorphism of Para-Oxonasel (PONI) gene affects HDL, LDL & oxidant-anti-oxidant status in women with PCOS, case control study.	Humira Jeelani	Department of Clinical Biochemistry, University of Kashmir.
P-19	NBL-155	12:50pm	Synthesis of Bio- molecule capped MnO <sub>2</sub> nanoparticles and their application feasibility.	M.M Haque	Department of Physics, Jagannath University, Dhaka, Bangladesh.
P-20	NBL-156	12:50pm	Synthesis of Silver Nanoparticles by using Leaf Extract of Azadirachta indica and its biomedical applications.	Gulzar Ahmed Rather	Department of Biomedical Engineering, Sathyabama Institute of science and technology Chennai-605008.
P-21	NBL-157	12:50pm	Development of silver nanoparticles incorporated chitosan	Neena Haridas	Corporate R & D Centre, HLL

			sponges for woundHealing.		Lifecare Ltd., Kerala, Trivandrum - 695011.
P-22	NBL-161	12:50pm	Heat Transfer Enhancement In Heat Exchangers By Metal Oxide Nanofluids: A Review	Naveed Ahsan Bhat	Department of Chemical Engineering, National Institute of Technology, Srinagar-190006,
P-23	NBL-162	12:50pm	production of casein nanoparticles: their characterization and utilization for target delivery of encapsulated folic acid	Rehana Akhter	Department of Food Science and Technology, University of Kashmir, Hazratbal, Srinagar-190006, Jammu & Kashmir, India
P-24	NBL-163	12:50pm	Recent Applications of Nanomaterials	Hindaal Mustafa	Department of Chemical Engineering, NIT Srinagar, 190 006
P-25	NBL-165	12:50pm	Recent expansions in Cancer Nanotherapeutics	Shabnam Kawoosa	Department of Pharmaceutical Sciences, University of Kashmir, Hazratbal, Srinagar- 190006, India
P-26	NBL-166	12:50pm	INFLUENCE OF SOLID LIPID NANOPARTICLES IN CHRONIC DISEASES: A REVIEW	Tabasum Ali	Department of Pharmaceutical Sciences, University of Kashmir- 190006
P-27	NBL-167	12:50pm	Nanosuspension -A Novel Approach In Drug Delivery System	Rabiah Bashir	Department of Pharmaceutical Sciences,School of Applied Sciences and Technology,University of Kashmir,
P-28	NBL-168	12:50pm	Treatment of water by using transition metal and cow dug absorbents: Assessments by various physical parameters.	Sajad Ur Rehman	Department of Chemistry, National Institute of Technology Srinagar
P-29	NBL-169	12:50pm	Inorganic Organic Hybrid Nanomaterials for Wastewater Remediation	Tabee Jan,	Department of Chemistry, University of Kashmir, Hazratbal, Srinagar, 190006 J&K, India
P-30	NBL-170	12:50pm	Preparation and Characterization of Sorghum Starch Nano Particles Prepared By Ball Milling: Influence on Nutraceutical Potential.	Faiza Jhan	Department of Food Science and Technology, University of Kashmir, 190006.
P-31	NBL-171	12:50pm	Sludge based adsorbent for remediation of ofloxacin from waste water	Vikash Singh	Department of Chemical Engineering, Indian Institute of Technology Roorkee, Uttarakhand, India-247667.
P-32	NBL-172	12:50pm	Application of Nanotechnology in Additive Manufacturing: Prospectus and challenges	Fajar Javid	Department of Mechanical Engineering, SSM College of Engineering and Technology J&K- 193121
P-33	NBL-173	12:50pm	Physico-chemical effect of cationic and ampholytic water soluble chitosan coating on lipophilic drug nanoformulations	Navneet Kaur	1Institute of Nano Science and Technology, Habitat centre, Phase



					10, Mohali, Punjab-160062
P-34	NBL-293	12:50pm	Nano Technology and Environment	Showkat ahmad Mir	NIT Srinagar
P-35	NBL-294	12:50pm	Screening of Different Stem Extracts of <i>Abutilon theophrasti</i> for Antibacterial Activity	Musheerul Hassan	Department of Life Science, Pacific University, Udaipur, India-313024
P-36	NBL-295	12:50pm	NANOSENSORS	Musrat Majeed	
P-37	NBL-296	12:50pm	Liquid phase exfoliated few layered WS <sub>2</sub> thin sheets-based Photodetector	Abid	Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia
P-38	NBL-55	12:50pm	Tissue Engineering: Integration of Nanotechnology & Animal Tissue Culture	Prashanta Kumar Pal	
P-39	NBL-251	12:50pm	Integration of Nanoscience, Drug Discovery and Systems Biology	Prashanta Kumar Pa	
P-40	NBL-101	12:50pm	Silver ion implantation onto TiO <sub>2</sub> photoanodes for efficient plasmonic dye sensitized solar cells	Navdeep Kaur	Guru Nanak Dev University, Amritsar, India
P-41	NBL-102	12:50pm	Growth and Kinetics of Ag films synthesized at liquid-liquid interface	Sreeshma B	SRM Institute of Science and Technology, Kattankulaur, Chennai, India
P-42	NBL-103	12:50pm	Nanofluids: A newfangled technology to intensify heat transfer	Sobura Altaf	Department of Mechanical Engineering, SSM College of Engineering and Technology J&K- 193121
P-43	NBL-104	12:50pm	Extraction of Nanostructured materials from gaseous effluents responsible for global warming.	Ankush	Institute of Nanoscience & Technology, Habitat Centre, Phase-X, sector-64, Mohali-160062, Punjab.
P-44	NBL-105	12:50pm	Nanotechnology as an emerging tool in H <sub>2</sub> O purification.	Subzar Ahmad Nanda	Department of Botany, University of Kashmir.
P-45	NBL-106	12:50pm	Graphene & its applications.	Aditya Kumar	Department of Physics, NIT Srinagar-190006.
P-46	NBL-107	12:50pm	Development and Application of Graphene based nanocomposites.	Alim Husain Naqvi	Interdisciplinary Nanotechnology Centre, Aligarh Muslim University.
P-47	NBL-108	12:50pm	A comprehensive review on zinc oxide-based nanocomposites as advanced photocatalysts	Nisar Ahmad Chopan	Department of Chemistry, national Institute of Technology, Srinagar-190006, J&K, India
P-48	NBL-109	12:50pm	Extraction of Valuable Nano- products from Primary Waste Battery and its applications	Sunaina	Centre for Advance Studies in Chemistry
P-49	NBL-110	12:50pm	A poly (Vinyl alcohol) based ion exchange membrane with Zinc Oxide (Zno) nano particles for DMFC.	Diyan Ul Imaan	National Institute of Technology sgr
P-50	NBL-111	12:50pm	One-Pot Al-doped LiMn <sub>2</sub> O <sub>4</sub> Nanosheets as Cathode for Lithium Ion Batteries.	Dr. S A Akhoun	Department of applied science, Institute of Technology, University of Kashmir-190006.

P-51	NBL-112	12:50pm	Thermophysical Properties of Deep Eutectic Solvents and Boron Nitride based Nanofluids as Thermal Fluid and Steam Quality study.	Pyarimohan Dehury	Department of Chemical Engineering, Indian Institute of Technology Guwahati-781039.
P-52	NBL-113	12:50pm	Organic Framework's as Chemiresistive sensor for VOC's detection.	Nidhi Sharma	Institute of Nano Science and Technology (INST), Mohali -160062.
P-53	NBL-115	12:50pm	Influence on Hardness and Impact Strength of Mild Steel Under the Application of Electric Field	Hadi Fazili	Department of Mechanical Engineering, SSM College of Engineering and Technology-191111
P-54	NBL-65	12:50pm	In- Situ Synthesis of Zinc Oxide Doped Hydroxyapatite nanocomposite and its antibacterial activity	Sushma Yadav	Department of Ceramic Engineering, IIT BHU, Varanasi, India.
<b>Keynote</b>					
K1	NBL-Skype	3:00pm-3:15pm	Synthetic nanostructured electrodes for bacterial respiration	Dr. Shafeel Kalathil (JSPS)	Department of Chemistry, Cambridge University
K2	NBL-63	3:30am-3:45am	Why are Nanomaterials Different? Architecture of Nanocomposites and their Applied Applications	Prof. (Dr) Farid Khan	Department of Chemistry, Dr. Hari Singh Gour Central University, SAGAR-470003.
Invited	NBL-236	5:00pm	Significance of light scattering in account of nano-particles	Dr.Sanchita Roy	University of science and technology, Meghalaya, India
<b>3:45PM-4:05PM Session Tea</b>					
<b>Oral</b>					
O-1	NBL-133	4:05pm	Chitin/ based Nanomaterials in Drug Delivery System: Aminoethyl Chitin.	Tanvi Jain	Department of Chemical Engineering, Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh ,211004-India
O-2	NBL-134	4:05pm	Nanoparticle as new tool for treatment of tuberculosis.	Samreen	Department of Pharmaceutical Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
O-3	NBL-135	4:05pm	Development of Bioactive peptide based functional scaffolds for tissue Regeneration.	Rashmi	Institute of Nanoscience and Technology, Habitat Centre, Sector-64, Phase-10, Mohali, Punjab-160062.

O-4	NBL-13	4:05pm	Green solvent for the synthesis of nanostructure materials	H. S. Devi	Department of Chemistry, National Institute of Technology, Manipur-795003.
O-5	NBL-136	4:05pm	Antioxidant Activity of Different Solvent Fraction of Ladakhi Tradional Plant <i>Artemisia Moorcroftiana</i> .	Kaneez Fatima	Department of Biochemistry, University of Kashmir Srinagar.
O-6	NBL-139	4:05pm	Internet of Nano-Things: An Energy Efficient Routing Protocol for Healthcare Applications.	Hushmat Amin Kar	Department of Electronics and Communication Engineering, National Institute of Technology Srinagar-190006
O-7	NBL-158	4:05pm	Bactericidal activity of Biogenic AgNPs using plant pathogenic fungus, and their Structural Characterisation	Dr. M Amin	Govt College for women Govt of Jammu & Kashmir
O-8	NBL -159	4:05pm	Recent Trends in Extraction of Cellulosic Nano Fibres from Biomass waste: A Brief Review	Tanveer Rasool	Department of Chemical Engineering, National Institute of Technology Srinagar, J & K, India-190006
O-9	NBL-160	4:05pm	New Generation Cd free binary, ternary and quaternary Core-Shell Quantum Dots for Biophysical applications	Irshad Ahmad Mir	National Institute of Technology, Srinagar, Srinagar-190006
O-10	NBL-238	4:05pm	Mechanistic study on layered pervoskite cathode Materials for a solid oxide fuel cell	Dr. Uzma Anjum	IIT Delhi, New Delhi, India
O-11	NBL-292	4:05pm	Comparative effect of rare earth size on structural, dielectric and ac conductivity of orthoferites.	Dr. Khalid Sultan	Central university of Kashmir
O-12	NBL-93	4:05pm	Computational studies on the effect of introducing a $\pi$ -Bridge on the efficiency of a D-D- $\pi$ -A system using DFT.	Tania Manzoor	Department of Chemistry, University of Kashmir, Hazratbal, India-190006.
O-13	NBL-237	4:05pm	Role of gel matrix for the preparation of defect free crystals of metal organic complexes; for micro-electronics industry	Dr. Nazir Ahmad	Institute of Technology, Zakura Campus, University of Kashmir, J&K, India
O-14	NBL-20	4:05pm	Structural and Photoluminescence Investigations of LiZnVO <sub>4</sub> Phosphor for Displays	Sumara Khursheed	School of Physics, Shri Mata Vaishno Devi University, Kakryal, Katra-182320, J&K, India
O-15	NBL-334	4:05pm	Analysis of Ethmoid Roof Based On Keros Classification	Dr Samreen Siraj Bala	<i>Department Of Anatomy, Gmc, Srinagar.</i>

# Visit to Botanical and Tulip Garden

9<sup>th</sup> April 2019 (Afternoon)



## Fifth International Conference on “Nanotechnology for Better Living”



*Jointly organized by NIT Srinagar and IIT Kharagpur*

Session Chairman: Prof. F A Zaki

Coordinator of the day- Dr. Tariq

10<sup>th</sup> April 2019 (Morning)

Co-Chairman: Prof. B B Kahua

Co-Coordinator- Dr. Sajad

## "International Conference on Nanotechnology for Better Living" NBL-2019

### Technical Session 5: Agriculture, soil, Food, Fisheries, Forestry & Environment

#### Keynote

K1	NBL-279	9:30am-9:45am	Co-ordination assisted Self assembled nano structure; An engineered nano formulation for therapeutic application	Prof. Santanu Chattopadhyay	Rubber Technology centre, IIT Kharagpur-721302, India
K2	NBL-175	9:45am-10:00am	Graphene: A Disruptive Material	Dr. Saifullah Lone	National Institute of Technology, Srinagar,190006-India

#### Invited

I-1	NBL-223	10:15am-10:25am	Silver Nanoparticles from dried Mushroom Agaricus bisporous of Bandipora District.	Vandana Rathod	Department of Microbiology, Gulbarga University, kalaburagi
I-2	NBL-114	10:25am-10:35am	The Cantilever Beam Magnetometer: A Simple Technique for Magnetic Characterization.	Amal Kumar Das	Department of Physics, Indian Institute of Technology, Kharagpur - 721302, India.
I-3	NBL-176	10:35am-10:45am	Social issues of new technologies: case of Nanotechnology	Dr. Baharul Islam Laskar	University of Science & Technology, Meghalaya, India
I-4	NBL-177	10:45am-10:55am	Encapsulation and delivery of bioactives using cereal based polysaccharides	Dr.Adil Gani	Department of Food Science and Technology, University of Kashmir, Srinagar 190006, India
I-5	NBL-180	10:55am-11:05am	Nano reduction of $\beta$ -glucan and its utilization as nano-carrier for sustainable release of $\alpha$ -tocopherol	Dr. Asima Shah	Department of food science and technology University of Kashmir –

					Srinagar- J&k.
I-6	NBL-179	11:05am-11:15am	Improvement in the viscosity of Cow's milk and soy milk yoghurt by copolysaccharides produced from lactic acid bacterial strains.	Dr. Hilal Ahmad Punoo	Department of food science and technology University of Kashmir – Srinagar- J&k.
I-7	NBL-317	11:15am-11:25am	Nano-Photo catalysis: a versatile advanced oxidation process	Mushtaq Ahmad Rather	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006
I-8	NBL-206	11:25am-11:35am	Investigation of the electronic and optical properties of the bulk and 2D primitive cell structure of $A_2B_3$ (A=Bi and Sb & B=Se and Te) compounds using Tran-Blaha modified Becke-Johnson density functional.	N. Syed Kaleemullah	Crystal growth Centre, Anna university, Chennai-600025, Tamil Nadu, india.
I-9	NBL-S	11:35am-11:45am	Seminal metabolism and long-term sperm storage	Dr. Sudha K	Department of Animal Science, CU Kerala
<b>11:45am-12:05Pm Session Tea</b>					
<b>Oral</b>					
O-1	NBL-178	12:05am	Emerging Role of Nanotechnology in Food industry.	Dr.Tariq Ahmad	Department of food science and technology University of Kashmir – Srinagar- J&k.
O-2	NBL-181	12:05am	Microemulsion Fuels as a means of NOx Emission Reduction in HCCI Diesel Engines.	Mushtaq Ahmad Rather	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
O-3	NBL-199	12:05am	Hydrophobic amino-acid conjugated gold nanoparticle (V-AuNPs) based Colorimetric and spectrophotometric Assay for discriminating detection of Lead ions ifood.	Sonia	ICAR-National Dairy Research Institute, Karnal-13200, Haryana, India.
O-4	NBL-216	12:05am	Static characterization of thrust magnetic bearing	M. Mursaleen Butt	Department of Mechanical Engineering, National Institute of Technology Srinagar, India-190006.
O-5	NBL-164	12:05am	PLD grown rGO, a promising p-type transparent conducting thin film	M. M. Juvaaid	Department of physics, NFMTC-MSRC, IIT Madras, India-600036
O-6	NBL-227	12:05am	Selective hydrogenation of furfural to furfuryl alcohol at room temperature over nano-crystalline Ni/Al <sub>2</sub> O <sub>3</sub> catalyst.	Nazia Siddiqui	Catalytic Conversion Division CSIR-Indian Institute of Petroleum , Mohkampur, Dehradun 248005, india.
O-7	NBL-228	12:05am	PREPARATION AND IN-VITRO EVALUATION OF CERAMIC NANOPARTICLES-LADEN POLYMER ELECTROSPUN FIBRES	AV Suryavanshi	NanoBios Lab, Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, INDIA

O-8	NBL-229	12:05am	WGM lasing in the visible spectral range from Er <sup>3+</sup> ZnO micro-spherical cavities	K. Fabitha	Department of Physics, Nano Functional Materials Technology Center and Materials Science Research Center, IIT Madras
O-9	NBL-239	9:50am	Study of screening term due to electronic polarization of As-ions role on electron lattice interaction in Fe based superconductors.	Manoj Kumar	University of Agriculture Technology & Science, Allahabad, U.P, India
O-10	NBL-240	9:50am	Understanding the trends in the activity and selectivity of non-oxidative dehydrogenation of ethanol on (211) facets of transition metal catalysts and bimetallic alloys	Fatima Jalid	Department of Chemical Engineering, Indian Institute of Technology Delhi, New Delhi, India 110016
O-11	NBL-276	9:50am	Protein Templated fluorescent noble metal nanocluster for drug delivery	Kavya Vinod	Department of Chemistry, Pondicherry University, Kalapat Puducherry-605014,
O-12	NBL-255	9:50am	Green Synthesis of Copper Nanoparticles and their Evaluation Against Colletotrichum capsici Causing Fruit Rot of Chilli	T. A. Sofi	Division of Plant Pathology, Sher-e-Kashmir University of Agricultural Sciences and Technology- Kashmir

**01:30PM-2:30PM**

**LUNCH**

**1:00PM-3:00PM**

**Poster**

P-1	NBL-182	1:00pm	A novel Approach for Starch Extraction from Rice.	Muneeb Abrar	Department of Mechanical Engineering, SSM College of Engineering and Technology, Parihaspora Pattan.
P-2	NBL-183	1:00pm	Role of Porous Carbon Materials Prepared from Natural Biomass Materials in Energy Storage Applications	Sasi Kumar N	Department of Civil Engineering, Indian Institute of Technology, Delhi-16
P-3	NBL-184	1:00pm	Potential applications of chitin/chitosan-based nanomaterials for wastewater treatment: state of art review	Sushil Kumar	MNNIT Allahabad, India
P-4	NBL-185	1:00pm	Advances in wastewater treatment technology using iron oxide Nanomaterials	Shuja Bashir Malik	University of Kashmir, J&K, India
P-5	NBL-186	1:00pm	Effect of Nano- reduction on structural and nutraceutical properties of $\beta$ -d-glucan extracted from barley (hordeum vulgare) using ball mill.	Zanoor ul Ashraf	Department of food science and technology University of Kashmir – Srinagar-J&k.
P-6	NBL-187	1:00pm	Bio polymer nano emulsions as edible coating for minimally processed fruits.	Farah Naqash	Department of food science and technology University of Kashmir –

					Srinagar- J&k.
P-7	NBL-188	1:00pm	Nano-bio-remediation approach for cleaner environment.	Insha Amin	Department of Environmental Science, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-8	NBL-189	1:00pm	Highly Fluorescent Material Heteroatom Doped Carbon Dots Using for Sensing and Bacterial Effect Application.	Satyesh Raj Anand	Malaviya National Institute of Technology, Jaipur-302017 India
P-9	NBL-190	1:00pm	Importance of Nanomaterials in food Processing.	Saiyma Sheikh	Department of food technology, University of Shri venkateshwara Gajraula, Amroha, UP-244236.
P-10	NBL-191	1:00pm	Use of Nanotechnology in agriculture: A friend or a foe.	Rezwana Assad	Department of Botany, University of Kashmir, Hazratbal, Srinagar, J&K, India-19006.
P-11	NBL-192	1:00pm	Synthesis of Eco-Friendly PEG-based Controlled Release Nano- Formulation of Deltamethrin and its Bioefficacy Evaluation Against Insect Pest, European Red Mite, Panonychus Ulmi.	Shifa Muneer	Department of Horticulture, SKUAST-K, Shalimar, J&K.
P-12	NBL-193	1:00pm	Innovative Design and Operation of Duckbilled Biomembrane Nanofiltering Eco Vapour Toilet: Ecological Sanitation of Slums.	Lateef Ah. Najar	Department of Environmental Science, University of Kashmir.
P-13	NBL-194	1:00pm	Effect of Nano- Reduction on Physicochemical, Structural and Functional Properties of Starch Extracted from Oats Using Precipitation Method.	Ifra Hassan	Department of Food Science and Technology, University of Kashmir, 190006.
P-14	NBL-195	1:00pm	Nano Reduction of Pearl Millet Starch.	Nairah Noor	Department of Food Science and Technology, University of Kashmir, 190006
P-15					
P-16	NBL-197	1:00pm	Role of Nanotechnology in Seed biology and crop protection	Summia Rehman	Department of Botany, University of Kashmir, Srinagar, J&K-190006.
P-17	NBL-198	1:00pm	To investigate numerically the effect of Tunnel diameter on soil behavior during Tunnel Excavation	Asrar Wafaie	Department of Mechanical Engineering, SSM College of engineering & Technology-193121, India
P-18	NBL-200	1:00pm	Global atmospheric electric circuit and climate change.	Shaista Afreen	Department of Physics, University of Kashmir.
P-19	NBL-201	1:00pm	Organic-Inorganic (Polymer-linked @ Zirconium) Nanocomposite Photocatalysts for Environmental Remediation	Jahangir Ahmad War	Department of Chemistry, national Institute of Technology, Srinagar-190006, J&K, India
P-20	NBL-	1:00pm	Comperative Study on Micro and Nano –Encapsulation of	Mudasir Ahmad	Department of food science and



	202		Camel Milk Derived Probiotics Using Novel Source of Starch.		technology University of Kashmir – Srinagar-J&k.
P-21	NBL-203	1:00pm	Vanadium doping in Bismuth Titanate ( $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ ) and its influence on structural, dielectric and electrical properties with energy storage application	Shraddha K. Badge	Department of Physics, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur, Maharashtra, Pin-440010, India.
P-22	NBL-319	1:00pm	Magnetic properties of rare-earth doped cobalt ferrites and their First Order Reversal Curve analysis	Nahida Hassan	SSRL, Department of Physics, University of Kashmir, Hazratbal Srinagar-190006
P-23	NBL-204	1:00pm	Social Implications of Scientific Development on Society: A Debate on Nano Technology from Social Science Perspective.	S. A. Najar	Department of Social Work, University of Kashmir, J&K, India-190006.
P-24	NBL-205	1:00pm	Role of Nanotechnology in medicine and Cancer treatment	Shaista Ali	Department of Nanotechnology, University of Kashmir-190006.
P-25	NBL-207	1:00pm	The longitudinal spin Seebeck effect and magneto-resistive behavior in Rh/YIG hybrid structure	Fida Mohmed	School of Material Science & Engineering, Tsinghua University, Beijing-100084, China.
P-26	NBL-208	1:00pm	$\text{MoS}_2$ /Graphene hybrid polymer composites as fractional order capacitor dielectric.	Zaid Mohammad shah	Department of Electronics & Instrumentation, university of Kashmir
P-27	NBL-209	1:00pm	pH responsive metal coordination mediated poly (vinyl alcohol)-metal hydrogel, high toughness, thixotropy, self healing, 3D printing and drug release	Saima Afzal	Physical Chemistry division, Department of Chemistry, University of Kashmir
P-28	NBL-210	1:00pm	Development of security links through two step FRET process in self-assembled micellar systems.	Mohd Sajid Lone	Physical Chemistry division, Department of Chemistry, University of Kashmir
P-29	NBL-211	1:00pm	Reduced Graphene oxide for use in electro-chemical studies.	Pathapati Mounika	Material Science & Nanotechnology, Jawaharlal Nehru Technological University, Hyderabad, India-500085
P-30	NBL-212	1:00pm	$\text{Mo}_2\text{C}$ , an efficient bifunctional electro-catalyst for clean energy production & high-performance capacitors	Rameez Ahmad Mir	School of Physics & Material Science Thapar University, Patiala Punjab
P-31	NBL-213	1:00pm	Fabrication of lead selective PEDOT: PSS Zr(iv) phosphate-based ion selective membrane electrode	. Tauseef Ahmad Rangreez	Department of Chemistry, National Institute of Technology, Srinagar,190006, India.
P-32	NBL-214	1:00pm	Vibrational spectroscopy of Mo substituted $\text{SnO}_2$ nano-crystallites	Naseem Ahmad	Aligarh Muslim University, U.P India
P-33	NBL-215	1:00pm	Structural and Dielectric Properties of $(1-x) \text{BaTiO}_3-(x) \text{BaFe}_{12}\text{O}_{19}$ composites	Neelam Hooda	DCR University of Science and Technology, Murthal, India

P-34	NBL-217	1:00pm	Experimental Evaluation of Turbocharging a Four Stroke Diesel Engine.	Hasnain Salman	Department of Mechanical Engineering, SSM College of Engineering, Parihaspora Pattan.
P-35	NBL-218	1:00pm	Wattless magnetic refrigeration (WMR) using Hybrid Nano fluid.	Prabhjot Singh	Department of Mechanical Engineering, GCET Jammu.
P-36	NBL-219	1:00pm	Self- Made CNC Embroidery Machine.	Sabura Altaf	Department of Mechanical Engineering, SSM College of Engineering, Parihaspora Pattan.
P-37	NBL-220	1:00pm	Reconfigurable Computing for Image Processing Systems: An Overview.	Mohassin Ahmad	Department of Electronics and Communication, National Institute of Technology Srinagar, 190006-India.
P-38	NBL-221	1:00pm	Effect of Eu <sup>3+</sup> doping on the luminescent properties of LiZnPO <sub>4</sub> phosphors.	Sheeraz Ahmad Bhat	Department of Physics, National Institute of Technology Srinagar, Hazratbal, India-190006.
P-39	NBL-222	1:00pm	Sparking innovations with biomimetics: an integration of bioscience and robotics and nanotechnology.	Anam Iqbal	Department of Computer Science, University of Kashmir, Srinagar 190006.
P-40	NBL-224	1:00pm	Improving the properties of Lubricants using Nanotechnology	Nida Noor	Department of Mechanical Engineering, SSM College of Engineering and Technology J&K-193121
P-41	NBL-225	1:00pm	Ultra- porous NiCo <sub>2</sub> O <sub>4</sub> - rGO composite for high performance redox-capacitor application	Siddhant Srivastav	Malaviya National Institute of Technology, Jaipur, India
P-42	NBL-226	1:00pm	Confirmation of Non-Linear optical Behavior in PS/ZnO nano composites thin foils.	Monika Barala	Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar, India-125001.
P-43	NBL 231	1:00pm	CMOS LNA Linearization Techniques: A comparative analysis	AASIF	Department of Electronics and Communication Engineering, NIT Srinagar jk-190006
P-44	NBL-286	1:00pm	Fortification of Vitamin D in fruit based beverages aided with nano encapsulation	Maeena Naman	Department of Food Science and Technology, Kashmir University
P-45	NBL-300	1:00pm	Physicochemical, functional, structural and thermal characteristics of chitosan nanoparticles prepared through planetary ball milling	Touseef Ahmed Wani	Department of Food Science and Technology, University of Kashmir, Hazratbal, Srinagar 190006, Jammu & Kashmir, India

P-46	NBL-241	1:00pm	Effects of variation of concentration on the properties of ferric oxide thin films grown by the chemical bath deposition technique.	Samiya Nishat	Nanophysics laboratory, Department of Physics, University of Dhaka-1000, Bangladesh.
P-47	NBL-242	1:00pm	Network formation in gellan aqueous solution with monovalent, divalent and trivalent metallic ions.	Abeda Sultana Shamma	Nano physics laboratory, Department of Physics, University of Dhaka-1000, Bangladesh.
P-48	NBL-243	1:00pm	Magneto-transport properties of $Sb_{1.8}Mn_{0.1}Cu_{0.1}Te_3$ Topological insulator.	Debarati Pal	Department of Physics, Indian institute of Technology (BHU), Varanasi-221005.
P-49	NBL-244	1:00pm	Charge Transfer Study and photoluminescence Quenching in Self- Assembled All inorganic Perovskite Quantum Dots on Phosphorene Sheets.	Subas Muduli	Department of Physics, Indian Institute of Science Education and Research(IISER), Pune Dr. Homi Bhabha Road, Pune , India-411007.
P-50	NBL-245	1:00pm	Effect of purity of Aluminium foil on hexagonal cell structure in porous alumina.	M.A Mir	Department of Physics, National Institute of Technology Srinagar, Hazratbal, India-190006.
p-51	NBL-335	1:00pm	Encapsulating probiotics in novel resistant starch wall material for production of rice flour extrudates	Bilal Ahmad Ashwar	Dept. of Food Science and Technology, University of Kashmir
P-52	NBL-336	1:00pm	Use of guar and locust bean gum in development of gluten free cookies from rice flour	Idrees Ahmed Wani	Dept. of Food Science and Technology, University of Kashmir
P-53	NBL-337	1:00pm	Role of Co ion implantation on physical properties of $CeO_2$ thin films	Zubida Habib	Dept. of Chemistry, NIT Srinagar
<b>Keynote</b>					
K1	NBL-61	3:00pm-3:15pm	Nanotechnology for Living PKL Electricity	K.A.KHAN	Department of Physics, Jagannath University, Dhaka 1100, Bangladesh
K2 (Sponsored SIR)	NBL-233	3:15pm-3:30pm	Spin injection and junction capacitance-voltage behaviour in (Ni-nanodots)TiN/SiO <sub>2</sub> /p-Si heterostructure.	Prof. T. K. Nath	Department of Physics, Indian Institute of Technology, Kharagpur, West Bengal 721302, India

**Invited**

1.	NBL-174	3:30pm-3:40pm	My journey in laparoscopic surgery	DR. MUSHTAQ CHALKOO	Professor of Leproscopy, GMC, Srinagar
2.	NBL-308	3:40pm-3:50pm	Nanoscience, Green Technology And Sustainability	Dr. Alka Sharma	Centre of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur-302 004 (India)
3.	NBL-234	3:50pm-4:00pm	Enhanced Kerr nonlinearity via EIT in a three-level semiconductor quantum well nanostructure	Dr. Nitu Borgohain	University of Science and Technology, Meghalaya, India
4.	NBL-301	4:00pm-4:10pm	Fabricating the nanofiber scaffolds from modified cellulose acetate for advanced tissue engineering and regeneration	Dr, Faheem A Sheikh	Department of Nanotechnology, University of Kashmir, Hazratbal, Srinagar 190006
5.	NBL-310	4:10pm-4:20pm	Ce Doped Nanocrystalline Terbium Aluminium Garnet Phosphor	Dr. Humyra Shabir	Department of Education, Govt. of Jammu and Kashmir-India
6.	NBL-313	4:20pm-4:30pm	Cardanol-formaldehyde and divalent transition metal ions derived nanostructured material	Dr. Fahmina Zafar	Alnorganic Materials Research Laboratory, Department of Chemistry, Jamia Millia Islamia
7.	NBL-314	4:30pm-4:40pm	Nano Technology: A Novel Way for Enhancing Horticultural Crop Productivity	Dr. Shoaib Nissar Kirmani	Indian Council of Agricultural Research-Central Institute of Temperate Horticulture, Rangreth, Srinagar-190007

**4:40pm-5:00pm****Session Tea****Oral**

O-1	NBL-309	5:00pm	Nature Driven Spider Silk an Efficient Bio-piezoelectric Green Energy Harvester	Sumanta Kumar Karan	Materials Science Centre, Indian Institute of Technology Kharagpur, India
O-3	NBL-312	5:00pm	Gd(OH) <sub>3</sub> nanorods: low temperature synthesis & thermal conversion to oxide nanorods	Abdul Hanan	Dept. of Nanotechnology, University of Kashmir, Srinagar, 190006
O-6	NBL-262	5:00pm	Structural, Magnetic and Optical Properties of Multiferroic HoCrO <sub>3</sub> Thin Films Grown on Si Substrate by pulsed Laser Deposition	Anusree V.K	Indian Institute of Madras, Chennai, 600036- India
O-7	NBL-273	5:00pm	Waste derived nano-CaZrO <sub>3</sub> an advanced binder system for high temperature castable refractories	SKS Hossain	IIT BHU

O-8	NBL-274	5:00pm	Smart towing system using mobile application.	Rahul Jadhav	Department of Computer Engineering, Fr.C.Rodrigues Institute of Technology Vashi-Navi, Mumbai-400703
O-9	NBL-275	5:00pm	Enhancement of conductivity in non-stoichiometric $\text{Na}_x\text{Bi}_{(1-x)}\text{TiO}_{3-\delta}$ ( $x=0.48-0.54$ ).	Pragati Singh	Department of Physics, Indian Institute of Technology (BHU) Varansi-221005, India.
O-10	NBL-290	5:00pm	Heavy metal pollution in Kashmir Valley lakes: with special reference to Manganese, Iron and Cobalt	Dr. Parvaiz Ahmad Bhat	Department of Chemistry, University Of Kashmir, Srinagar
O-11	NBL-298	5:00pm	A Power Efficient Active Rectifier for Inductively Powered Implanted Devices	Mohsin Suharwerdi	Department of Electronics & Communication Engineering, National Institute of Technology, S
O-12	NBL-340	5:00pm	Novel piezoelectric materials for energy harvesting and sensing applications	Mohd Faraz	Physics Department, Indian Institute of Technology Delhi

## 5<sup>TH</sup> Day(Thursday)

### International Conference on Nanotechnology for Better Living" NBL-2019

#### Technical Session 5: Agriculture, soil, Food, Fisheries, Forestry & Environment

Session Chairman: Prof. Partha Saha

Co-Chairman: Prof. A A Zargar

Coordinator of the day- Dr. Gausia Qazi

Co-Coordinator- Dr. Murseleen

## Keynote

K1 (Sp nsor edD SIR)	NBL-320	9:30am-9:45am	Integrated Vehicle Health Monitoring	A K Deb	Dept. of EE, IIT Kharagpur
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<b>10:30am-11:40pm</b>		<b>Poster</b>			
P-51	NBL-246	10:30am	Exploring the Growth and Properties of a Semi Non-Linear Optical Material L- Alanine Single Crystal.	S. S. Rana	Department of Physics, National Institute of Technology Srinagar, Hazratbal, India-190006.
P-52	NBL-247	10:30am	X-Ray analysis of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles by Williamson- Hall plot method.	Mubashir Qayoom	Department of Physics, University of Kashmir, Srinagar-190006.
P-53	NBL-248	10:30am	Effect of Gold ion Implantation on Structural and Optical Properties of Sapphire Single Crystal.	Farooq Ahmad	Department of Physics, National Institute Technology, Srinagar-190006- India.
P-54	NBL-249	10:30am	Structural, thermal and electrical properties of lithium bismuth borate glasses co-doped copper ferrites.	R. Rohilla	Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat-131039 India.
P-55	NBL-250	10:30am	Effect of Sr-doping on structural and magnetic properties of La <sub>2</sub> CoMnO <sub>6</sub> .	Mushtaq Ahmad Magray	Department of Physics, National Institute of Technology Srinagar, Hazratbal, India-190006.
P-56	NBL-252	10:30am	Temperature Dependent Dielectric Behavior and Conduction Mechanism of Nickel DopedBiFeO <sub>3</sub> Multiferroic.	M. Nadeem	Department of Applied Physics, Aligarh Muslim University, Aligarh, India.
P-57	NBL-253	10:30am	1-D Nanostructure advantage in Photo-electrochemical applications	Muzaffar Ahmad Boda	Department of Physics, NIT Srinagar– 190006
P-58	NBL-	10:30am	Citrate-gel synthesis of tin doped indium oxide	A.H Sofi	Department of Physics, National

	254		nanostructures.		Institute of Technology Srinagar, Hazratbal, India-190006.
P-59	NBL-256	10:30am	Synthesis of different phases of Zirconia nanostructures: A review	Latief Mohi ud din	Department of Physics, NIT Srinagar
P-60	NBL-257	10:30am	Insight to the photo-physical processes in semiconductor quantum dots and carbon dots	Dr. Subhadip Ghosh	School of chemical Sciences, NISER, Bhubaneswar, India
P-61	NBL-258	10:30am	A review on multiferroic bismuth ferrite $\text{BiFeO}_3$	Tasaduq Hussain Mir	University of Kashmir, Srinagar, India
P-62	NBL-259	10:30am	Measurement of plasma parameters in lime-seeded arc plasma and silica-seeded arc plasma at atmospheric pressure	Vijay Kumar Jah	Tribhuvan University, Kathmandu, Nepal
P-63	NBL-260	10:30am	Effect of cold injection on whistler mode wave in presence of parallel AC electric field for plasma in the magnetosphere of Saturn	Jyoti Kumari	Amity University, Noida, India
P-64	NBL-261	10:30am	Molybdenum dichalcogenide nanoparticle for energy application- a review	Priyanka	Defence Institute of Advanced Technology (DIAT), DRDO, Girinagar, Pune, India
P-65	NBL-263	10:30am	High Field Fluctuation Conductivity Study of $\text{YBCO} + \text{Xbzo}$ Composite Superconductors	Bilal A. Malik	University of Kashmir, Srinagar, India
P-66	NBL-264	10:30am	Size-strain analysis and Relaxation phenomena in functionalized $\text{CoFe}_2\text{O}_4$ magnetic nano particles	Vibha H. Ojha	Visvesvaraya National Institute of Technology, Nagpur, India
P-67	NBL-265	10:30am	$\text{LaCoCrGa}$ quaternary heusler thermoelectric response for green energy devices	Srishti Singh	Jiwaji University Gwalior-(MP) India

P-68	NBL-266	10:30am	Silicon on insulator junctionless transistor with high work function metal under buried oxide layer	Faisal Bashir	Department of Electronics and Instrumentation Technology, Srinagar India
P-69	NBL-267	10:30am	Studies on dielectric and magnetic properties of pure and doped iron oxide Nanoparticles	Ruqyia Bhat	University of Kashmir, J&K, India
P-70	NBL-268	10:30am	Acceleration of Dynamic Smith-Waterman Algorithm using FPGA	Rasik Rashid Malik	National Institute of Technology, Srinagar-190006
P-71	NBL-269	10:30am	Design and analysis of graphene base terahertz band antenna for nano-network applications	Umar Farooq	NIT Srinagar, India
P-72	NBL-270	10:30am	Diffusion based molecular communication in next-generation nano-networks	Yusra Banday	NIT Srinagar, India
P-73	NBL-271	10:30am	A new insight into detection and removal of heavy metal ions-a review	Aaliya Qureshi	Department of Chemistry, University of Kashmir, Hazratbal Srinagar-190006, India
P-77	NBL-272	10:30am	Efficient design of reversible nanoscale parity checker/generator using Quantum dot cellular automata.	Javeed Iqbal Reshi	Department of Electronics & Instrumentation, university of Kashmir, Srinagar, India.
P-78	NBL-277	10:30am	Sol Gel synthesis of Bismuth oxide (Bi <sub>2</sub> O <sub>3</sub> ) nanoparticles	Yunis Ahmad Dar	Department of Mechanical Engineering, NIT Srinagar-190006,India
P-79	NBL-278	10:30am	Nanotechnology future of environmental pollution control	Sheikh Umar	Department of Civil Engineering, NIT Srinagar-190006,India
P-80	NBL-	10:30am	Co-ordination assisted Self assembled nano structure; An	Sudipta Panja	Rubber Technology centre, IIT



	279		engineered nano formulation for therapeutic application		Kharagpur-721302, India
P-81	NBL-280	10:30am	Modification of Soil Properties Using Nano Materials	Shahzada Omer Manzoor	Department of Civil Engineering, National Institute of Technology, Srinagar J&K, 190006
P-82	NBL-282	10:30am	Synthesis of Iron oxide nanostructures by electrochemical anodization	Jaffar Farooq Mir	Department of Physics, NIT Srinagar-190006.
P-83	NBL-283	10:30am	Rapid synthesis of Zinc Oxide Nanotube–Nanowire Hybrid Nano-structure thin films via Anodization	Ab Mateen Tantray	Department of Physics National Institute of technology -190006.
P-84	NBL-284	10:30am	Sol-gel synthesis of Cobalt doped Magnesium oxide nanostructures	Saqib Rouf	SSM college of Engineering.
P-85	NBL-285	10:30am	Quantum Confined Laser Diode Characteristics	Mursal Ayub Hamdani	Deaprtment of Electronics and Communication , NIT Srinagar, 190006
P-86	NBL-287	10:30am	Permeability of Multi-layered Soils	Aadil Yousuf	Department of Civil Engineering, National Institute of Technology, Srinagar J&K, 190006
P-87	NBL-288	10:30am	Utilization of fly ash for Soil Stabilization-A review	Aadil Yousuf	Department of Civil Engineering, National Institute of Technology, Srinagar J&K, 190006
P-88	NBL-289	10:30am	A Comparative Study of NdFeO <sub>3</sub> and NdFe <sub>0.7</sub> Zn <sub>0.3</sub> O <sub>3</sub> : Raman Spectroscopy and Magnetic Properties.	Anand Somvanshi	Department of Physics, Aligarh Muslim University, Aligarh, 202002-India.
P-89					
P-90	NBL-291	10:30am	Sol-Gel synthesis of Zinc Oxide (ZnO) nanoparticles	Aqib Hussain Mir	Department of Mechanical Engineering, National Institute of Technology,

P-91	NBL-299	10:30am	Metallomicellar Catalysis: Investigation of antioxidant activity of Quercetin under varying oxidative stress in aqueous micellar media	Roheena Jan	Department of Chemistry, University of Kashmir
P-92	NBL-304	10:30am	Structural, ferroelectric and magnetic properties of multiferroic composites based on CoLa <sub>0.1</sub> Fe <sub>1.5</sub> O <sub>4</sub> -BiFeO <sub>2</sub>	Gowher H Rather	Department of Physics, NIT Srinagar
P-93	NBL-305	10:30am	Development of extraction method, analysis and microencapsulation of lutein obtained from different varieties of marigold flower	Shaziya Manzoor	University of Kashmir Hazratbal Srinagar
P-94	NBL-306	10:30am	Enhancing the stability of carotenoids extracted from vegetable waste by microencapsulation	Rubiya Rashid	University of Kashmir, Hazratbal Srinagar
P-95	NBL-307	10:30am	Two port laparoscopic cholecystectomy with a technical modification of using port closure needle; a new technique	Dr.Abid Rasool	GMC Srinagar
P-96	NBL-315	10:30am	Colorometric and electrochemical DNA aptamer based dual platform for detection of salmonella typhi	Shahnawaz A Baba	Department of Biotechnology, and centre of nanotechnology, IIT Roorkee
P-97	NBL-316	10:30am	Magnetic Susceptibilities And Sub-Surface Analysis: The Magnetic Data and Interpretations	Ayaz Mohmood	Department of Civil Engineering, NIT Srinagar
P-98	NBL-322	10:30am	High aspect ratio, 1D rGo-wrapped, Sb <sub>2</sub> Se <sub>3</sub> nano rods as high performance anodes for Sodium ion batteries.	Haamid Haroon	Department of Chemistry, NIT Srinagar
P-99	NBL-323	10:30am	MIL-53 an Iron based Metal Organic Framework immobilized by BiOI as efficient visible light Photocatalyst	Feroz Ahmad	Department of Chemistry, NIT Srinagar
P-100	NBL-321	10:30am	Fabrication of materials with microwave	Shah Farah	CU Kashmir
P-101	NBL-327	10:30am	Nanotechnology For Water Treatment	Zahid Nisar	CU Kashmir
P-102	NBL-325	10:30am	Synthesis, characterization, structural and morphological studies of rare earth double perovskite Gd <sub>2</sub> NiMnO <sub>6</sub>	Nazima Nazir	Department of Physics, NIT Srinagar
p-103	NBL-326	10:30am	The idea of air INK	Reyan Hamid	DPS Srinagar
p-104	NBL-326	10:30am	The idea of air INK	Reyan Hamid	DPS Srinagar
P-101	NBL-328	10:30am	Silver Nanoparticles from dried mushroom Agaricus bisporus of Bandipora District(Jammu and Kashmir)and their efficacy against Methicillin Resistant Staphylococcus aureus (MRSA) strains	Mohd.Manzoor ul haq	Department of Microbiology Gulbarga University Kalaburagi
P-	NBL-	10:30am	Sol gel Synthesis of MgO Nanostructures and its Antibacterial Activity	Shahrukh	C U Kashmir

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P-106	NBL-327	10:30am	Nanotechnology For Water Treatment	Zahid Nisar	CU Kashmir
I-A	NBL-330		Nobleness Of Biogenic Silver Nanoparticles Synthesised From Endophytic Ungi As Nano-Antibiotics	Bijaya Kumar Nayak	Dept. Of Botany, Centre For Post Graduate Studies, Puducherry
I-B	NBL-331		Goodness Of Biosynthesised Nanomaterials From Wasp Nest Fungi To Control Over Mdr Pathogens	Prof. Anima Nanda	School Of Bio And Chemical Engineering Sathyabama Deemed University, Chennai
p-106	NBL-332	10:30am	CdO-Graphene oxide nanocomposites for enhanced visible light responsive photocatalytic activity.	Jahangir Ahmad,	Department of Chemistry, National Institute of Technology, Srinagar (J&K) 190 006, India.
P-107	NBL-338	10:30am	Carbon Nanotubes and Cancer : A Review	Urba Afnan	<i>Dept. of Nanotechnology, University of Kashmir</i>
P-108	NBL-339	10:30am	Synthesis and spectral Kinetic study of Fe(II) and Co (II) demi-macrocyclic Complexes with N2o2 ligand Ion	Dr. Sameena Rasheed	<i>Awadesh Pratap Singh University Rewa</i>

1. DSIR, DST New Delhi
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8. Department of Information, J & K- Shri Gulzar Ahmad Dar
9. Department of Tourism, J & K- Shri Nisar Ahmad
10. Department of Floriculture J & K- Shri Abdul Hafiz
11. SDM Gulmarg- Dr. Haneef Bulkhi
12. CSIR New Delhi: Director General
13. NBHM: Secretary

14. J&K Bank: Manager, NIT Branch Srinagar



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NBL-2019

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