### Dr. Tokeer Ahmad, FRSC

#### **Professor**

Professor of Nano/Energy/Physical Chemistry

Department of Chemistry

**Scopus Author ID** 

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**URL:** https://www.jmi.ac.in/upload/employeeresume/tahmad3.pdf https://scholar.google.com/citations?hl=en-US&user=P66ur-8AAAJ

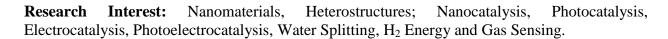
Web of Science ResearcherID: G-8594-2016

**ORCiD ID** : 0000-0002-7807-315X

**Teaching Experience** : 19½ Years **Research Experience** : 23½ Years

**Subject Specialization**: Physical/Nano- Chemistry

:7101735632



**Profile:** Enthusiastic, Responsible, Independent, Team Spirit, Positive Attitude, Proficient in Teaching with Innovative and Inspiring ideas.

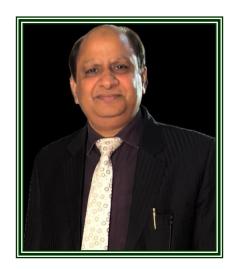
**Hobbies:** Reading books, Writing papers, Long driving, Swimming and Mountain trekking.

#### **Academic Qualifications:**

- 1. Ph.D. (Nano-Chemistry, 2006): Indian Institute of Technology (IIT) Delhi.
- 2. M.Sc. (Chemistry, 2000): First Division from University of Roorkee (IIT Roorkee).
- 3. B.Sc. (1998): First Division from KLDAV College Roorkee (CCSU Meerut).
- 4. Intermediate (1995): First Division from KLDAV Inter College Roorkee (UP Board).
- 5. High School (1993): First Division from KLDAV Inter College Roorkee (UP Board).

### **Employment Profile:**

- 1. Professor (Since 26 Nov 2019): Jamia Millia Islamia, New Delhi.
- 2. Associate Professor (10 Feb 2018 to 25 Nov 2019): Jamia Millia Islamia, New Delhi.
- 3. Assistant Professor (27 Nov 2006 to 09 Feb 2018): Jamia Millia Islamia, New Delhi.
- 4. Research Fellow (2006): Indian Institute of Technology (IIT) Delhi.
- 5. CSIR Senior Research Fellow (2004-05): Indian Institute of Technology (IIT) Delhi.
- 6. CSIR Junior Research Fellow (2001-03): Indian Institute of Technology (IIT) Delhi.



#### **Academic Awards/Honors/Achievements:**

- 1. CRSI Bronze Medal for 2025 declared by Chemical Research Society of India.
- 2. India-Top Cited Paper Award-2024 by Institute of Physics (IOP Publishing) UK.
- 3. Fellow of the Royal Society of Chemistry (FRSC), London, UK (2023).
- 4. MRSI Medal for 2023 conferred by Materials Research Society of India, Bangalore.
- 5. Alumni Faculty Award-2023 for significant contribution in the field of Education & Research by IIT Delhi Alumni Association, IIT Delhi on Alumni Faculty Day.
- 6. SMC Bronze Medal-2022 conferred by Society of Materials Chemistry, BARC Mumbai.
- 7. Teachers' Excellence Award-2022 during All India Teachers Annual Conference organized by Teachers' Welfare Foundation and Jan Seva Samiti.
- 8. Figured in World Top 2% Scientists in both coveted lists including career long by Stanford University, USA for consecutive years 2020, 2021, 2022, 2023, 2024.
- 9. Maulana Abul Kalam Azad Excellence Award of Education conferred by Shikshak Kalyan Foundation (2021) at NCERT New Delhi.
- 10. Distinguished Scientist Award for the outstanding contribution in the area of Chemical Sciences and its societal impact conferred by ISCAS-NCSCA-2019.
- 11. Member, National Academy of Sciences India (NASI) 2019.
- 12. Inspired Teacher Award from President of India (2015).
- 13. Editorial Board Member, Scientific Reports, Nature Publishing Group (Since 2016).
- 14. Editorial Board Member, Acta Scientific Pharmaceutical Sciences (ASPS) (Since 2018).
- 15. Editorial Board Member, Future Trends in Nanotechnology (Since 2020).
- 16. Editorial Board Member, Nanoscale and Advanced Materials(NSAM) (Since April 2024)
- 17. Review Editor for Nanoscience, Frontiers in Chemistry (Since 2022).
- 18. Review Editor for Frontiers in Catalysis Electrocatalysis (Since June 2023)
- 19. Managing Guest Editor, Materials Today: Proceedings (Elsevier Journal), NCAFM-2019.
- 20. Sheikh Saqr Visiting Scientist with Bharat Ratna Prof. CNR Rao at ICMS-JNCASR Bangalore (2015 & 2016).
- 21. ISCAS Medal-2011 for significant contribution in Solid State Chemistry and Allied Areas conferred by Indian Association of Solid State Chemists and Allied Scientists.
- 22. DST-DFG award by Govt. of India for Nobel Laureates Meeting in Germany (2009).
- 23. Best PG student award from Nilgiri Hostel, IIT Delhi (2003).
- 24. Qualified GATE (2000 and 2001) and CSIR-JRF NET (2001).
- 25. AIR 1 in M.Sc Entrance Examination conducted by University of Roorkee (1998).
- 26. National merit scholarship from U.P. Board Allahabad (1993-95).

**Instrumental Skills:** X-ray Diffractometer, Electrochemical workstation, Gas Sensing Set-up, TGA/DTA, GC, FTIR, HF-LCR meter, UV-vis-DRS, DLS and BET Surface Area Analyzer.

**Teaching Courses:** Nano Catalysis, Thermodynamics, Advanced Solid State Chemistry and Nano Chemistry at Postgraduate level. Physical Chemistry at Undergraduate level.

# **Research Projects/Schemes: 10**

10.	Development of Cost Effective Binary and Ternary Heterojunctions for Bifunctional CO <sub>2</sub> Sequestration and Hydrogen Production funded under Core Research Grant by SERB New Delhi, 2024-2027 (Ongoing), Rs. 31,19,688/-: Principal Investigator	
9.	Development of Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) and its doped Nanostructured Analogous for Clean and Green Energy Applications Emphasizing on Hydrogen Generation funded under SPARC scheme sponsored by MHRD, Govt. of India, 2019-23 (Completed), Rs. 83,04,935/-: Principal Investigator in collaboration with Texas A & M University and University of Texas Rio Grande Valley.	
8.	Development of Lanthanide based Multifunctional Nanoparticles for Photo-catalytic Water Splitting Applications funded by SERB, DST, New Delhi, 2018-2022 (Completed), Rs. 47,99,890/-: Principal Investigator	
7.	Development of Ceria, Zirconia and Titania based Nano-composites for Gas Sensing and Dielectric Applications funded by Council of Scientific and Industrial Research (CSIR), New Delhi, 2017-2020 (Completed), Rs. 14,47,260/-: Principal Investigator	
6.	Recent Developments in Nano Materials for Energy and Health Care Applications, a short-term program under GIAN scheme sponsored by MHRD, Govt. of India, 2016, Rs. 5,44,000/-: Coordinator	
5.	Development and Structural Characterization of YMO <sub>3</sub> (M = Cr, Mn & Fe) Multiferroic Nanoparticles using Polymeric Citrate Precursor Method, funded by JMI, New Delhi, 2014 (Completed), 1.00 Lakh: Principal Investigator	
4.	Solvothermal Synthesis and Structural Characterization of ZnO, CdO, SnO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> based Dilute Magnetic Semiconductor Nanoparticles, funded by Council of Scientific and Industrial Research (CSIR), New Delhi, 2011-2014 (Completed), 17.93 Lakhs: Principal Investigator	
3.	Polymeric Citrate Precursor Synthesis of Nanocrystalline $Ba_{1-x}(Pb, Sr)_x ZrO_3$ : Structural Characterization and Dielectric Properties under International Collaborative Research Programme University of Tabuk, Kingdom of Saudi Arabia, 2010-2012 (Completed), SR $6,00,000 \approx 75.0$ Lakhs: Principal Investigator	
2.	Special assistance programme (SAP) for the thrust areas (Chemistry of Lanthanides and Nano-Science), funded by University grants commission (UGC), New Delhi, 2007-2012, (Completed), 49.0 Lakhs: Deputy Coordinator	
1.	Microemulsion synthesis of Metal (mainly Au and Ag) Nanoparticles and their nanosized oxides (Young Scientist Project under fast track scheme), funded by Department of Science and Technology (DST), New Delhi, 2007-2010, (Completed), 19.68 Lakhs: Principal Investigator	
	Total fund granted : Rs. 3,44,76,773/-	

## Ph.D. Guidance: 22 [Awarded: 16, Submitted: 0, Pursuing: 6]

1.	Dr. Aparna Ganguly (2011), Precursor Mediated Route to Nano-oxides: Synthesis,
	Characterization and Properties (Co-supervisor: Prof. A. K. Ganguli, IIT Delhi).
2.	Dr. Irshad Ahmad Wani (2012), Synthesis, Characterization and Properties of Metal
	Nanoparticles and their Nano-sized Oxides.
3.	Dr. Sarvari Khatoon (2013), Chemical Synthesis of Nano-sized Dilute Magnetic
	Semiconductors and their Properties.
4.	Dr. Mohd. Ubaidullah (2016), Facile Synthesis, Characterization and Dielectric Properties
	of Zirconium based Dielectric Oxide Nanoparticles (Supervisor: Dr. Dinesh Choudhary).
5.	Dr. Irfan Husaain Lone (2016), Synthesis, Characterization and Properties of
	Nanocrystalline Multiferroic Compounds.
6.	Dr. Mohd. Shahazad (2018), Synthesis, Characterization and Dielectric Properties of
	Ceria and Titania based Nanocomposites.
7.	Dr. Ruby Phul (2018), Synthesis, Characterization and Applications of Metal Oxide
	Nanoparticles (Co-supervisor: Dr. Meryam Sardar).
8.	Dr. Irshad Ahmad (2018), Synthesis and Characterization of Molecular Imprinted
	Nanomaterials for the Removal of Heavy Metals from Aqueous Solution (Supervisor:
	Prof. Waqar A. Siddique).
9.	Dr. Umar Farooq (2020), Synthesis and Characterization of Dielectric Nanoparticles for
	Photocatalytic Applications.
10.	Dr. Sapan Kumar Jain (2022), Chemical Synthesis, Structural Characterization and
	Applications of Metal Oxide Nanoparticles.
11.	Dr. Farha Naaz (2023), Development of Oxide-based Nanoparticles for Organic
- 10	Transformation Reactions.
12.	Dr. Huma Khan (2023), Synthesis, Characterization and Properties of Multifunctional
12	Oxides Nanoparticles for Water-Splitting Applications.
13.	Dr. Amir Mehtab (2023), Development of Graphitic Carbon Nitride and its doped
1.4	analogue Nanostructures for Photo/Electro/Photoelectro-Catalytic Applications.
14.	Dr. Nayeem Ahmad Pandit (2023), Synthesis, Characterization and Gas Sensing
15	Applications of Metal Oxide based Nanocomposites.  Dr. Mohd Fozil (2022) Synthesis Characterization Properties and Applications of Metal.
15.	Dr. Mohd Fazil (2023), Synthesis, Characterization, Properties and Applications of Metal Doped Titanium Dioxide Nanoparticles.
16.	Dr. Syed Asim Ali (2024), Synthesis, Characterization and Photoelectrocatalytic
10.	Properties of Oxide Nanoparticals.
17.	Iqra Sadiq (Continue), Chemical Synthesis and Structural Characterization of Some
1/.	Functional Nanostructures for Hydrogen Generation and Organic Conversion Reactions.
18.	Danish Alam (Continue), Prevention of Protein Aggregation and Investigating
10.	Mechanism of Action of Sugar based Nanoparticles (Supervisor: Prof. Meryam Sardar).
19.	Saman Shaheen (Continue), Bismuth based Heterostructured Nanomaterials for Hydrogen
17.	Saman Shancen (Continue), Dismun based Helefostiuctured Nanomaterials for Hydrogen

	Generation using Water-Splitting.
20.	Mariyam Saniya (Continue), Synthesis and Structural Characterisation of
	Heterostructured Nanomaterials for Hydrogen Energy Production.
21.	Saiful Islam (Continue), Synthesis and Characterization of Binary/ Ternary Nano-sized
	Heterostructures for CO <sub>2</sub> Reduction and Hydrogen Energy Production.
22.	Sumbul Raza (Continue), Synthesis and Characterization of Multifunctional
	Heterostructures for Hydrogen Generation and Gas Sensing Applications.
23.	Masiha Rahman (Continue), Development of Metal Oxide and Chaleogenide based
	Heterostructures for Nitrogen Fixation and Hydrogen Production.

## **Evaluation of External Ph.D. Thesis: 67**

67.	Mr. Ujwal Manhas, Synthesis and multifunctional properties of some mixed metal spinel
	ferrites, Department of Chemistry, University of Jammu, Jammu (2024).
66.	Mr. Sujith P, Advancements in Lead and Lead-free Caesium Halide Perovskites for
	Optoelectronic and Photovoltaic Applications, Department of Applied Science, NIT,
	Goa (2024).
65.	Ms. Manisha Sharma, Vacancy Engineered and Heteroatom Doped Perovskite Oxides
	for Photocatalytic Nitrogen Fixation and Environmental Remediation, School of
	Chemical Sciences, IIT Mandi (2024).
64.	Mr. Muzaffar Ahmad Bhat, Transition Metal-Based Chalcogenides for Advanced
	Energy Applications, Department of Chemistry, NIT, Srinagar (2024).
63.	Ms. Kiran Negi, Micellar Behaviour of Cationic Surfactants in Aqueous Solutions of
	Tetraalkylammonium based Ionic liquids, Department of Chemistry, Himachal Pradesh
	University, Shimla (2024).
62.	Mr. J. Rozamliana, Studies on Interactions between Anionic Azo Dyes and Micelles
	With and Without Additives, Department of BS & HSS (Chemistry), NIT Mizoram
	(2024).
61.	Ms. Pinki, Studies on Biological and Applied Aspects of Nickel, Platinum and Palladium
	based Bimetallic Molecules, Department of Chemistry, Kurukshetra University (2024).
60.	Ms. Qurtulen, Synthesis, Characterization and Applications of the Carbon Quantum Dots
	based Nanomaterials, Department of Chemistry, AMU Aligarh (2024).
59.	Mr. Amit Kumar Atri, Synthesis, structural and physical properties of some layered
	transition metal oxides, Department of Chemistry, University of Jammu, Jammu (2024).
58.	Ms. Akshita Bandral, Physicochemical studies of some amino acids/dipeptide in aqueous
	solution of drugs, Department of Chemistry, University of Jammu, Jammu (2024).
57.	Ms. Qounsar Jan, Design and Synthesis of Metal doped and Metal Nano particle coupled
	Perovskites for Photochemical and Photoelectrochemical Applications, Department of
	Chemistry, University of Kashmir, J&K (2024).
56.	Ms. Hina Kabeer, Synthesis and Physio-Chemical Characterization of Biorelevant

	Chemical Seaffolds, Department of Chemistry, AMU Aligarh (2024).
55.	Ms. Aaliya Qureashi, Synthesis, characterisation, sensing and removal applications of
	various magnetic composites for the abatement of environmental toxicants, Department
	of Nanotechnology, University of Kashmir, J&K (2024).
54.	Mr. Ankur Kumar, Development of Morphology Controlled Alloy Nanoparticles for
	Electrocatalytic Water Splitting Reaction, Department of Chemistry, University of Delhi,
	Delhi (2024).
53.	Ms. Afreen Iqbal, Synthesis, characterization and biological evaluation of novel
	modified steroidal heterocyclic compounds, Department of Chemistry, AMU Aligarh
	(2024).
52.	Mr. Zia Ul Haq Bhat, Design and Synthesis of Metal-Organic Frameworks (MOFs):
=-	Structural Studies and Applications, Department of Chemistry, AMU Aligarh (2024).
51.	Ms. Maqsuma Banoo, Development of Heteroanionic Metal Oxide Nanostructure for
	Solar and Mechanical Energy Harvesting, Department of Chemical Sciences, IISER
50.	Mohali (2023).  Mr. Sumit Singh, Synthesis, structure and physical properties of some 3d metal
50.	
	containing nano and bulk ferrites, Department of Chemistry, University of Jammu, Jammu (2023).
49.	Ms. Shikha Sharma, Synthesis and characterization of some 3d transition metals
47.	containing nano and bulk perovskite oxides, Department of Chemistry, University of
	Jammu, Jammu (2023).
48.	Mr. Vibhav Katoch, Controlled Synthesis and Applications of Photo-Responsive
	Nanostructures via Microfluidic Technology, Punjab University & INST Mohali (2023).
47.	Mr. Mohammad Osama, Physicochemical Studies on Surfactant-Additive Systems,
	Department of Chemistry, AMU Aligarh (2023).
46.	Mr. Hesam Salimi Shahraki, Synthesis of Carbon Dots Based Nanomaterials From
	Kitchen Waste: Modeling & Applications, Department of Chemistry, AMU Aligarh
	(2023).
45.	Ms. Ishana Kathuria, Synthesis and Applications of Chromogenic Light Controlled
	Probes, Department of Chemistry, University of Delhi, Delhi (2023).
44.	Ms. Ruchika Gupta, Band Gap Engineering of Molecular Architectures Based on
	Metalloligands: Applications in Visible-Light Mediated Catalysis, Department of
42	Chemistry, University of Delhi, Delhi (2023).
43.	Ms. Shazia Nabi, Exploring Metal Nanoparticle and Metal Cage Functionalized Metal
	Organic Frameworks (MOFs) for Catalytic and Electrocatalytic Applications,  Department of Chamistry, University of Kashmir Stringger 100006, 18tk (2023)
42.	Department of Chemistry, University of Kashmir, Srinagar-190006, J&K (2023).  Mr. Irfan Qadir, Synthesis, structure and physical properties of some Ruddlesden-Popper
44.	oxides, Department of Chemistry, University of Jammu, Jammu (2023).
41.	Mr. Himmat Singh, Heteropolyacids Based Heterogeneous Catalysts for the
71.	Transesterification of Triglyceride, School of Chemistry & Biochemistry, Thapar
	Transcrimention of Trigipeories, School of Chemistry & Biochemistry, Thapar

	Institute of Engineering & Technology, Patiala (2023).
40.	Mr. Ramu Naidu Punnana, Synthesis, Characterization and Photocatalytic and
10.	Antibacterial Activity Study of Chitosan based Metal Tungstate (FeWO <sub>4</sub> , CoWO <sub>4</sub> ,
	MnWO <sub>4</sub> ) Composites, Department of Engineering Chemistry, Andhra University,
	Visakhapatnam (2023).
39.	Ms. Harshita Chawla, Development of Bismuth-based Photocatalysts using Sensitizers
	for Waste-Water Treatment, Department of Chemistry, Amity Institute of Applied
	Sciences, Amity University, Noida (2023).
38.	Ms. Ankita Nema, Synthesis and Characterization of Nanoporous Materials of Some
	Metals with Surfactants and Their Applied Applications, Department of Chemistry,
	Doctor Harisingh Gour Vishwavidyalaya, Sagar, M.P. (2022).
37.	Ms. Ruby Ahmed, Design and Development of Novel Sensors for Environmental
	Pollutants, Department of Applied Chemistry, AMU Aligarh (2022).
36.	Ms. Garima Mann, Synthesis and Evaluation of Targeted Agents for Imaging and Drug
	Delivery, Department of Chemistry, University of Delhi, Delhi (2022).
35.	Mr. Murad Z A Warshagha, Synthesis, Characterization and Photocatalytic Performance
	of Heterogeneous Nanocatalysts for the Reaction of Few Selective Organic Compounds,
	Department of Chemistry, AMU Aligarh (2022).
34.	Mr. Ankush, Nanostructured phosphorus-based compounds and their application towards
	electrochemical hydrogen generation, INST & IISER Mohali (2022).
33.	Mr. Md Rabiul Islam, Study of Ionic Liquid-Based Solutions, Department of Chemistry,
	AMU Aligarh (2022).
32.	Ms. Geetanjali, Development and Evaluation of Graphene Oxide-Polymer Based
	Nanocarrier for Improved Targeted Drug Delivery Applications, Indira Gandhi Delhi
	Technical University for Women (IGDTUW), Kashmere Gate, New Delhi (2022).
31.	Mr. Maidul Islam, Synthesis, Spectrophotometric and Structural Studies of New Charge
	Transfer Complexes of Donors and Acceptors in Different Polar Solvents, Department of
20	Chemistry, AMU Aligarh (2022).
30.	Ms. Nikita Gupta, Effect of Synthesis parameters on nanofluid thermo - Physical
	Properties and its Application, University School of Basic and Applied Sciences, Guru
29.	Gobind Singh Indraprastha University, New Delhi (2022).  Mr. Vivek Das, Synthesis, Characterization and Application of Rare Earth-Transition
49.	Metal Heterometallic Silico and Phosphotungstate Polyoxometalates, Department of
	Chemistry, University of Delhi, Delhi (2021).
28.	Mr. Vijay Shekar Pulusu, Co-Fe Prussian Blue Analogue and Silica Supported Acids as
20.	Efficient Catalysts for Certain Electrophilic Aromatic Substitution Reactions under
	Solvothermal and Solvent Free Conditions, Department of Chemistry, Osmania
	University, Hyderabad (Telangana State), India (2021).
27.	Ms. Divya Prabha, Coordination Complexes Offering Hydrogen Bonding Cavities:
	Applications In Sensing and Catalysis, Department of Chemistry, University of Delhi,
L	1 1

	Delhi (2021).
26.	Ms. Archana Yadav, Supramolecular Synthon Approach to Design, Synthesis and
	Physico-Chemical Analysis of Metal-Organic/Orotate Architectures Sustained by
	Hydrogen Bond, NIT Raipur (2021).
25.	Mr. Inderjeet Singh, Synthesis, characterization and application of doped TiO2 nano-
	structures, Special Centre for Nano Science, Jawaharlal Nehru University, New Delhi
	(2021).
24.	Mr. Reetam Kaushik, Organic-Inorganic moieties as templates/linkers in the synthesis of
	lone pair containing polyoxotungstate clusters, Department of Chemistry, University of
	Delhi, Delhi (2021).
23.	Ms. Vandana Prasad, Development of Latent Fingerprint by Using Nanoparticles,
	School of Basic and Applied Sciences, Galgotias University, Greater Noida (2021).
22.	Ms. Shimayali Kaushal, Gold Nanorod Based Nanobiosensor for Sensitive Detection,
	Isolation and Photoablatoni of Food Borne Bacteria, Department of Biotechnology,
	Panjab University, Chandigarh (2020).
21.	Ms. Meenakshi Dutt, Mesoporous Metal Oxides: Synthesis and Potential Applications,
	University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha
20	University, New Delhi (2020).
20.	Ms. Fouzia Mashkoor, Adsorptive Removal of Dyes from Synthetic Wastewater,
10	Department of Applied Chemistry, Aligarh Muslim University, Aligarh (2020).
19.	Ms. Suhasini Kunchakara, Synthesis and Characterization of Functionalized Mesoporous
	Silica Nanoparticles for Sensing Applications, University School of Basic and Applied
18.	Sciences, Guru Gobind Singh Indraprastha University, New Delhi (2020).  Ms. Jaya Lohani, III-V Compound Semiconductor Nanostructures Based
10.	Ms. Jaya Lohani, III-V Compound Semiconductor Nanostructures Based Nanoheterostructures, Department of Chemistry, Indian Institute of Technology Delhi,
	Hauz Khas, New Delhi (2020).
17.	Ms. Meenakshi, Development of Metal Chalcogenide and Alloy Nanostructured
17.	Catalysts for Electrocatalytic and Phtocatalytic Water Splitting Reaction, Department of
	Chemistry, University of Delhi, Delhi (2020).
16.	Ms. Sonam Shakya, Synthesis, Spectrophotometric and Thermodynamic Studies of
	Charge Transfer Complexes of Various Donors and Acceptors, Department of
	Chemistry, Aligarh Muslim University, Aligarh (2020).
15.	Ms. Neeta Pandey, Polymer Nanocomposite and Purification of Water, Ph.D. in
	Nanoscience and Technology, Sharda University, Greater Noida (2020).
14.	Ms. Kehkashan Alam, Synthesis and Spectrophotometric Studies of Charge Transfer
	Complexes of Various Donors and Acceptors in Different Polar Solvents, Department of
	Chemistry, Aligarh Muslim University, Aligarh (2019).
13.	Raj Kumar Mondal, Studies on Radiation Synthesized Conducting Polymeric Nano
	Composites for Chemiresistive Sensors, Bhabha Atomic Research Centre, Homi Bhabha
	National Institute, Mumbai (2019).

- Ravi Kota, Hydrothermal Approach For The Synthesis Of Metal Oxide-Reduced Graphene Oxide Nanocomposites For Biochemical Applications, Department of Organic Chemistry & FDW, Andhra University, Visakhapatnam-530 003, Andhra Pradesh (2019).
- Mr. T. Varaprasad, Synthesis & Optical Characterization of Metal Nano particles Via Green approach and Study of their Applications (Bio-Evaluation, Fluorescence & Catalysis). Department of Organic Chemistry & FDW, Andhra University, Visakhapatnam-530 003, Andhra Pradesh (2018).
- Ms. Peddada Sujatha, Chemical Speciation of L-Glutamine and L-Arginine with Pb(II) and Cd(II) Complexes in Micellar Media, Department of Engineering Chemistry, AU College of Engineering (A), Andhra University, Visakhapatnam-530003, Andhra Pradesh (2018).
- 9. Mr. Varun Arora, Magnetic Nanocomposites for Drug Delivery and Imaging Applications, University School of Basic and Applied Sciences, GGS IP University, New Delhi (2018).
- Ms. Arundhati Barik, Synthesis, Characterization and Evaluation of New Stimuli Responsive Carrier Materials for the Controlled Release of Therapeutic Agents, Department of Chemistry, Ravenshaw University, Cuttack, Orissa (2017).
- 7. Mr. Vivek N. Bhusari, Development of nanostructured adsorbents for removal of Chromium from water, Department of Chemistry, Faculty of Science, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (2017).
- Mr. Jitendra Kumar, Quality Standards Of Carica Papaya Linn. Fruits by using Modern Analytical Techniques, Department of Chemistry (Pharmacy), Faculty of Science, Magadh University, Bodh Gaya (2016).
- Mr. Nurul Hasan, QSTR Study of Nitrobenzene Derivatives against Tetrahymena Pyriformis using Quantum Chemical Descriptors, Dr. Ram Manohar Lohia Avadh University, Faizabad (2015).
- 4. Mr. Rajeev Pradhan, Schiff Base Complexes of O-Vanillin and Anthranilic Acid, Department of Chemistry, Faculty of Science, Magadh University, Bodh Gaya (2015).
- 3. Mr. Santosh Kumar Gupta, Synthesis, characterization and photoluminescence spectroscopy of lanthanide ion doped oxide materials, Bhabha Atomic Research Centre, Homi Bhabha National Institute, Mumbai (2014).
- Ms. Parul Khurana, Facile fabrication, functionalization, optical and structural properties of luminescent core-shell nanoparticles and hollow nanospheres, Department of Chemistry, Banasthali Vidyapith, Rajasthan (2013).
- Ms. Syeed Zeeshaan Fathima (M.Phil), Synthesis and Characterization of Novel Hybrid Ion Exchange Materials Useful in Environmental Analysis, Department of Chemistry, University of Kashmir, Kashmir (2012).

# Project guided at Postgraduate Level: 84

84.	Haider Jung: Synthesis and Characterization of (10/20/30 wt%) BaZrO <sub>3</sub> /GO
	Heterostructures for H <sub>2</sub> Production (2025).
83.	Naveen Garg: Synthesis and Characterization of (10/20/30 wt%) BaZrO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub>
	Heterostructures for H <sub>2</sub> Production (2025).
82.	Divya: Synthesis and Characterization of (10/20/30 wt%) SrZrO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub>
	Heterostructures for H <sub>2</sub> Production (2025).
81.	Najma: Synthesis and Characterization of (10/20/30 wt%) PbZrO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub>
	Heterostructures for H <sub>2</sub> Production (2025).
80.	Md. Jawad: Synthesis and Characterization of (10/20/30 wt%) SrZrO <sub>3</sub> /GO
	Heterostructures for H <sub>2</sub> Production (2025).
79.	Himanshu: Synthesis and Characterization of g-C <sub>3</sub> N <sub>4</sub> /ZnS Heterostructured
	Nanomaterial for H <sub>2</sub> Generation (2024).
<b>78.</b>	Fardin Rafique: Fabrication of ZnS/GO heterojunctions for multifunctional
77.	photochemical and photoelectrochemical hydrogen production (2024).
17.	Iqra Fatima: Chemical strategies to enhance the HER and CRR applications of MOFs and COFs (2023).
76.	Madeeha Khanam: Understanding the Physicochemical Behavior of MXenes towards
700	HER and CO <sub>2</sub> RR Applicability (2023).
75.	Umar Farooq: Recent Advances in TMPs based Catalysts for CO <sub>2</sub> Reduction and H <sub>2</sub>
	Evolution (2023).
74.	Akanksha Sharma: TX-100 Assisted Hydrothermal Synthesis, Structural Characterization and Catalytic Applications of Copper Oxide Nanoparticles (2022).
73.	Rashida Parveen: TX-100 Assisted Hydrothermal Synthesis, Structural Characterization
	and Catalytic Applications of Cobalt Oxide Nanoparticles (2022).
72.	Sheenam Naz: TX-100 Assisted Hydrothermal Synthesis, Structural Characterization
71	and Catalytic Applications of Molybdenum Oxide Nanoparticles (2022).
71.	Aliha Naqvi: Photocatalytic Water Splitting using Graphitic Carbon Nitride Nanostructures (2021).
70.	Anshul Kapila: Photocatalytic Water Splitting using gC <sub>3</sub> N <sub>4</sub> -(CdS/CdSe) Nanostructures
	(2021).
69.	Ritu Kumari: Photocatalytic Water Splitting using gC <sub>3</sub> N <sub>4</sub> -Metal Oxide based
	Nanocomposites (2021).
68.	Seema Shafiq: Photocatalytic Water Splitting using TbMO <sub>3</sub> based Nanostructures
67.	(2021). Shagufta Naaz: Electrocatalytic Water Splitting using Graphitic Carbon Nitride
0/.	Nanostructures (2021).
66.	Shakshi Negi: Photocatalytic Water Splitting using GdMO <sub>3</sub> based Nanostructures
	, , , , , , , , , , , , , , , , , , , ,
	(2021).
65.	(2021).  Deepak: Photocatalytic Water Splitting using MoS <sub>2</sub> /MoSe <sub>2</sub> Nanostructures (2021).
65. 64.	

	sized Tin Oxide (2020).
62.	Mohammad Zaki: Structural Characterization and Catalytic Applications of Chromium doped Tin dioxide Nanoparticles (2020).
61.	Sonali Kalra: Structural Characterization and Catalytic Applications of Strontium doped Tin dioxide Nanoparticles (2020).
60.	Varun: Structural Characterization and Catalytic Applications of $Ti_{1-x}Zn_xO_2$ and $Sn_{1-x}Zn_xO_2$ (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
59.	Khairuz Zaman Ahmed: Structural Characterization and Catalytic Applications of $Ti_1$ - <sub>x</sub> Cu <sub>x</sub> O <sub>2</sub> (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
58.	Shivani: Structural Characterization and Catalytic Applications of Ti <sub>1-x</sub> Sr <sub>x</sub> O <sub>2</sub> (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
57.	Garima Shandilya: Structural Characterization and Catalytic Applications of $Zn_{1-x}Sr_xO$ (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
56.	Hammad Hasan: Structural Characterization and Catalytic Applications of $Zn_{1-x}Ag_xO$ (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
55.	Madiha Ahmad: Structural Characterization and Catalytic Applications of $Zn_{1-x}Mg_xO$ (x = 1, 2.5 & 5 mol%) Nanoparticles (2020).
54.	Ayesha Salmani: Synthesis and Characterization of Cu doped TiO <sub>2</sub> Nanoparticles (2019).
53.	Fahad Jamal: Synthesis and Characterization of Zn doped SnO <sub>2</sub> Nanoparticles (2019).
52.	Rashi Kedia: Synthesis and Characterization of Cr doped SnO <sub>2</sub> Nanoparticles (2019).
51.	Suhail Khan: Synthesis and Characterization of Sr doped TiO <sub>2</sub> Nanoparticles (2019).
50.	Saud Alam: Synthesis and Characterization of Zn doped TiO <sub>2</sub> Nanoparticles (2019).
49.	Faheem Choudhary: Synthesis and Characterization of Sr doped ZnO Nanoparticles (2019).
48.	Arjun Tomar: Synthesis and Characterization of Sr doped SnO <sub>2</sub> Nanoparticles (2019).
47.	Shamsee Mehzabin: Synthesis and Characterization of Ag doped ZnO Nanoparticles (2019).
46.	Atiba Shamsi: Synthesis and Characterization of Ag doped SnO <sub>2</sub> Nanoparticles (2019).
45.	Yogesh: Synthesis and Characterization of Mg doped ZnO Nanoparticles (2019).
44.	Ms. Priyanka: Synthesis, Characterization and Application of Ag and Cu doped WO <sub>3</sub> Nanoparticles (2019).
43.	Farheen Naz: Synthesis, Characterization and Application of SrZrO <sub>3</sub> -CdS Nanocomposites (2018).
42.	Salman Ahsan: Synthesis, Characterization and Dielectric Properties of LaMO <sub>3</sub> (M= Fe, Co) Nanoparticles (2018).
41.	Syed Asim Ali: Synthesis, Characterization and Dielectric Properties of Y <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Nanocomposites in low Yttiria Region (2018).
40.	Iftkhar Ahmad: Synthesis, Characterization and Dielectric Properties of Yttria-Titania Nanocomposites in low Titania Region (2018).
39.	Raseed Ahmad: Maltose Assisted Synthesis, Characterization and Application of Silver Nanoparticles (2018).
38.	Meenakshi Tayal (Galgotia University): Synthesis and Characterization of ZnO Nanostructures using Non-ionic Surfactant and PVP as Stabilizing Agent. (Semester

	Project: 2018)
37.	Ashwin Chaturvedi (IISER Kolkata): Catalytic and photocatalytic water splitting using
	Ag-Ni Alloy nanoparticles (Summer Project: 2017)
36.	Ayesha: Synthesis and Characterization of Silver Nanoparticles by Wet Chemical
	Method (2017).
35.	Chanmeet Kaur: Ascorbic Acid Assisted Synthesis, Characterization and Application of
	Copper Nanoparticles (2017).
34.	Sayed Khadija Bari: Amino Acid Assisted Synthesis, Characterization and Application
	Silver Nanoparticles (2017).
33.	Ms. Mustri Bano (Dr. H.S. Gaur Sagar University): Various aspects of nanomaterials
	(Winter Project: 2017).
32.	Mohd Monis Ayyub: Synthesis and Characterization of Copper Ferrite Nanoparticles
	(2016).
31.	Veenu: Biosynthesis, Characterization and Catalytic Degradation of Methylene Blue
	using Silver Nanoparticles (2016).
30.	Aalok Tiwari: Synthesis and Characterization of Lanthanum Aluminate Nanoparticles
	using Polymeric Citrate Precursor Method (2016).
29.	Antara Sarkar: Solvothermal Synthesis and Characterization of Manganese doped
	Cadmium Sulphide Nanoparticles (2016).
28.	Mr. Rishab Jain, (Galgotia University): Synthesis schemes for the fabrication of metal
	ferrite, lanthanum aluminate and manganese doped cadmium sulphide nano particles
	(Winter Project: 2017).
27.	Medha Upadhyay: Polymeric Citrate Precursor Synthesis, Structural Characterization
	and Properties of Nanocrystalline TiO <sub>2</sub> (2015).
26.	Parvez Alam: Synthesis, Characterization and Dielectric Properties of CuCrO <sub>2</sub>
	Nanoparticles (2015).
25.	Khagesh Vashisth: Dielectric properties of nanosized Y <sub>2</sub> O <sub>3</sub> developed by citrate
	precursor route (2015).
24.	Vipul Shrivastava: Hydrothermal Synthesis and Characterization of Iron Oxide
22	Nanoparticles (2014).
23.	Mugdha Aggarwal: Polymeric Citrate Precursor Synthesis, Characterization and
22	Dielectric Properties of TiO <sub>2</sub> and ZrO <sub>2</sub> based Nanocomposites (2014).
22.	Aina Kahol: Dielectric Properties of Zirconia and Ceria based Nanocomposites
21.	developed using Citrate Precursor Route (2013).  Aabid Hamid: Synthesis, Characterization and Dielectric Properties of Ceria (CeO <sub>2</sub> )
41.	Nanoparticles (2013).
20.	1 '
<b>4</b> 0.	Umar Farooq: Synthesis, Characterization and Dielectric Properties of Zirconia (ZrO <sub>2</sub> ) Nanoparticles (2013).
19.	Ms. S. Maragadham (Delhi University): Literature review and Synthesis of Multiferroic
17.	Compounds (Summer Project: 2012).
	Compounds (building 110ject. 2012).

18.	Ajay Wadhwani: Nanocrystalline multi-ferroic compounds (2012).
17.	Saima Afzal: Zirconium based dielectric oxide nanoparticles (2012).
16.	Ms. Prabhjyot Bhui: A Study of Ba <sub>1-X</sub> (Sr,Pb) <sub>x</sub> ZrO <sub>3</sub> Nanoparticles by Sonochemical and
	Reverse Micellar Routes (Full Project 2011).
15.	Ms. Niharika Swain: Comparative Study of Pb-Doped BaZrO <sub>3</sub> Nanoparticles Obtained
	from Sonochemical and Microemulsion Routes (Full Project 2011).
14.	Mr. Mohammad Ehtisham Khan (AMU Aligarh): Sonochemical Synthesis of
	Nanocrystalline BaZrO <sub>3</sub> , PbZrO <sub>3</sub> and SrZrO <sub>3</sub> Phases and their Characterization (Summer
	Project: 2011).
13.	Ms. Samya Naqvi (IP University): Sonochemical Processing of $Ba_{1-X}Pb_xZrO_3$ ( $x = 0.05$ ,
	0.10 & 0.15) Nanoparticles (Summer Project: 2011).
12.	Zeba: Reverse Micellar Synthesis and Characterization of $Ba_{1-X}Pb_xZrO_3$ (x = 0.05, 0.10,
	0.15 and 0.20) Nanoparticles (2011).
11.	Saami Ahmad: Reverse Micellar Synthesis of Barium Strontium Zirconate (Ba <sub>1-</sub>
	<sub>x</sub> Sr <sub>x</sub> ZrO <sub>3</sub> Nanoparticles and their Characterization (2011).
10.	Ms. Neelanchali Asija (IP University): Citrate Precursor Synthesis, Characterization and
	Dielectric Properties of Sr-doped Ba $ZrO_3$ (x = 0, 0.25, 0.50, 0.75 and 1.0) Nanoparticles
	(Summer Project: 2010).
9.	Deepti Swarup: Synthesis, Characterization and Dielectric Properties of Nanosized Ba <sub>1</sub> .
	xPb <sub>x</sub> ZrO <sub>3</sub> (x=0,0.25,0.50,0.75 &1.0) using Polymeric Citrate Precursor Route (2010).
8.	Qysar Maqbool: Polymeric Citrate Precursor Synthesis, Characterization and Dielectric
	Properties of Nanocrystalline $Ba_{1-x}Sr_xZrO_3$ (x = 0, 0.25, 0.50, 0.75 and 1.0) (2010).
7.	Awaneesh Kr Upadhyay (IP University): Synthesis of Cadmium Oxide Nanoparticles
	using Oxalate Precursor Route (Summer Project: 2009).
6.	P. Shakti Prakash (IP University): Synthesis of Cadmium Oxide Nanoparticles using
_	Sol-Gel and Sonochemical Methods (Summer Project: 2009).
5.	Md. Razi Akhtar: Synthesis of ZnO Nanoparticles (2009).
4.	Pallavi Singh: Dilute Magnetic Semiconductors (2008).
3.	Shruti Sharma: An Understanding of Multiferroics (2008).
2.	Mohd. Imran: A Chemical Approach and Comparative Study of Barium Meta Titanate
	Nanoparticles (2008).
1.	Ibrahim Dar: Sonochemistry: A versatile route to the synthesis of nano-particles (2007).

## **Keynote/Invited Lectures: 200**

200.	Nanocatalysis: A Powerful Tool for Renewable Energy
	3 <sup>rd</sup> International Conference on Advanced Materials and Equipment Manufacturing
	(AMEM2024) organized online at Kunming, China.
	December 30, 2024
199.	Functional Heterostructures for Sustainable Hydrogen Generation via Overall Water
	Splitting

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	International Conference on Cutting-edge Science for Sustainable Development (ICCSSD-2024) organized by Department of Chemistry & Biochemistry, Sharda School of Basic Sciences and Research (SSBSR), Sharda University, Greater Noida, India. December 20, 2024
198.	Chemistry of Heterogeneous Catalysis for Sustainable Green Hydrogen Energy Conference on Advances in Catalysis for Energy and Environment (CACEE-2024) organized by TIFR Mumbai. December 18, 2024
197.	Sustainable Energy Resources for Carbon-Neutrality Realization through Heterogeneous
	Catalysis
	1 <sup>st</sup> International Conference on Innovation at the Interface: Chemistry, Biotechnology, & Beyond (IICB-2024) organized by Samarpan Science and Commerce College, Gandhinagar, in collaboration with Pandit Deendayal EnergyUniversity, Gandhinagar. December 13, 2024
196.	Recent Advancements in Functional Materials for CO <sub>2</sub> Conversion into Value-added
	Fuels
	International Conference on Carbon Capture and Utilization 2024 (ICCCU-24) organized
	by JNCASR, Bangalore. December 11, 2024
195.	Designing Heterogeneous Catalysts for Scalable Hydrogen Energy Evolution
	11 <sup>th</sup> Global Webinar on Applied Science, Engineering and Technology organized by The
	Global Scientific Guild Conferences.
	November 26, 2024
194.	Designing of Advanced Materials for Sustainable Hydrogen Energy using Heterogeneous
	Catalysis National Conference on Innovative Approaches in Industrial Chemistry for Eco-friendly Solutions (IIES-24) organized by Department of Industrial Chemistry, AMU Aligarh. November 23, 2024
193.	Advanced Materials based Heterogeneous Catalysis for Sustainable Energy
	International Conference on "Emerging Trends in Functional Materials in Sciences" under the auspices of "Indian Society of Analytical Scientists-Delhi Chapter" organized by Department of Chemistry, Maharshi Dayanand University, Rohtak, Haryana.  November 22, 2024
192.	Functional Materials for Scalable Hydrogen Evolution using Overall Water Splitting
	2 <sup>nd</sup> International Conference on Nanotechnology and Multifunctional Structures
	(ICNMS2024) organized Online at Xiamen, China. November 21, 2024
191.	Chemical Synthesis of Advanced Materials for Energy Applications
	Workshop on Advanced Materials & Sustainable Energy (WAMSE-2024) in association
	with Society for Materials Chemistry, Mumbai (Delhi Chapter) and ANRF, New Delhi.
	November 16, 2024
190.	Development of Functional Heterostructured Nanocatalysts for Green Hydrogen
	Generation World Symposite and European Polymore and Composite Materials (WSEDCM 2024)
	World Summit and Expo on Polymers and Composite Materials (WSEPCM-2024) organized at the Holiday Inn Rome Eur Parco dei Medici, Rome, Italy.
	November 16, 2024
	110.000001 10, 2021

189.	Green H <sub>2</sub> Energy using Photo- and Electro-Chemical Water Splitting International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM) organized Indian Institute of Science Education and Research (IISER) Berhampur. November 12, 2024
188.	Scalable Green Hydrogen Energy Production through Heterogenous Catalysis 6 <sup>th</sup> Edition of Electronics and Electrical Engineering Virtual (V-EEE2024) organized by Sciwide Webinars.  November 8, 2024
187.	Role of Catalysis for Sustainable Hydrogen Energy Online RC Basic Sciences (Interdisciplinary) organized by UGC-Malaviya Mission Teacher Training Centre, JMI New Delhi. November 6, 2024
186.	Smart Heterostructures for Scalable Hydrogen Production using Overall Water Splitting 6 <sup>th</sup> Edition of Catalysis, Chemical Engineering and Technology Virtual (V-CHEM2024) organized by Sciwide Webinars.  November 1, 2024
185.	Scalable Hydrogen Energy Production through Overall Catalysis using Water Splitting 2 <sup>nd</sup> Global Webinar on Renewable and Sustainable Energy organized by The Global Scientific Guild Conferences.  October 31, 2024
184.	Nano Catalysis for Sustainable Hydrogen Production  1 <sup>st</sup> Short Term Course in Physical, Chemical & Nano Sciences organized by UGC-Malaviya Mission Teacher Training Centre, JNU New Delhi.  October 24, 2024
183.	Advanced Heterostructures for Sustainable Hydrogen Energy 2 <sup>nd</sup> Global Meet on Materials Science & Nanoscience (MAT2024) organized by Sciwide Webinars.  October 22, 2024
182.	Role of Catalysis in Green Energy Inaugural Function of RASGANDHAYAN organized by The Chemical Society, Department of Chemistry, Gargi College, University of Delhi. October 19, 2024
181.	Advanced Nanomaterials based Heterogeneous Catalysis for Sustainable Green Energy 3 <sup>rd</sup> International Conference on Advanced Nanomaterials and Nanotechnology organized by Sci Synopsis, London, UK. October 11, 2024
180.	What, Why and How Hydrogen Production using Functional Nanomaterials Global Research Conference on Catalysis and Chemical Engineering Technology (CATCHEM2024) organized by FOSTER Research Group at Munich, Germany. September 25, 2024
179.	Designing Advanced Heterostructured Nanocatalysts for Scalable H <sub>2</sub> Production 19 <sup>th</sup> Edition of International Conference on Catalysis, Chemical Engineering & Technology (CAT 2024) organized by Magnus Group Conferences at Rome, Italy. September 21, 2024
178.	Nano, Catalysis and Hydrogen Energy 8 <sup>th</sup> Edition of Nanotechnology and Nanomaterials Virtual (V-NANO2024) organized by

	0 ' '1 W/1'
	Sciwide Webinars.
	September 14, 2024
177.	Nano-Catalysis for Scalable Green Hydrogen Energy Production
	SPARC workshop on Catalysis for Energy and Environment Technology 2024
	(SWCEET2024) organized by D/o Physics, Central University of Rajasthan, Ajmer.
	September 11, 2024
<b>176.</b>	Sustainable Hydrogen Evolution by Functional Materials based Overall Water Splitting
	International Symposium on Semiconductor Materials and Devices (ISSMD-2024)
	organized by University of Kashmir, Srinagar with IUST Awantipora.
	September 6, 2024
175.	Catalysis for Sustainable Green Energy
	Faculty Development Program (FDP) on "Recent Innovation and Novel Concepts for
	Sustainable Development (RINCSD-2024)," organized by Galgotias College of
	Engineering & Technology, Greater Noida.
	July 22, 2024
174.	Scalable Green Hydrogen Production using Photo- and Electro-Chemical Water Splitting
	International Conference on Energy and Environmental Materials (E2M-2024) organized
	by MEMS, IIT Indore, MP.
	July 11, 2024
173.	Smart Heterostructures for Scalable Hydrogen Production
	International Conference on Emerging Multifunctional Materials and Devices for
	Sustainable Technologies (IEMDST-2024) organized by NIT Warangal, Telangana.
	July 4, 2024
172.	Synergistic Role of Nanocatalysts in H <sub>2</sub> Evolution using Chemical Water Splitting
	International Seminar on New Age Technologies in Therapeutics organized by PB
	Siddhartha College of Arts & Science, Vijayawada, Andhra Pradesh.
	July 2, 2024
171.	Functional Heterojunctions Nanocatalysts for Scalable Hydrogen Production
	18th Edition of International Conference on Catalysis, Chemical Engineering and
	Technology (CCT 2024) organized by Magnus Group Conferences at Paris, France.
	June 18, 2024
170.	Hydrogen as Sustainable Energy using Nanocatalysis
	One Week Faculty Development Program (FDP) on "Sustainable & Alternate Energy
	Resources" organized by Amity School of Applied Sciences.
	June 17, 2024
169.	Functional Materials for Scalable Hydrogen Production
	Global Webinar on Renewable and Sustainable Energy organized by Global Scientific
	Guild.
	June 12, 2024
168.	Nanocatalysis for Renewable Energy
	Faculty Development Programme (online) on Fabrication and Characterization of
	Nanomaterials for Device Applications organized by K. R. Mangalam University in
	association with University of Delhi.
	June 1, 2024
167.	Sustainable Hydrogen Evolution using Photo- and Electro-Chemical Water Splitting
	International Conference on Chemistry (Chemistry 2024) organized by Aver Conferences

	La Training Touring
	in Tokyo, Japan.
1//	April 27, 2024
166.	Sustainable Green Hydrogen Evolution using Water Splitting
	5 <sup>th</sup> Edition of Catalysis, Chemical Engineering and Technology Virtual (V-
	Chemical2024) organized by Sciwide Webinars.
4 . =	April 19, 2024
165.	Advanced Heterostructures for Scalable Hydrogen Production using Overall Water
	Splitting To the District Company of the Company of
	International Conference "Emerging Trends in Photodynamics and Photocatalysis (ETPP-
	2024)" organized by Indian Institute of Science Education and Research (IISER) Mohali.
	March 26, 2024
164.	Functional Heterostructures for Scalable Green Hydrogen Energy Production
	7 <sup>th</sup> Edition of Renewable and Sustainable Energy Virtual (V-Renewable2024) organized
	by Sciwide Webinars.
	March 22, 2024
163.	Functional Nano-Materials for Scalable Green Hydrogen Production
	Global Meet on Nanotechnology and Nanomaterials (NTNM-2024) organized by Science
	Wide Conferences.
	March 21, 2024
162.	Sustainable and Scalable H <sub>2</sub> Production through Binary Functional Heterostructured
	Nanocatalysts
	International Symposium on Materials Science (ISMS 2024) organized by Department of
	Physics, Central University of Rajasthan, Ajmer, Rajasthan
4 . 4	March 11, 2024.
161.	Nanocatalysis: A Sustainable Route for Green Energy
	Refresher Course in Chemistry organized by University of Jammu, Jammu.
1.00	February 24, 2024
160.	Nanomaterials: The Synthesis Aspects by Chemical Routes
	Refresher Course in Chemistry organized by University of Jammu, Jammu.
150	February 23, 2024
159.	Nanochemistry: Fundamentals and Basic Concepts
	Refresher Course in Chemistry organized by University of Jammu, Jammu.
150	February 23, 2024
158.	Smart Heterojunction Nanocatalysts for Scalable Hydrogen Evolution
	18th Asian Conference on Solid State Ionics (ACSSI-2024) organized by Materials
	Research Centre, Coimbatore and Meenakshi College for Women, Kodambakkam, Chennai.
157	February 20, 2024  Dayslaning Advanged Nano sized Heterostructures for Sustainable Hydrogen using
157.	Developing Advanced Nano-sized Heterostructures for Sustainable Hydrogen using Overall Catalysis
	National Conference on Emerging Trends and Future Challenges in Chemical Sciences,
	ETFC-2024 (ETFC24) organized by Kirori Mal College, University of Delhi.
	February 13, 2024
156.	Smart Heterojunction Nanocatalysts for Scalable Hydrogen Evolution
130.	International Conference on Nanotechnology and Multifunctional Structures
	(ICNMS2023 & AMEM2023) at Wuhan, China.
	(ICIVIVIS2023 & AIVIEWI2023) at Wullall, Clillia.

	December 29, 2023
155.	Binary Heterojunctions as Nanocatalysts for Scalable Hydrogen Production through
155.	Overall Water Splitting
	6 <sup>th</sup> International Conference on Recent Trends in Materials and Devices (ICRTMD-2023)
	organized by Amity University, Uttar Pradesh, Noida.
	December 20, 2023
154.	Scalable Hydrogen Energy Production through Overall Catalysis using Advanced
134.	Heterojunction Nanomaterials
	V-Power2023-2 <sup>nd</sup> Edition of Power and Energy Engineering Virtual organized by
	SciWide Webinars.
152	December 15, 2023
153.	Graphitic Carbon Nitride based Binary Heterostructures for Significant Sustainable
	Hydrogen Production through Overall Catalysis
	MRSI Medal Lecture in 34 <sup>th</sup> Annual General Meeting and 5 <sup>th</sup> Indian Materials Conclave
152	December 14, 2023
152.	Fabricating Heterostructured Nanocatalysts for H <sub>2</sub> Generation using Overall Water
	Splitting
	International Meeting on Energy Storage Devices (IMESD 2023) and Industry-Academia
	Conclave organized by Indian Institute of Technology (IIT), Roorkee.
4 = 4	December 7, 2023
151.	Designing Advanced Nanomaterials for Selected Organic Transformations and Water
	Splitting Applications
	ASET2023-Global Meet on Applied Science, Engineering and Technology organized by
	SciWide Webinars.
150.	November 23, 2023 Advanced Heterostructured Nanomaterials for H <sub>2</sub> Generation using Overall Catalysis
150.	Nanomaterials-2023 2 <sup>nd</sup> International Conference on Advanced Nanomaterials and
	Nanotechnology at Vienna, Austria.
	November 21, 2023
149.	Engineered Heterojunctions for Scalable Hydrogen Production
149.	V-MECH2023-2 <sup>nd</sup> Edition of Mechanical and Aerospace Engineering Virtual organized
	by SciWide Webinars.
	November 10, 2023
148.	Designing Advanced Heterostructures for Photo- and Electrochemical Water Splitting
170.	Applications
	V-REN2023- 6 <sup>th</sup> Edition of Renewable and Sustainable Energy Virtual organized by
	SciWide Webinars.
	November 3, 2023.
147.	Designing Heterostructured Systems for Efficient Solar to Hydrogen Energy Conversion
17/	SUN-2023 Hybrid Conference organized at DoubleTree by Hilton, San Francisco, USA
	by United Scientific Group.
	October 31, 2023
146.	Heterostructured Functional Materials for Hydrogen Generation
170.	PCM&GNN 2023- 5 <sup>th</sup> International Conference on Graphene and Novel Nanomaterials
	organized online at Shenzhen, China.
	October 29, 2023
	000000 27, 2023

145.	Designing of Nano-sized Heterostructures for Hydrogen Production using Overall Water
	Splitting Catalysis 2023 organized by Magnus Group Conferences at Boston, Massachusetts, USA.
	October 28, 2023
144.	Making Heterostructured Nanocatalysts for Hydrogen Generation
	International Conference on Materials for Energy & Sustainable Development (MESD 2023) organized by Jawaharlal Nehru University New Delhi.
	October 27, 2023
143.	NANO: Science at Small Scale & Future Route for Sustainable Energy
	Public Lecture organized by Chemical Society "Tatva", Hindu College, Delhi University. October 17, 2023
142.	Hydrogen Generation through Overall Water Splitting using Functional Heterostructures
1.2.	International Conference on "Integrative Chemical Science for Health and Environment
	(ICHE-2023)" organized by Deshbandhu College, University of Delhi, New Delhi.
1.41	October 7, 2023
141.	Designing Semiconducting Nanocatalysts for Sustainable H <sub>2</sub> Generation 2 <sup>nd</sup> International Meet & Expo on Materials Science and Nanomaterials Webinar
	(MaterialsMeet2023), Lisbon, Portugal.
	September 18, 2023
140.	Binary Heterostructured Nanocatalysts for Sustainable H <sub>2</sub> Generation
	International Conference on "Advancement in Physical Sciences: Promoting Societal
	Welfare, Sustainable Development and NEP-2020" organized by Sridev Suman Uttarakhand University, Pandit Lalit Mohan Sharma Campus Rishikesh, Uttarakhand.
	September 15, 2023
139.	Hydrogen Generation through Overall Water Splitting using Functional Nanocatalysts
	V-Applied2023- 9 <sup>th</sup> Edition of Applied Science, Engineering and Technology Virtual
	organized by SciWide Webinars. September 1, 2023
138.	Heterostructured Nanomaterials for Green Energy
	3 <sup>rd</sup> International Conference on Nanomaterials and Nanotechnology (Nanomaterials
	2023) at Melbourne, Australia organized online by Pulsus organization, London UK.
137.	August 28, 2023
137.	Nanocatalysis Faculty Development Program (FDP) cum Workshop: Frontiers in Multidisciplinary
	Research organized by School of Basic Sciences, Galgotias University, Noida.
	August 18, 2023
136.	Multifunctional Materials for Selective Organic Transformations and Sustainable
	Hydrogen Evolution The 4th International Workshop on Advanced Materials and Devices (IWAMD 2023)
	organized at Thai Nguyen University, Vietnam.
	August 12, 2023
135.	Carbon Nitride Nanosheets based Advanced Heterostructures for Sustainable H <sub>2</sub> Energy
	Global Tech Summit 2023 (Nano science), Paris, France
134.	July 4, 2023 From Synthesis to Characterization: Exploring Research Methodologies in
157.	Nanochemistry.

	One-Week International Workshop on Research Methodology and IPRs (Blended Mode) organized by Govt. Degree (PG) College, Bhaderwah, J&K.
	June 25, 2023
133.	Graphitic Carbon Nitride based Functional Heterostructures for Sustainable Green Energy V-Electrical2023-3 <sup>rd</sup> Edition of Electronics and Electrical Engineering Virtual organized by Sciwide Webinars.  June 23, 2023
132.	Designing Heterostructured Nanocatalysts for Sustainable Hydrogen Energy through
132.	Overall Water Splitting Scientific talk organised by School of Chemical Sciences, IIT Mandi, Himachal Pradesh. June 19, 2023
131.	Hydrogen Energy via Overall Water Splitting using Functional Nanomaterials
101.	V-Chemical2023-3 <sup>rd</sup> Edition of Catalysis, Chemical Engineering and Technology Virtual organized by Sciwide Webinars.  June 16, 2023
130.	g-C <sub>3</sub> N <sub>4</sub> based Heterostructures for Sustainable Green Energy
	ISMMM2023 International Summit on Magnetism and Magnetic Materials Webinar organied Spectrum Conferences.  June 12, 2023
129.	Designing Nanocatalysts for H <sub>2</sub> Generation and Organic Transformations
12).	V-MAE2023 Mechanical and Aerospace Engineer Virtual organized by Sciwide
	Webinars.
	June 9, 2023
128.	Designing Materials for Nanocatalysis
1201	15 <sup>th</sup> Edition of International Conference on Catalysis, Chemical Engineering and Technology (CCT 2023) organized by Magnus Group Conferences at Tokyo, Japan.
	May 23, 2023
127.	Chemistry and Designing of Heterostructured Nanomaterials for Sustainable Hydrogen
	Energy and Photocatalysis for Water Treatment  SERB analysis of John Water and Materials for Photocatalysis and Water
	SERB sponsored 7-days workshop on Advanced Materials for Photocatalysis and Water Treatment organized by Pandit Deendayal Energy University, Gandhinagar, Gujarat.
	May 22, 2023
126.	Sustainable Hydrogen Production through Overall Water Splitting using Advanced
120.	Heterostructured Nanocatalysts
	International Hybrid Conference on Nano Structured Materials and Polymers (ICNP)
	2023) organized by Mahatma Gandhi University, Kottayam, Kerala
	May 14, 2023
125.	g-C <sub>3</sub> N <sub>4</sub> based Heterostructured Nano-Materials for Sustainable H <sub>2</sub> Energy
	International Conference on Advanced Materials for Emerging Technologies (ICAMET-
	2023) organized by D/o Physics, Netaji Subhas University of Technology, New Delhi.
	May 5, 2023
124.	Designing Functional Heterostructured Nanocatalysts for Sustainable Green Hydrogen
	Energy
	Public Lecture under G20 Mission organized by Department of Chemistry, Dr. H.S. Gour
	Central University, Sagar, M.P.
	April 28, 2023

123.	Binary and Ternary Heterostructured Nanomaterials for Catalysis in H <sub>2</sub> Generation International Conference on Nanomaterials and Nanotechnology organized by Sci Synopsis, Paris, France. March 28, 2023
122.	Designing Nano-sized Heterostructures for Catalysis 6 <sup>th</sup> Global Webinar on Applied Science, Engineering & Technology (WEBAS-2023) organized by InovSciTech, Bangalore, India March 25, 2023
121.	Nanocatalysis for Hydrogen Generation European Congress on Chemistry and Applied Sciences & International Conference on Catalysis and Chemical Engineering organized by Sci Synopsis, Rome, Italy. March 20, 2023
120.	Designing Heterostructured Nano-Materials for Sustainable Green Energy National Conference on "Scientific Innovation for Human Wellbeing" organized by Department of Chemistry, University of Delhi and the Indian Science Congress Association (ISCA), Delhi Chapter. March 17, 2023
119.	Heterojunctions Nanocatalysts for Overall Water Splitting to Produce H <sub>2</sub> Fuel 5 <sup>th</sup> International Conference on Material Science and Technology (Virtual) organized by Conference Mind.  March 16, 2023
118.	Theory, Instrumentation & Applications of XRD DST STUTI ICT 7 Days training program on "Insights into the Applications of High-End Instruments for Chemical Sciences" organized by Thapar Institute of Engineering & Technology, Patiala, Punjab. February 26, 2023.
117.	SMC Bronze Medal Award Lecture on "Designing Heterostructured Nanocatalysts for Hydrogen Generation using Overall Water Splitting"  DAE-BRNS 9 <sup>th</sup> Interdisciplinary Symposium on Materials Chemistry (ISMC-2022) at DAE Convention Centre, Anushaktinagar, Mumbai.  December 9, 2022
116.	Plenary lecture on "Designing of Functional Nano-Materials for Hydrogen Production using Overall Water Splitting Phenomenon" V-NTNM2022, 5 <sup>th</sup> Edition of Nanotechnology and Nanomaterials Virtual organized by Sciwide Webinars. December 9, 2022
115.	Designing Multifunctional Nanostructures for H <sub>2</sub> Energy Applications 13 <sup>th</sup> Edition of International Conference on Catalysis, Chemical Engineering and Technology (Catalysis 2022) organized by Magnus Group LLC, Orlando, USA. October 22, 2022
114.	Designing Materials for Nanocatalysis International Webinar on Catalysis and Chemical Science organized by IRIS Scientific Group, Rome, Italy. October 03, 2022
113.	Nanocatalysis: An Approach for Hydrogen Production through Water Splitting and Organic Transformations

	International Webinar on "Trends in Nanotechnology" organized by Interdisciplinary
	Nanotechnology Centre, AMU Aligarh.
	October 1, 2022
112.	Designing Nanostructures for Heterogeneous Catalysis
112.	The 9th Global Conference on Polymer and Composite Materials (PCM 2022)
	&GNN2022), Shenzhen, China.
	September 18, 2022
111.	Advanced Nano-Materials for Catalytic Water Splitting Reactions
111.	V-Electrical 2022, 2 <sup>nd</sup> Edition of Electronics and Electrical Engineering Virtual organized
	by Sciwide Webinars.
	August 19, 2022
110.	Chemistry of Advance Nanostructures: Concept of Nanocatalysis and Hydrogen Energy
110.	Generation
	3rd Online 2-Week Refresher Course in Basic Sciences organized by The Human
	Resource Development Centre, Jamia Millia Islamia, New Delhi.
	August 10, 2022
109.	Designing Materials for Nanocatalysis in Organic Conversions and Water Splitting
	Reactions
	V-CCET2022, 2 <sup>nd</sup> Edition of Catalysis, Chemical Engineering and Technology Virtual
	organized by Sciwide Webinars.
	August 5, 2022
108.	Nanocatalysis: Tools & Challenges in Chemistry
	International Conference on Ultrasonics and Materials Science for Advanced Technology
	organized by Telangana University, Nizamabad, Telangana.
	August 2, 2022
107.	Tools & Challenges in Nanocatalysis
	V-Materials 2022, 5th Edition of Materials Science & Nanoscience Webinar organized by
	Sciwide Webinars.
	July 30, 2022
106.	Chemistry of Nanocatalysis
	A National Webinar organized by PG Department of Chemistry, Govt. Postgraduate
	Degree College, Bhaderwah, J&K.
	July 28, 2022
105.	Nanochemistry for Nano and Organo Catalysts
	National Level Webinar on "Nanotechnology as a Tool for Catalysts" organized by
	Government College for Women Nawakadal, Srinagar.
10.1	June 07, 2022
104.	Exploring Inorganic Metal Oxide Nanocatalysts for H <sub>2</sub> Energy Generation
	3 <sup>rd</sup> Series Energy, Virtual Conference organized by Conference Mind.
102	May 17, 2022
103.	Designing Nanocatalysts for H <sub>2</sub> Energy Generation and Heterogeneous Organic
	Transformation Reactions
	11 <sup>th</sup> Edition of International Conference on Catalysis, Chemical Engineering and
	Technology, Tokyo, Japan.
102.	May 17, 2022  Designing Inorganic Metal Oxide Nanostructures for Bi-Catalysis
102.	Designing morganic Metal Oxide Nanostructures for Di-Catalysis

	Global Conference on Nanoscience, Nanotechnology & Advanced Materials organized by
	Conference Mind.
404	April 18, 2022
101.	Nanostrcutures for Organic Transformations and Water Splitting Reactions for Hydrogen
	Energy
	V-EEE2022   Electronics and Electrical Engineering Virtual organized by Sciwide
	Webinars.
100	March 25, 2022
100.	Designing Materials for Nanocatalysis
	Two Week Research Orientation Program on "Research prospectus in the Present Era"
	organized by Sri Pratap College During March 7-20, 2022.
00	March 14, 2022
99.	Ordinary Nanocatalysts for Organic Transformations and Hydrogen Generation
	Applications
	3 <sup>rd</sup> International Web Conference on Material Science and Technology organized by Conference Mind.
	March 07, 2022
98.	Nanotechnology: Science at Small Scale
70.	Popular Science Lecture organized by ABES Engineering College, Ghaziabad.
	February 17, 2022.
97.	Fabrication of Metal Oxide based Nanocatalysts for Water Splitting and Heterogeneous
	Organic Transformations
	MRSI-AGM Conclave 2021 organized by IIT Chennai.
	December 22, 2021.
96.	Advanced Materials for Catalytic Water Splitting and Heterogeneous Organic
	Conversions
	2nd International Conference and Exhibition on Materials Science and Engineering
	organized by Conference Series LLC Ltd Singapore.
	December 03, 2021.
95.	Development of Nanocatalysts for Water Splitting and Selected Organic Transformations
	First International Conference on Technologies for Smart Green Connected Society 2021
	on Materials, Micro & Nano systems   Materials   Microsystems and Nanotechnology.
0.4	November 30, 2021.
94.	Common Nanocatalysts for Water Splitting and Heterogeneous Organic Transformations
	International Hybrid Meeting on "Physics and Chemistry of Advanced Materials
	(PCAM)" organized at IIT Delhi and Kasauli (HP).
93.	October 27, 2021. Science of Nanomaterials: A Perspective
73.	Online Refresher Course, UGC-Human Resource Development Centre (Academic Staff
	College), Jamia Millia Islamia, New Delhi.
02	October 09, 2021.  Designing Multifunctional Nanostructures for H. Energy Applications and Organic
92.	Designing Multifunctional Nanostructures for H <sub>2</sub> Energy Applications and Organic Transformation Reactions
	International Conference on Advanced Materials for Next Generation Applications
	organized by Division of Chemistry, School of Basic and Applied Sciences, Galgotias
	University, Greater Noida, Uttar Pradesh.
	Chrystoley, Olemer Holda, Chair Fladesh.

	September 30, 2021
91.	Powder X-Ray Diffraction: Theory, Technique & Instrumentation Two-Day National Workshop on "Modern Tools and Techniques in Chemical Sciences" organized by Department of Chemistry, Islamic University of Science and Technology (IUST), Awantipora, Kashmir. September 24, 2021.
90.	Nanocatalysts for H <sub>2</sub> Energy Generation and Organic Transformations Hybrid Biennial International Conference on Nanotechnology for Better Living (NBL-21) organized by National Institute of Technology Srinagar, Kashmir September 8, 2021
89.	Smart Nanostructures for Smart Applications  2 <sup>nd</sup> International Webinar on Material Science and Technology organized by Conference Mind.  May 21, 2021.
88.	Smart Nanostructures for Multifunctional Properties and Applications V-Materials 2021 "2nd Edition of International Materials Science & Nanoscience Webinar" organized by Sciwide Webinars. April 16, 2021.
87.	Fabrication, Structural Characterization and Applications of Some Advanced Nanomaterials Webinar on Nanotechnology (Nano-2021) organized by Endeavor Research Private Limited, San Jose, California, USA. March 23, 2021.
86.	Nanotechnology: Present Status and Future Perspectives International Online Conference of Chemistry on "Cutting Edge Research in Chemistry and Sustainable Environmental Solutions (CERChE-2021)" organized by Chitkara University, Chandigarh. February 20, 2021
85.	Chemistry of Smart Nanostructures for Advanced Applications Winter School 2021, two-week long Faculty Development Program on "Innovations in Science Teaching" organized by Sri Pratap College Srinagar in collaboration with the Cluster University Srinagar. February 11, 2021
84.	Multifunctional Nanomaterials for Smarter Applications International Interdisciplinary Virtual Conference on "Drug, Disease and Development" organized by Department of Chemistry, Mungasaji Maharaj Mahavidyalaya, Darwha. December 9, 2020.
83.	An Overview of Nano-Chemistry International Webinar on Material Science and Technology organized by Conference Mind, Frankfurt, Germany. December 01, 2020.
82.	Advanced Nanomaterials for Smart Future and Applications International Webinar on Material Science and Technology organized by Conference Mind, Frankfurt, Germany. December 01, 2020.
81.	Nanomaterials: An Overview & Chemistry

	Online Refresher Course in Chemistry for University and College Teachers organized by
	Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC,
	University of Delhi.
	October 31, 2020.
90	
80.	Advanced Nanomaterials for Multifunctional Properties and Applications
	Webinar on Nanotechnology (Nano-2020) organized by Endeavor Research Private
	Limited, San Jose, California, USA.
	October 22, 2020.
<b>79.</b>	Chemistry of Advanced Nanostructures: A Concept of Nanotechnology
	Online Refresher Course, UGC-Human Resource Development Centre (Academic Staff
	College), Jamia Millia Islamia, New Delhi.
	September 12, 2020.
<b>78.</b>	Advanced Inorganic Nanostructures for Futuristic Applications
	Webinar on "The future of Nano structures" organized by Department of Chemistry,
	Government Degree College for Women Anantnag, Kashmir.
	August 27, 2020.
77.	Advanced Nanomaterials and COVID-19 Prospects
	International online workshop on "Combating CoVID-19: It's time to Respond with
	Resilience, jointly organized by Department of Chemistry and Department of Information
	Technology, National Institute of Technology Raipur.
	July 1, 2020
76.	Recent Advances in Nano Chemistry
	One Day National Webinar on "Recent Research Trends in Chemistry" organized by
	Department of Chemistry, Nevjabai Hitkarini College, Bramhapuri, Nagpur.
	June 13, 2020
75.	Search for Advanced Nanomaterials and Polymeric Composite based Nano-Coatings for
	PPE Utensils: Is it a Need for COVID-19 Treatment
	Indraprastha Webinar Series on "Role of Science, Technology and Innovation in the
	Current Scenario" organized by University School of Basic and Applied Sciences, GGSIP
	University New Delhi.
	May 26-29, 2020
74.	Basics and Applications of X-Ray Diffractometer
'	FDP/Short term program organized by Central Instrumentation Facility, JMI.
	February 10, 2020
72	· · · · · · · · · · · · · · · · · · ·
73.	Synthesis, Characterization and Applications of some Nano-sized Advanced Functional
	Oxides
	International Conference on Advanced Functional Materials (AFM-2020) organized by
	Kamla Nehru Mahavidyalaya, Nagpur with Association of Chemistry Teachers.
	January 24, 2020
72.	Nanotechnology for Smart Future

	DCT Inching Lacture C.D. Cooply University Congoon			
	DST Inspire Lecture, G D Goenka University, Gurgaon.			
71	January 09, 2020  Advanced Europianal Oxide Nanoportiales for Hydrogen Congretion			
71.	J			
	11 <sup>th</sup> National Conference on Solid State Chemistry And Allied Areas (NCSCA-201			
	organized by S. K. Porwal College of Arts, Science & Commerce, Kamptee, Nagpur in association with Indian Association of Solid State Chemists & Allied Scientists (ISCAS)			
	association with Indian Association of Solid State Chemists &Allied Scientists (ISCAS), Jammu.			
	Jammu. December 21, 2019.			
	December 21, 2019.			
70.				
	UGC - Human Resource Development Centre, Jamia Millia Islamia, New Delhi.			
	December 09, 2019.			
69.	Advanced Functional Oxide Nanomaterials for Multifunctional Properties and Possibility			
	of Hydrogen Generation			
	National Conference on "Trends and Innovation in Chemistry" (NCTIC-19) organized by			
	Ravindranath Tagore Group of Colleges, Kapasan, Rajasthan.			
	December 06, 2019.			
68.	Nano: A Basic Interdisciplinary Science			
	DST Inspire Lecture, Krishna Engineering College, Ghaziabad.			
	November 28, 2019.			
<b>67.</b>	Functional Oxide Nanoparticles for Hydrogen Generation			
	International Conference on Chemical Constellation Cheminar (CCC-2019) organized by			
	Department of Chemistry, NIT Jalandhar.			
	October 12, 2019.			
66.	Nanomaterials for Multifunctional Properties and Applications			
	International Conference on Nanotechnology for Better Living, ICNBL 2019 organized			
	by NIT Srinagar in collaboration with IIT Kharagpur.			
	April 09, 2019.			
<b>65.</b>	Chemical Synthesis and Photocatalytic Applications of Metal/Mixed-Metal Oxide			
	Nanoparticles			
	National Conference on "Emerging Trends in Chemical Sciences-2019" organized by			
	Department of Chemistry, Faculty of Science, AMU, Aligarh.			
	February 23, 2019.			
64.	Nanochemistry: A Brief Overview			
	Invited guest lecture organized by Department of Chemistry, Islamic University of			
	Science and Technology, Awantipora, Kashmir.			
	February 21, 2019.			
63.	Chemistry of Few Advanced Nano-Materials			
	One week Faculty Development Program on Emerging Trends in Physical, Chemical and			
	Mathematical Sciences organized by Islamic University of Science and Technology,			
	Awantipora, Kashmir.			

	February 20, 2019.			
62.	An Interdisciplinary Approach of Science: Nanotechnology			
	One week Faculty Development Program on Emerging Trends in Physical, Chemical and			
	Mathematical Sciences organized by Islamic University of Science and Technology,			
	Awantipora, Kashmir.			
	February 19, 2019.			
61.	Chemical Synthesis and Applications of Few Selected Functional Oxide Nanomaterials 2 <sup>nd</sup> International Conference on Chemistry, Industry and Environment (ICCIE-2019) organized by Department of Applied Chemistry, AMU, Aligarh. February 18, 2019.			
60.	Synthesis and Properties of Few Multifunctional Nano-sized Materials			
00.	International Conference on Multifunctional Advanced Materials (ICMAM-2018) organized by Chemistry Department, Kamla Nehru Mahavidyalaya, Nagpur. October 06, 2018.			
59.	Chemistry at Nanoscale			
	DST Inspire Lecture, Aishwarya College of Education Sansthan (ACES), Udaipur. September 29, 2018.			
58.	Chemistry of Functional Materials at Nanoscale			
	National Conference on "Emerging Trends and Advances in Chemical Sciences" organized by the Chemistry Department, St. Stephen's College, University of Delhi. September 26, 2018.			
57.	Inorganic Nanostructures for Multifunctional Properties and Applications			
	A two day Seminar on Nanotechnology: Opportunities and Challenges organized by Krishna Engineering College, Ghaziabad. July 07, 2018.			
56.	Scenario of Nanotechnology			
20.	DST Inspire Lecture, Krishna Engineering College, Ghaziabad.			
	March 28, 2018.			
55.	Bifunctional Inorganic Nanostructures: Design and Applications			
	International conference on Nanobiotechnology 2018 organized by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi. February 06, 2018.			
54.	Multifunctional Nanomaterials: Synthesis, Properties and Applications			
	International Conference on Advances in Functional Materials, University of California,			
	Los Angeles, USA.			
	August 14-17, 2017.			
53.	Multifunctional Applications of some Inorganic Nanomaterials			
	10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017)			
	Organized by Delhi Technological University.			
	July 02, 2017.			

52.	ABO <sub>3</sub> type Nanomaterials for Multifunctional Properties and Applications			
32.	National Conference on Role of Biological Sciences in Sustainable Development &			
	Biodiversity Conservation organized by Department of Biosciences & Biotechnology,			
	Arni University, Kangra (H.P.)			
	March 10, 2017.			
51.	·			
51.	Nanotechnology: Science at Nanoscale  DST Inspire Leature, G.D. Goorke University, Gurgeon			
	DST Inspire Lecture, G D Goenka University, Gurgaon. January 11, 2017.			
50	·			
50.	Nano: An Interdisciplinary Science			
	DST Inspire Lecture, S.G.G.S. Khalsa College, Mahilpur, Hoshiarpur.  November 19, 2016.			
40				
49.	Multifunctional Nanostructures: Chemistry and Applications.			
	National Conference on Industrial Materials (NCIM 2016), organized by Sharda			
	University, Greater Noida.  October 22, 2016.			
40	· · · · · · · · · · · · · · · · · · ·			
48.	A Chemical Approach to Multifunctional Multiferroic Nanomaterials.			
	International Conference on Advanced Materials for Energy, Environment and Health,			
	organized by Department of Chemistry, IIT Roorkee, Roorkee.			
	March 06, 2016.			
47.	A Chemical Approach for Nanotechnology.			
	International Conference on "Mathematics for Brain Studies" organized by Noida			
	International University, Noida. February 02, 2016.			
4.0	•			
46.	YMO <sub>3</sub> based Multiferroic Nanostructures using Polymeric Citrate Precursor Method.			
	"6 <sup>th</sup> MRS Trilateral Symposium on Advances in Nanomaterials: Energy, Water &			
	Healthcare" organized by Institute of Nano Science and Technology, Mohali.			
4-	November 24, 2015.			
45.	Fabrication and Structural Properties of Nanocrystalline Multiferroic Oxides of YMO <sub>3</sub> .			
	"9th National Conference on Solid State Chemistry and Allied Areas" organized by			
	Bhaskaracharya College of Applied Sciences, University of Delhi, Delhi.			
44	May 9, 2015.			
44.	Enhanced Multiferroic Properties of Nanocrystalline Ternary Oxides prepared by Low			
	Temperature Methods.			
	International Conference on Futuristic Materials and Emerging Trends in Forensic and			
	Life Sciences, Nagpur University and Institute of Forensic Science Nagpur.			
12	February 7, 2015.  Pole of Nanoshamietry in Nanotechnology			
43.	Role of Nanochemistry in Nanotechnology.			
	Academic Staff College, Jamia Millia Islamia, New Delhi. October 21, 2014.			
12	· · · · · · · · · · · · · · · · · · ·			
42.	Nanochemistry: Science at Small Scale.			

	DOLL I I KUILL M I			
	DST Inspire Lecture, KSJIET, Modinagar.			
44	September 22, 2014.			
41.	Nanomaterials of Dielectric and Multiferroic Oxides by Metal Organic Precursor Route.			
	National Conference on Multifunctional Materials, Sharda University, Greater Noida. August 9, 2014.			
	<u> </u>			
40.	Concepts and Fundamentals of Nanoscience.			
	Jamia Millia Islamia, New Delhi. May 21, 2014			
	May 21, 2014.			
39.	Nanoscience-II			
	DST Inspire Lecture, RKG Group of Institutions, Ghaziabad.			
	January 22, 2014.			
38.	Nanoscience-I			
	DST Inspire Lecture, RKG Group of Institutions, Ghaziabad.			
	January 22, 2014.			
37.	Fundamentals of Nanotechnology.			
	DST Inspire Lecture, Institute of Applied Medicine and Research, Duhai, Ghaziabad.			
	January 08, 2014.			
36.	Chemical Methods for Metals and Doped Nanomaterials.			
	International Conference on Interdisciplinary areas with Chemical Sciences (ICIACS			
	2013), Panjab University in association with INST, Mohali.			
	October 30, 2013.			
35.	Polymeric Precursor Route to Nanomaterials.			
	National Workshop on Advances in Polymeric Materials, Department of Applied			
	Chemistry, Aligarh Muslim University, Aligarh.			
	September 22, 2013.			
34.	Designing of Simple to Complex Nanomaterials.			
	International Conference on Multifunctional Materials, Energy and Environment, Sharda			
	University, Greater Noida.			
	August 23, 2013.			
33.	Science at Nano-scale.			
	DST Inspire Lecture, RKG Group of Institutions, Ghaziabad.			
	July 08, 2013.			
32.	Nanotechnology-IV			
	Refresher Course in Basic & Applied Science, UGC-Academic Staff College, University			
	of Kashmir, Srinagar, Kashmir.			
	May 22, 2013.			
31.	Nanotechnology-III			
	Refresher Course in Basic & Applied Science, UGC-Academic Staff College, University			
	of Kashmir, Srinagar, Kashmir.			
	May 22, 2013.			

30.	Nanotechnology-II			
	Refresher Course in Basic & Applied Science, UGC-Academic Staff College, University			
	of Kashmir, Srinagar, Kashmir.			
	May 21, 2013.			
29.	Nanotechnology-I			
	Refresher Course in Basic & Applied Science, UGC-Academic Staff College, University			
	of Kashmir, Srinagar, Kashmir.			
	May 21, 2013.			
28.	Chemistry of Nano-Coordination Complexes.			
	DST Inspire Lecture, Dewan V.S. Institute of Engineering & Technology, Meerut.			
	April 27, 2013.			
27.	Nanostructured Dilute Magnetic Semiconductors: Structural Characterization and			
	Properties.			
	"8 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas", Dr. H. S. Gour			
	Central University, Sagar, M.P.			
	February 16, 2013.			
26.	Transition Metal doped Indium and Cadmium Oxide based Dilute Magnetic			
	Semiconductor Nanoparticles.			
	National Seminar on "Functional and Smart Materials", Sharda University, G. Noida.			
	January 11, 2013.			
25.	Chemistry in Nanotechnology.			
	National seminar on "Chemistry in Technology", Ravenshaw University, Cuttack.			
	December 08, 2012.			
24.	Chemistry of Dilute Magnetic Semiconductor Nanoparticles.			
	Department of Chemistry, University of Delhi, New Delhi.			
	October 17, 2012.			
23.	Nanostructured Metals and Dilute Magnetic Semiconductors: Synthesis, Characterization			
	and Properties.			
	Recent Trends in Nanoscience and Nanotechnology, University of Delhi, New Delhi.			
	October 15, 2012.			
22.	Nanomaterials: Small Dimension & Big Applications.			
	Department of Chemistry, Kashmir University, Kashmir.			
	June 16, 2012.			
21.	Characterization of Nanomaterials.			
	National Workshop on Nanoscience and Materials Characterization, Indian Association			
	of Solid State Chemists and Allied Scientists (ISCAS), Jammu.			
20	June 11, 2012.			
20.	Synthesis of Nanomaterials.			
	National Workshop on Nanoscience and Materials Characterization, Indian Association			
	of Solid State Chemists and Allied Scientists (ISCAS), Jammu.			

	June 10, 2012.			
19.	Solid State Chemistry & Applications.			
19.	• • • • • • • • • • • • • • • • • • • •			
	DST Inspire Lecture, AERP Institute of Technology & Management, Hodal, Haryana. March 27, 2012.			
10	·			
18.	Nanoscience & Nanotechnology: An Overview.  DST Inspire Lecture AEPP Institute of Technology & Management, Hodel, Hervone			
	DST Inspire Lecture, AERP Institute of Technology & Management, Hodal, Haryana. March 27, 2012.			
15	· · · · · · · · · · · · · · · · · · ·			
17.	Nano: How Small and How Big.			
	Department of Applied Chemistry, AMU Aligarh.  March 15, 2012.			
1.0	March 15, 2012.			
16.	Chemical Processing of Nano-Materials.			
	Department of Chemistry, Michigan State University, East Lansing, USA.  June 22, 2011			
	June 22, 2011.			
15.	Chemistry of Nano-Structured Materials.			
	Centre for Interdisciplinary Research in Basic Sciences (CIRBS), Jamia Millia Islamia.			
	April 01, 2011.			
14.	Scale and Controlled Synthesis of Nano-Structured Materials.			
	First National Conference on "Recent Advances in Polymer Nanocomposites", Zakir			
	Hussain College, Delhi University.			
	January 15, 2011.			
13.	Chemical Synthesis of Gold and Silver Nanoparticles.			
	Fourth Saudi Science Conference, Al-Madinah Al-Munawwarah, Saudi Arabia.  March 23, 2010.			
	March 23, 2010.			
12.	Chemical Route to Nanotechnology.			
	Symposium-cum-Workshop on Nanotechnology, Nanotechnology Research Centre			
	DAVIET, Jalandhar.			
	February 27, 2010.			
11.	Some Results of Silver and Gold Nanoparticles.			
	Nanotechnology: A Futuristic Application in all Disciplines of Science, St. Aloysius			
	College Jabalpur.			
10	December 13, 2009.			
10.	NANO: An Evolution of Science.			
	Nanotechnology: A Futuristic Application in all Disciplines of Science, St. Aloysius			
	College Jabalpur.			
0	December 13, 2009.			
9.	Chemical Synthesis of Silver Nanoparticles.			
	6 <sup>th</sup> National Symposium and Conference of the Indian Association of Solid State			
	Chemists and Allied Scientists, VIT University, Vellore.			
0	November 21, 2009.			
8.	Nano-Materials: An Art of Synthesis.			

	59 <sup>th</sup> Meeting of Nabel Laureates and Students at Lindau, Germany during India Evening.			
	June 29, 2009.			
7.	Synthesis Aspects of Nanostructured Materials.			
	Department of Chemistry & Bio-Chemistry, Rowan University, New Jersey, USA.			
	May 11, 2009.			
6.	Chemical Synthesis of Nanomaterials.			
	Centre of Research Excellence in Nanotechnology and Department of Chemistry, Kin			
	Fahad University of Petroleum and Minerals (KFUPM), Dehran, Saudi Arabia.			
	April 14, 2009.			
5.	Fabrication of Nanorods and Nanoparticles: Application of Reverse Micelles.			
	"The International Conference For Nanotechnology Industries: The Leading Technology			
	of 21 <sup>st</sup> Century", Kind Saud University, Riyadh, Saudi Arabia.			
	April 06, 2009.			
4.	Reverse Micelles: A Versatile Method for the Synthesis of Nanorods and Nanopartic			
	National Conference on Advanced Materials (NCAM-2008), Udai Pratap Autonomous			
	College, Varanasi.			
	March 08, 2008.			
3.	Nanorods of Transition Metal Oxalates: A Versatile Route to the Oxide Nanoparticles.			
	5 <sup>th</sup> National Symposium and Conference of the Indian Association of Solid State			
	Chemists and Allied Scientists, Nagpur University, Nagpur.			
	November 29, 2007.			
2.	Microemulsion Synthesis of Complex Oxide Nanoparticles and their Properties.			
	Second International Conference on Emerging Adaptive Systems and Technologies,			
	Noorul Islam College of Engineering (NICE), Kumaracoil, Tamilnadu.			
	October 27, 2007.			
1.	Nanorods and Nanoparticles Obtained by the Reverse Micellar Route: Dielectric and			
	Magnetic Properties.			
	MRSI, 18 <sup>th</sup> Annual General Meeting, NPL Delhi.			
	February 14, 2007.			

## **International Visits:**

10.	2024	Saudi Arabia (Personal visit to Mecca, Madinah & KSU Riyadh)
9.	2017	USA (University of California, Los Angeles for Invited Lecture in
		International conference)
8.	2011	USA (Boston for Conference & MSU East Lansing for Invited Lecture and
		Interaction).
7.	2010	Saudi Arabia (Al-Madinah Al-Munawwarah for conference)
6.	2009	Germany for Noble Laureate Meeting
5.	2009	Austria

4.	2009	USA (Texas for Conference & New Jersey for Invited Lecture and Interaction)
3.	2009	Saudi Arabia (KSU Riyadh, KAU Jeddah & KFUPM Dammam)
2.	2004	Germany To visit Max Plank Institute of Materials Science, Stuttgart
1.	2004	Belgium (Brussel, Antwerpen for conference)

### **Conference Organized: 20**

- 1. Convener, Virtual Seminar on Intellectual Property Rights organized by Central Instrumentation Facility (CIF), Jamia Millia Islamia on the occasion of National Science Day and 75th Azadi ka Amrit Mahotsav on February 28, 2022.
- 2. Coordinator, Mini Awareness Workshop on Intellectual Property Rights organized by Nanochemistry Research Laboratory, Department of Chemistry, JMI in association with the Office of Patents and Designs, Ministry of Commerce & Industry-DPIIT under Azadi Ka Amrit Mahotsav and NIPAM Mission of Govt. of India on January 15, 2022.
- 3. Chairman, International Hybrid Meeting on "Physics and Chemistry of Advanced Materials (PCAM-2021)" organized at IIT Delhi and Kasauli using Industry Sponsorship during October 24-27, 2021.
- 4. Convener & Coordinator, Indo-US Webinar (2 Days, June 1,2) and Lecture Series (7 Days, June 3-9) under the aegis of SPARC Scheme, Ministry of Education, Govt. of India during June 1-9, 2021.
- 5. Course Coordinator, FDP/Short term program training for equipments of Basic Sciences organized by Central Instrumentation Facility, JMI during February 03-14, 2020.
- 6. Convener, National Conference on Advanced Functional Materials-2019 (NCAFM-2019), Jamia Millia Islamia, New Delhi, November 20-21, 2019.
- 7. Co-Convener, 9<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2017" under UGC DRS Phase-II (SAP), Jamia Millia Islamia, New Delhi, March 28, 2017.
- 8. Coordinator, MHRD, Govt. of India sponsored one week GIAN Course on "Recent Developments in Nano Materials for Energy and Health Care Applications" from December 19-24, 2016.
- 9. Convener, 8<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2016" under UGC DRS Phase-II (SAP), Jamia Millia Islamia, New Delhi, April 26, 2016.
- 10. Co-Convener, 7<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2015" under UGC DRS Phase-II (SAP), Jamia Millia Islamia, New Delhi, March 26, 2015.
- 11. Convener, "Public Lecture by Bharat Ratna Prof. C.N.R. Rao", Jamia Millia Islamia, New Delhi, March 25, 2015.
- 12. Convener, 6<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2014" under UGC DRS Phase-II (SAP), Jamia Millia Islamia, New Delhi, March 24, 2014.
- 13. Coordinator, "Science Academics' Lecture Workshop on Nanoscience and Nanotechnology" sponsored by Science Academies of India, Jamia Millia Islamia, March 1-2, 2013.

- 14. Co-Convener, 5<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2012" under UGC-DRS Phase-I (SAP), Jamia Millia Islamia, New Delhi, March 12, 2012.
- 15. Convener, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS -2011), Jamia Millia Islamia in association with the Indian Association of Solid State Chemists and Allied Scientists, November 24-26, 2011.
- 16. Co-Convener, 4<sup>th</sup> one day seminar on "Recent Advances in Chemistry 2011" under UGC-DRS Phase-I (SAP), Jamia Millia Islamia, New Delhi, March 22, 2011.
- 17. Co-Convener, 3<sup>rd</sup> one day seminar on "Recent Advances in Chemistry 2010" under UGC-DRS Phase-I (SAP), Jamia Millia Islamia, New Delhi, March 10, 2010.
- 18. Co-Convener, 2<sup>nd</sup> one day seminar on "Recent Advances in Chemistry 2009" under UGC-DRS-I (SAP), Jamia Millia Islamia, New Delhi, January 19, 2009.
- 19. Co-Convener, 1<sup>st</sup> one day seminar on "Recent Advances in Chemistry 2008" under UGC-DRS-I (SAP), Jamia Millia Islamia, New Delhi, March 28, 2008.
- 20. Co-Convener, Natural Science Info Fest (NSIF), Jamia Millia Islamia, New Delhi, March 04-06, 2008.

### **Training/Orientation / Refresher Programmes:**

- First Online Faculty Development Program for JMI Faculty Members organized by FTK-Centre for Information Technology, Zakir Husain Library & UGC, HRD Centre, JMI, April 6-7, 2020.
- 2. First Batch 1-week Inspired Teachers In-Residence Programme at Rashtrapati Bhavan, June 06-12, 2015.
- 3. 2<sup>nd</sup> 3-week Refresher Course in Chemistry, UGC-ASC, Jamia Millia Islamia, New Delhi, November 18 to December 07, 2013.
- 4. 92<sup>th</sup> four-week Orientation Programme, UGC-ASC, Jamia Millia Islamia, New Delhi, April 13 to May 10, 2010.
- 5. First three-week Refresher Course in Chemistry, UGC-ASC, Jamia Millia Islamia, New Delhi, August 28 to September 17, 2009.
- 6. 2<sup>nd</sup> 2-week DST Advanced School on Nanoscience and Nanotechnology, S. N. Bose National Centre for Basic Sciences, Kolkata, Feb 7-21, 2005.

### Membership of National and International Professional Bodies:

- 1. Elected Member, National Academy of Sciences India (NASI) since 2019.
- 2. Life Member, Indian Association of Solid State Chemists and Allied Scientists (ISCAS), India (Membership No. 436).
- 3. Life Member, Society of Materials Chemistry (SMC), BARC Mumbai, India (Membership No. LM-217).
- 4. Life Member, Chemical Research Society of India (CRSI) Bangalore (Membership No. LM 2726).

- 5. Life Member, Materials Research Society of India (MRSI) Bangalore (Membership No. LMB-3211).
- 6. Life Member, Association of Chemistry Teachers, TIFR Mumbai, India (Membership No. 2298).
- 7. Member, Royal Society of Chemistry, UK (Membership No. 749047)
- 8. Member, American Chemical Society (2019-20) (Member Number: 31027319).
- 9. Member, The American Association for the Advancement of Science (AAAS), USA since 2009.
- 10. Member, American Nano Society, USA Since 2011 more info please click at: (http://members.nanosociety.us/tokeer)
- 11. Elected Member, Executive Committee, Society of Materials Chemistry (SMC), BARC Mumbai, India (2022-2025)
- 12. Joint Secretary, Indian Association of Solid State Chemists and Allied Scientists (ISCAS), (First term: 2016-19, Second term: 2022-25)
- 13. Elected Member, Executive Committee, Indian Association of Solid State Chemists and Allied Scientists (ISCAS), (2013-16).
- 14. Member, Discussion Forum Committee, Society of Materials Chemistry (SMC), BARC.
- 15. Member, National organizing committee, NSNT 2011; National Review & Coordination Meeting of Nanomission Council, February 25-27, 2011.
- 16. Member, National organizing committee, National Workshop on Nanoscience and Materials Characterization organized by Indian Association of Solid State Chemists and Allied Scientists (ISCAS), June 09-15, 2012.
- 17. Member, National organizing committee, National Symposium on Frontier Areas in Solid State and Materials Science organized by Indian Association of Solid State Chemists and Allied Scientists (ISCAS), October 16-18, 2013.
- 18. Member, Organizing Committee, International Conference on Nano Science and Technology (ICONSAT-2014) organized by Institute of Nano Science and Technology, Mohali under Nano Mission Programme, DST, Govt. of India, March 03-05, 2014.
- 19. Member, Organizing Committee, IITD-Indo-US Conclave organized by IIT Delhi during November 28-30, 2022.
- 20. Member, Organizing Committee, I-CONECT 2023 organized by IIT Delhi during March 20-22, 2023

### **Professional Activity:**

- 1. Special Committee Member, School of Physical Sciences, JNU Delhi (2024-27).
- 2. External Member of Board of Studies at Department of Chemistry, Mizoram University, Aizawal (2024-27).
- 3. External Expert Member, Board of Studies (BoS) at Department of Chemistry, Central University of Kashmir, Ganderbal (2023-26).

- 4. Expert in the Selection Committee for the post of Assistant Professor (Industrial Chemistry) at Jammu & Kashmir Public Service Commission.
- 5. Served as External expert in the Selection Committees for holding selection of JFR, RA and Senior Project Scientist at IIT Delhi.
- 6. Served as External expert in the Selection Committees for holding selection of CSIR SRF at University of Delhi.
- 7. Served as Member Expert Subject in the interview board for the selection of candidates to the post of PGT (Chemistry) in the Kendriya Vidyalaya Sangathan.
- 8. Served as External expert in the Selection Committee for the selection of candidates to the post of PGT (Chemistry) and Lab assistant (Chemistry) in DPS Mathura Road.
- 9. Served as Subject expert in the Selection Committee for the selection of candidates to the post of PGT (Chemistry) at Jamia Millia Islamia.
- 10. Served as Subject expert in the Screening Committee for the post of TGT (Chemistry) at Jamia Millia Islamia.
- 11. Served as Subject expert in the Selection Committee for the selection of candidates to the post of PGT (Chemistry) at Hamdard Education Society.
- 12. Served as Subject expert in the Selection Committee for the selection of candidates to the post of Professor and Associate Professor (Chemistry) at UPES Dehradun.
- 13. Served as Subject expert in the Selection Committee for the selection of candidates to the post of Assistant Professor (Chemistry) at KIET Ghaziabad.
- 14. Expert interview/discussion on "Burning stones in Yamuna River near Saharanpur" telecast by India TV at 8:30 PM on April 25, 2009.
- 15. Panel expert for Mission Engineering symposium at Satya Sai Auditorium, Lodhi Road, New Delhi organized by Hindustan Times on November 29, 2017.
- 16. Served as external examiner for under graduate courses (theory and practical) in M.P.J. Rohilkhand University, Bareilly.
- 17. Served as external examiner for B.Tech. practical examination at Department of Applied Chemistry, AMU Aligarh.
- 18. Served as external examiner for M.Tech. (Nanoscience and Nanotechnology) practical examination at Department of Physics, Sharda University, Greater Noida.
- 19. Served as external expert for Post-audit answer scripts, moderation of question papers of End Semester examination (theory), paper setting (theory), B.Tech. practical examination in Galgotias University, Greater Noida, UP.
- 20. Served as subject panel expert (Judge) for the evaluation of posters presented in International Conference on Interdisciplinary areas with Chemical Sciences (ICIACS 2013) organized by Panjab University in association with Institute of Nano Science and Technology, Mohali.
- 21. Member, Project evaluation committee of IITD-NCTU Taiwan at IIT Delhi, March 2020.
- 22. Served as Subject expert in the Selection Committees for holding promotion and selection of various posts at NPL Delhi.

- 23. Served as expert in the Selection Committee for the selection of contractual and guest faculty in DD Kaushal Kendriya at Jamia Millia Islamia.
- 24. External Expert, Project evaluation committee of IP University, July 2021, June 2022.
- 25. Subject expert in the Selection Committee for the selection of contractual and guest faculty in D/o Applied Sciences, F/o Engineering at Jamia Millia Islamia.

## **Administrative and University Responsibilities:**

- 1. VC's Nominee, Local Screening-cum-Selection Committee for the post of PGT Chemistry, JMI (2024).
- 2. VC's Nominee, Local Selection Committee for the appointment of Project Technical Support-III under ICMT sponsored research project at MCARS, JMI (2024).
- 3. Centre Observer, RCA Entrance Test, Kandivali, Mumbai (JMI, 2024).
- 4. VC's Nominee, CRC for Centre for Nanoscience and Nanotechnology, JMI (2023-26).
- 5. Member, CoS, Multidisciplinary Centre for Advanced Research and Studies (MCARS) JMI (2023-26).
- 6. VC's Nominee, Admission Committee 2023-24, D/o Educational Studies, F/o Education.
- 7. VC's Nominee, Interview Board of D.El.Ed., B.Ed. Spl. Edu., M.A.(Edu.) & M.Ed. Spl. Edu. (2023-24) D/o Teacher Training &Non Formal Education (IASE), F/o Education.
- 8. Member, Academic and Administrative Audit Team, JMI (2023).
- 9. VC's Nominee for Centre Academic Integrity Panel (CAIP) of AJK Mass Communication Research Centre, 2021-24.
- 10. Deputy Professor In-Charge, Central Instrumentation Facility, JMI (26.7.2021-09.11.2023).
- 11. Nodal Officer, Jamia Millia Islamia, since July 2021.
- 12. Deputy Chairman, Coordination Committee for NAAC Team Visit, Dec 2021.
- 13. Subject Expert for Screening cum Evaluation Committee for Promotion of Assistant Professors at Centre for Nanoscience and Nanotechnology (July 2021).
- 14. Centre Observer, JVSD Girls Senior Secondary School, Karol Bagh (JMI, 2021).
- 15. Centre Observer, Jagrity Public School, Sangam Vihar (JMI, 2021).
- 16. VC's Nominee in the Selection Committee for SRF under DST funded project at Department of Biotechnology, JMI (September 2021).
- 17. VC's Nominee, Result Moderation Committee, F/o Natural Sciences, JMI since July 2020.
- 18. Member, Screening Committee, Upper Division Clerk 2019-20.
- 19. Member, Screening Committee, Multi Tasking Staff 2019-20.
- 20. Member, Technical sub-purchase committee, D/o Chemistry, 2018-2021.
- 21. Observer, KV IIT Gwahati Centre, Jamia Millia Islamia, 2018.
- 22. Member, Central Purchase Committee, JMI, 2018-19.
- 23. Member, Evaluation Committee, Swachh Bharat Internship Program, 2018.
- 24. Member, SAIF proposal committee, JMI, 2018.
- 25. Member, APC Committee, Jamia Millia Islamia, since 2017---
- 26. Coordinator, Swachh Bharat Mission, Jamia Millia Islamia, (2017-18).

- 27. Member & Convener, DRC, Department of Chemistry, JMI, 2017-20.
- 28. Member, Project Implementation Group (PIG), DST-PURSE, JMI, Since 2016-
- 29. Member, Central Sub-purchase committee (Computers & Peripherals) 2015-17.
- 30. Member, Academic Council, Jamia Millia Islamia, since 2015-18.
- 31. Assistant Superintendent, Diploma Entrance Examination, 2014.
- 32. Assistant Superintendent, MBA Entrance Examination, 2014.
- 33. Assistant Superintendent, XI<sup>th</sup> Class Entrance Examination, 2014.
- 34. Assistant Superintendent, BA/B.Sc. Entrance Examination, 2014.
- 35. Member, Technical committee (X-ray Diffractometer), 2014.
- 36. Coordinator, Intra-Departmental Cricket Matches, 2014.
- 37. Member, TWT, Central Instrumentation Facility (CIF), JMI, since 2013---.
- 38. Tabulator, PG Courses, F/o Natural Sciences (2013-14).
- 39. Identification Officer, Faculty Entrance Examination, 2012.
- 40. Tabulator, 12th (Private Board Examination), JMI, 2012.
- 41. Member, Sub-purchase committee, D/o Chemistry, 2012-13.
- 42. Team Manager of Football Team, Faculty of Natural Sciences, 2010-15.
- 43. Assistant Superintendent, B.Tech. Entrance Examination, 2010, 2013, 2014.
- 44. Identification Officer, B.Tech. Entrance Examination, 2009.

## **Honors:**

- 1. 'Guest of Honor' in "Nanotechnology: A Futuristic Application in all Disciplines of Science", St. Aloysius College Jabalpur, December 13, 2009.
- 2. Chair a session in "Nanotechnology: A Futuristic Application in all Disciplines of Science", St. Aloysius College Jabalpur, December 13, 2009.
- 3. Chair a session in the First National Conference on "Recent Advances in Polymer Nanocomposites", Zakir Hussain College, Delhi University, January 14, 2011.
- 4. Chair a session in "National Workshop on Nanoscience and Materials Characterization", Indian Association of Solid State Chemists and Allied Scientists (ISCAS), Jammu, June 11, 2012.
- 5. Served as 'Chief Guest' of the celebration of Chemistry Day (Scintia), DPS Mathura Road, New Delhi, Aug 03, 2012.
- 6. Chair a session in "National Conference on Emerging Trends in Electrical & Electronics Engineering (ETEEE-2015)", Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, February 2, 2015.
- 7. Chair a session in the International Conference "12<sup>th</sup> IEEE- INDICON 2015" at Department of Electrical Engineering, JMI, New Delhi on December 20, 2015.
- 8. Chair a scientific session in the National Conference "Biotechnology & Environment (NCOBE-2017)" organized by Department of Biotechnology, Jamia Millia Islamia, New Delhi on April 10, 2017.

- 9. Chair a technical session in the "International Conference on Advanced Materials (ICAM-2019)" organized by Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi on March 07, 2019.
- 10. Chair a technical session in the 11<sup>th</sup> National Conference on Solid State Chemistry And Allied Areas (NCSCA-2019) organized by S. K. Porwal College of Arts, Science & Commerce, Kamptee, Nagpur in association with Indian Association of Solid State Chemists & Allied Scientists (ISCAS), Jammu on December 21, 2019.
- 11. Chair technical session of Chemistry/Nanotechnology/Physics/Mathematics in JTA Multidisciplinary International Conference (JTACON-2020) organized by Jamia Teachers' Association, Jamia Millia Islamia on February 17, 2020.
- 12. Chief Guest in Two-Day National Workshop on "Modern Tools and Techniques in Chemical Sciences" organized by Department of Chemistry, Islamic University of Science and Technology (IUST), Awantipora, Kashmir on September 24, 2021.
- 13. Chair a session of International Conference on Nanomaterials for Electro-catalytic Technologies (I-CONECT 2023) organized by Department of Chemistry, IIT Delhi on March 21, 2023.
- 14. Chair three scientific sessions of International Hybrid Conference on Nano Structured Materials and Polymers (ICNP 2023) organized by Mahatma Gandhi University, Kottayam, Kerala on May 12, 2023.
- 15. Chair an oral session at International Conference on "Integrative Chemical Science for Health & Environment-2023" organized by Deshbandhu College, University of Delhi, on October 7, 2023.
- 16. Chair Technical Session-1 at International Conference on Materials for Energy & Sustainable Development (MESD 2023) organized by Jawaharlal Nehru University New Delhi, on October 27, 2023.
- 17. Served as 'Guest of Honor' in International Conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies (IEMDST-2024) organized by NIT Warangal, Telangana on July 4, 2024.
- 18. Chair Technical Session-3A (Online) at International Conference on Renewable Energy and Sustainable Technologies organized by Department of Applied Sciences & Humanities, Jamia Millia Islamia, New Delhi on July 5, 2024.

# Reviewer of the Journals/ Projects: 190

- 1. Chemical Society Reviews (RSC, IF = 40.4)
- 2. Nature Communications (Nature, IF = 12.121)
- 3. Nano Energy (Elsevier, IF = 15.548)
- 4. Small (Wiley-VCH, IF = 15.153)
- 5. Coordination Chemistry Reviews (Elsevier, IF = 20.6)
- 6. Chemical Engineering Journal (Elsevier, IF = 15.1)
- 7. Journal of Materials Chemistry A (RSC, IF = 11.9)

- 8. Scientific Reports (Nature Publishing Group)
- 9. ACS Energy Letters (ACS, IF = 22)
- 10. ACS Applied Materials & Interfaces (ACS, IF = 10.38)
- 11. ACS Applied Energy Materials (ACS, IF = 6.4)
- 12. ACS Applied Nano Materials (ACS, IF = 6.2)
- 13. ACS Applied Electronic Materials
- 14. ACS Applied Engineering Materials
- 15. Inorganic Chemistry
- 16. International Journal of Hydrogen Energy (Elsevier, IF = 7.2)
- 17. Journal of Materials Chemistry (Royal Society, UK)
- 18. The Journal of Physical Chemistry (ACS, USA)
- 19. Dalton Transactions (Royal Society, UK)
- 20. Langmuir (ACS, USA)
- 21. Journal of Energy Storage (Elsevier, IF = 9.4)
- 22. Journal of Colloid and Interface Science (Elsevier, IF = 9.9)
- 23. Nanoscale (RSC, IF = 5.8)
- 24. RSC Advances (Royal Society, UK)
- 25. Crystal Engineering Communication (Royal Society)
- 26. New Journal of Chemistry (Royal Society)
- 27. Physical Chemistry Chemical Physics (Royal Society)
- 28. Nanoscale Advances (Royal Society)
- 29. ACS Omega (ACS, USA)
- 30. ACS ES&T Water (IF = 5.3)
- 31. Journal of American Ceramic Society
- 32. Journal of Materials Research
- 33. Journal of Solid State Chemistry
- 34. Nanotechnology (IOP, IF=3.573)
- 35. The Chemical Record (WILEY-VCH, IF=6.163)
- 36. Applied Nanoscience (Springer)
- 37. Journal of Nanoparticle Research
- 38. Colloids and Surfaces B: Biointerface
- 39. Colloids and Surfaces A: Physicochemical and Engineering Aspects
- 40. Current Organic Chemistry
- 41. International Journal of Nanomedicine (Dove Medical Press)
- 42. Materials Research Bulletin (Elsevier Science, USA)
- 43. Journal of Alloys and Compounds (Elsevier Science, USA)
- 44. Science of Advanced Materials (American Scientific Publisher)
- 45. Solid State Sciences (Elsevier Science, USA)
- 46. Journal of Physics and Chemistry of Solids (Elsevier Science, USA)
- 47. Journal of Cleaner Production (Elsevier)
- 48. Journal of Industrial and Engineering Chemistry (Elsevier)
- 49. Carbohydrate Polymers (Elsevier Science, USA)
- 50. Journal of Molecular Structure (Elsevier Science, USA)

- 51. Journal of Molecular Liquids
- 52. Material Chemistry and Physics (Elsevier Science, USA)
- 53. Materials & Design (Elsevier, IF 3.997)
- 54. Journal of Magnetism and Magnetic Materials
- 55. Materials Letters (Elsevier Science, USA)
- 56. Journal of Physics D: Applied Physics (IOP, USA)
- 57. Physica B: Physics of Condensed Matter
- 58. Physica E: Low-dimensional Systems and Nanostructures
- 59. Journal of Electroceramics
- 60. Ecotoxicology and Environmental Safety
- 61. Applied Surface Science (Elsevier Science, USA)
- 62. Journal of Materials Science (Springer)
- 63. Journal of Materials Science: Materials in Electronics (Springer)
- 64. Bulletin of Material Science (Springer)
- 65. Journal of Applied Chemistry
- 66. Journal of Nanotechnology
- 67. Journal of Nanostructure in Chemistry (Springer)
- 68. Materials Science in Semiconductor Processing (Elsevier, USA)
- 69. International Journal of Surface Science and Engineering (IJSURFSE)
- 70. Arabian Journal of Chemistry (KSU, Saudi Arabia)
- 71. Journal of Saudi Chemical Society (Elsevier Science, USA)
- 72. Zeitschrift fuer Naturforschung A
- 73. International Journal of Nanoscience & Nanotechnology, IJNN
- 74. Micro and Nanosystems (Bentham Science Publishers)
- 75. Current Catalysis (Bentham Science Publishers)
- 76. Superlattices and Microstructures (Elsevier)
- 77. Journal of Soft Matter (Hindawi Publishing Corporation)
- 78. Solid State Phenomenon, Trans Tech Publications, Switzerland
- 79. Journal of Nano Research
- 80. Advance Science Letters
- 81. International Journal of Industrial Chemistry
- 82. Nano-Structures & Nano-Objects
- 83. Materials Research Express, IOP USA
- 84. Materials Research Express 2
- 85. Journal of Nanoscience and Nanotechnology (JNN)
- 86. Journal of Photochemistry & Photobiology, A: Chemistry
- 87. Sensors & Actuators: B. Chemical
- 88. Polymer (Elsevier)
- 89. Journal of Physics: Photonics (IOP Science)
- 90. Rare Metals
- 91. Journal of Nanomaterials
- 92. ChemNanoMat (Wiley)
- 93. ChemPlusChem (Wiley)

- 94. ChemistrySelect (Wiley)
- 95. Solar Energy (Elsevier)
- 96. IEEE Sensors Journal
- 97. Ceramics International (Elsevier)
- 98. Journal of Materials Research and Technology
- 99. Alexandria Engineering Journal (IF: 3.696)
- 100. Heliyon (Elsevier)
- 101. Applied Organometallic Chemistry (Wiley)
- 102. SN Applied Sciences (Springer)
- 103. Vacuum (Elsevier)
- 104. Microbial Pathogenesis (Elsevier)
- 105. Letters in Applied Microbiology
- 106. Peer J
- 107. PeerJ Materials Science
- 108. IET Nanobiotechnology
- 109. Processing and Application of Ceramics
- 110. Optoelectronics and Advanced Materials Rapid Communications
- 111. Transactions on NanoBioscience
- 112. Journal of King Saud University Science (Elsevier)
- 113. Journal of The Institution of Engineers (India): Series C (IEIC)
- 114. Indian J Chem, Sec A
- 115. Materials Today: Proceedings (Elsevier)
- 116. Journal of Inorganic and Organometallic Polymers and Materials
- 117. Emergent Materials (EMMA)
- 118. Methods
- 119. Chemistry An Asian Journal (Wiley-VCH GmbH, IF=4.568)
- 120. ChemCatChem (Wiley-VCH)
- 121. Nano Futures (IOP, IF= 3.306)
- 122. Journal of Electronic Materials (Springer, IF= 1.938)
- 123. Journal of Porous Materials
- 124. Chemical Papers (Springer, IF= 2.097)
- 125. Nano Express (IOP Science)
- 126. Journal of Nuclear Materials
- 127. Solar Energy Materials & Solar Cells
- 128. Journal of Engineering and Applied Science
- 129. Physica Scripta (IOP Science, IF = 2.487)
- 130. Cerâmica (IF = 1.08)
- 131. Molecules (MDPI, IF = 4.927)
- 132. Energies (MDPI, IF= 3.004)
- 133. Materials (MDPI, IF= 3.748)
- 134. Crystals (MDPI)
- 135. Metals (MDPI, IF= 2.6)
- 136. Clean Technologies (MDPI)

- 137. Coatings (MDPI, IF= 3.236)
- 138. Reactions (MDPI)
- 139. ChemEngineering (MDPI)
- 140. Thin Solid Films
- 141. Journal of Rare Earths
- 142. Inorganic and Nano-Metal Chemistry (Taylor & Francis)
- 143. Chemistry of Inorganic Materials (Elsevier)
- 144. Applied Energy (Elsevier, IF = 11.2)
- 145. Chemosphere (Elsevier, IF = 8.8)
- 146. Materials Today Communications (Elsevier, IF = 3.662)
- 147. Catalysis Today (Elsevier, IF = 5.2)
- 148. Journal of Environmental Chemical Engineering (Elsevier, IF = 7.7)
- 149. International Journal of Biological Macromolecules (Elsevier, IF = 7.7)
- 150. Materials Chemistry and Physics
- 151. Journal of Power Sources (Elsevier, IF = 8.1)
- 152. Inorganic Chemistry Communications
- 153. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- 154. Chemical Physics Impact
- 155. Applied Physics A
- 156. Physica B: Condensed Matter
- 157. European Polymer Journal
- 158. Chemistry A European Journal
- 159. ECS Journal of Solid State Science and Technology (IOP)
- 160. Desalination and Water Treatment
- 161. Microchemical Journal (Elsevier, IF = 4.8)
- 162. RSC Applied Interfaces
- 163. Surfaces and Interfaces
- 164. Chinese Journal of Catalysis (Elsevier, IF = 15.7)
- 165. Separation and Purification Technology
- 166. Gas Science and Engineering
- 167. Next Nanotechnology
- 168. ACS Books
- 169. Review of Scientific Instruments (AIP, IF = 1.587)
- 170. Journal of the Indian Chemical Society (Elsevier, IF = 3.2)
- 171. AIP Advances
- 172. Energy Technology
- 173. Nexus (Cell Press)
- 174. Environmental Functional Materials
- 175. Green Energy and Environmental Technology
- 176. Environmental Quality Management (Wiley)
- 177. Advanced Engineering Materials (Wiley)
- 178. Advanced Energy and Sustainability Research (Wiley)
- 179. International Journal of Precision Engineering and Manufacturing-Green Technology

- 180. Advances in Nano Research, An International Journal
- 181. Asia-Pacific Journal of Science and Technology
- 182. Active and Passive Electronic Components, Hindawi
- 183. Global Challenges (Wiley)
- 184. Material Science & Engineering International Journal (MedCrave Group)
- 185. Ministry of Higher Education, King Abdul Aziz University, Saudi Arabia.
- 186. Scientific Research Centre, University of Technology & Applied Sciences, Oman.
- 187. Department of Science & Technology (DST), Delhi, Govt. of India.
- 188. R&D Proposals under CSIR-HRDG-EMR-II Scheme, New Delhi.
- 189. University Grant Commission (UGC), New Delhi.
- 190. BRNS, Department of Atomic Energy (DAE), Mumbai.

## **Publications:** Total Publications = 1 + 202 + 12 + 3 + 136 = 354Total Cumulative Impact Factor = 762.226

Patents = 1
Peer Reviewed Journals = 202
Chapters in Books = 12
Text Books = 2
Edited Books = 1
Conferences = 136

### **Citation indices (Source Google Scholar)**

Citations	8800
h-index	55
i10-index	171

#### Patents: 01

1. Ceria Nanocatalyst Supported p-Nitrobenzoic Acid Synthesis, Tokeer Ahmad and Farha Naaz (2022, Indian Patent Filed, Application No.: 202211012959)

# Research Papers in Peer Reviewed Cited Journals: 202

	2025:
202.	Physicochemical Modulations in MXenes for Carbon Dioxide Mitigation and Hydrogen
	Generation: Tandem Dialogue between Theoretical Anticipations and Experimental
	Evidences, Syed Asim Ali, Madeeha Khanam, Iqra Sadiq, Saman Shaheen and Tokeer
	<b>Ahmad</b> , Journal of Colloid and Interface Science, 679, 1046-1075, 2025. {IF = 9.965}
201.	Metal Chalcogenide Quantum Dots for Photochemical and Electrochemical Hydrogen
	Generation: Recent Advancements and Technological Challenges, Syed Asim Ali, Iqra
	Sadiq and <b>Tokeer Ahmad</b> , Nanotechnology, In Press, 2025. {IF = 2.9}
200.	Enhanced Photo/Electrocatalytic Efficiency of Zn-Decorated TiO <sub>2</sub> Nanostructures for

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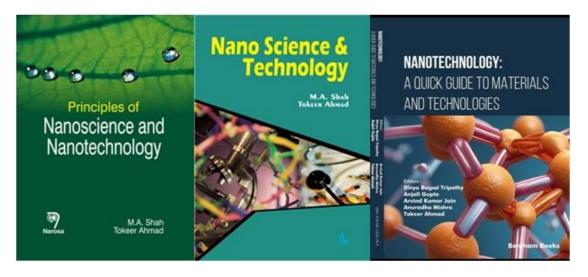
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95.	Microemulsion Synthesis, Structural Characterization and Dielectric Properties of Ba <sub>1</sub> -
	<sub>x</sub> Pb <sub>x</sub> ZrO <sub>3</sub> (0.05≤x≤0.20) Nanoparticles, Mohd Ubaidullah and <b>Tokeer Ahmad</b> , Tech
	Connect World Innovation conference and Expo, Washington DC, USA, May 14-17,
	2017.
94.	Photo-catalytic and Dielectric Properties of CuCrO <sub>2</sub> Nanoparticles, Ruby Phul and
	<b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017), Jamia Millia Islamia, New
	Delhi, March 28, 2017. <b>Oral Paper Award</b>
93.	Photo-catalytic Activity of Sodium Tantalate Nanostructures, Synthesized by Firing Gel
	Method, Umar Farooq and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017),
	Jamia Millia Islamia, New Delhi, March 28, 2017. Poster Award
92.	Synthesis and Characterization of Manganese doped Cadmium Sulphide Nanoparticles,
	Veenu and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017), Jamia Millia
	Islamia, New Delhi, March 28, 2017.
91.	Citric acid tempelated synthesis of silver nanoparticles and their catalytic properties,
	Ayesha and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017), Jamia Millia
	Islamia, New Delhi, March 28, 2017. <b>Best Poster Award</b>
90.	Catalytic degradation of Rose Bengal using amino acid capped silver nanoparticles,
	Sayed Khadija Bari and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017),
	Jamia Millia Islamia, New Delhi, March 28, 2017. Consolation Poster Award
89.	Ascorbic Acid Assisted Synthesis and Application of Copper Nanoparticles, Chanmeet
	Kaur and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2017), Jamia Millia
00	Islamia, New Delhi, March 28, 2017. Consolation Poster Award
88.	Role of Multifunctional Nanoparticles in Water Splitting, National Seminar on
	Biophysics (BIOPHYSIKA 2017), Centre for Interdisciplinary Research in Basic
07	Sciences, Jamia Millia Islamia, New Delhi, March 16, 2017.
87.	Synthesis and Characterization of Molecular Imprinted Nano-materials for the Removal
	of Heavy Metals from Ground Water: A Review, Irshad Ahmad, Waqar A. Siddiqui and
	<b>Tokeer Ahmad</b> , International Conference and Exhibition on Building Utilities, Jamia Millia Islamia, New Dalhi, December 1, 3, 2016
86.	Millia Islamia, New Delhi, December 1-3, 2016.  Antibacterial Efficacy of plant extract treated Iron Oxide Nanoparticles, Ruby Phul and
ου.	Tokeer Ahmad, Recent Advances in Chemistry (RAC-2016), Jamia Millia Islamia, New
	Torce Alliau, Neceli Advances in Chemistry (NAC-2010), Janua Willia Islamia, New

	Delhi, April 26, 2016. Best Oral Paper Award
85.	Synthesis, characterization and dielectric properties of TiO <sub>2</sub> -CeO <sub>2</sub> nanocomposites,
	Mohd Shahazad and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2016),
	Jamia Millia Islamia, New Delhi, April 26, 2016. <b>Poster Award</b>
84.	Catalytic degradation of Methylene Blue using Plant mediated Silver nanoparticles,
	Veenu, Ruby Phul and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2016),
	Jamia Millia Islamia, New Delhi, April 26, 2016. Consolation Poster Award
83.	Synthesis and Characterization of Sodium Niobate (NaNbO <sub>3</sub> ) Nanoparticles using
	Polymeric Citrate precursor Route, Umar Farooq and Dr. Tokeer Ahmad, Recent
	Advances in Chemistry (RAC-2016), Jamia Millia Islamia, New Delhi, April 26, 2016.
	Best Paper Award
82.	Antibacterial Activity of Ocimum tenuiflorum treated Iron Oxide Nanaparticles, Ruby
	Phul, Meryam Sardar and Tokeer Ahmad, International Conference on Nanoscience,
	Nanotechnology & Advanced Materials (NANOS-2015), GITAM UNIVERSITY
	Gandhinagar Campus, Rushikonda Visakhapatnam, A.P., December 14-17, 2015.
81.	Synthesis, Characterization and Comparison of the Peroxidase-Like Activity of
	Unmodified and Polymer-Modified Fe <sub>3</sub> O <sub>4</sub> Nanoparticles, Ruby Phul, Meryam Sardar and
	Tokeer Ahmad, National Conference on Interdisciplinary Approaches in Chemical
	Sciences-2015" Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia
	Islamia, New Delhi, December 16, 2015.
80.	Citrate Precursor Synthesis, Structural Characterization and Dielectric Properties of Ba <sub>1</sub> .
	$_{x}$ Ca $_{x}$ ZrO $_{3}$ ( $0 \le x \le 0.20$ ) Nanoparticles, Mohd Ubaidullah and <b>Tokeer Ahmad</b> , National
	Conference on Interdisciplinary Approaches in Chemical Sciences-2015" Centre for
	Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi,
	December 16, 2015.
<b>79.</b>	Synthesis, Characterization and Biological Activity of Bare and Coated Iron Oxide
	Nanoparticles, Ruby Phul, Meryam Sardar and <b>Tokeer Ahmad</b> , "2 <sup>nd</sup> AISRF Meeting on
	"Advanced Nanomaterials for Energy, Optoelectronics and Biological Applications"
	Institute of Nano Science and Technology, Mohali, November 25-27, 2015.
<b>78.</b>	Peroxidase-like Activity of Polymer Coated Iron Oxide Nanoparticles, Ruby Phul,
	Meryam Sardar and <b>Tokeer Ahmad</b> ,"9 <sup>th</sup> National Conference on Solid State Chemistry
	and Allied Areas" Bhaskaracharya College of Applied Sciences, University of Delhi,
	Delhi, May 8-10, 2015.
77.	Fabrication and Structural Properties of Nanocrystalline Multiferroic Oxides of YMO <sub>3</sub> ,
	<b>Tokeer Ahmad</b> , "9 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas"
	Bhaskaracharya College of Applied Sciences, University of Delhi, Delhi, May 9, 2015.
76.	Synthesis, Characterization and Properties of Iron Oxide Nanoiparticles, Ruby Phul,
	Meryam Sardar and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2015), Jamia
	Millia Islamia, New Delhi, March 26, 2015. <b>Best Paper Award</b>
75.	Multiferroic Properties of GdFeO <sub>3</sub> Nanoparticles prepared by Citrate Precursor Route,

	Irfan H. Lone and <b>Tokeer Ahmad</b> , Recent Advances in Chemistry (RAC-2015), Jamia
	Millia Islamia, New Delhi, March 26, 2015. Consolation Award
74.	Enhanced Multiferroic Properties of Nanocrystalline Ternary Oxides prepared by Low
	Temperature Methods, <b>Tokeer Ahmad</b> , International Conference on Futuristic Materials
	and Emerging Trends in Forensic and Life Sciences, Nagpur University and Institute of
	Forensic Science Nagpur, February 7, 2015.
<b>73.</b>	Synthesis and characterization of surface modified α-Fe <sub>2</sub> O <sub>3</sub> nanoparticles for biomedical
	applications, Ruby Phul, Meryam Sardar and Tokeer Ahmad, 102 <sup>th</sup> Indian Science
	Congress, University of Mumbai, Mumbai, January 3-7, 2015.
72.	Dielectric investigation of Barium Strontium Zirconium Oxide $Ba_{1-x}Sr_xZrO_3$ (x= 0.05,
	0.10, 0.15, and 0.20), prepared by microemulsion route, Mohd Ubaidullah and <b>Tokeer</b>
	Ahmad, National Seminar on "Metal Toxicity and Oxidative Stress", Jamia Millia
	Islamia, New Delhi, Sept 23-24, 2014.
71.	Gadolinium Ferrite Oxide Nanoparticles for the Multiferroic Application, Irfan H. Lone
	and Tokeer Ahmad, National Seminar on "Metal Toxicity and Oxidative Stress", Jamia
	Millia Islamia, New Delhi, Sept 23-24, 2014.
70.	Nanomaterials of Dielectric and Multiferroic Oxides by Metal Organic Precursor Route,
	<b>Tokeer Ahmad</b> , National Conference on Multifunctional Materials, Sharda University,
	Greater Noida, August 9, 2014.
69.	Reverse Micellar Synthesis, Dielectric and Surface Area Properties of Nanocrystalline
	$Ba_{1-x}Sr_xZrO_3$ (x= 0.05, 0.10, 0.15, and 0.20), Mohd Ubaidullah and <b>Tokeer Ahmad</b> ,
	National Conference on Multifunctional Materials, Sharda University, Greater Noida,
	Aug 8-9, 2014. Best Paper Award
68.	Fabrication of Multiferroic Nanocrystalline GdFeO <sub>3</sub> Using Metal Organic Precursor
	Method Achieving Enhanced Multiferroic Properties, Irfan H. Lone and <b>Tokeer Ahmad</b> ,
	National Conference on Multifunctional Materials, Sharda University, Greater Noida,
	Aug 8-9, 2014.
67.	Metal Organic Precursor Route for Pb-substituted BaZrO <sub>3</sub> Nanoceramics: Structural
	Characterization and Properties, <b>Tokeer Ahmad</b> , Mohd Ubaidullah, Omar A. Al-
	Hartomy, and Irfan H Lone, National Conference on Nanotechnology and Renewable
	Energy (NCNRE-14), Jamia Millia Islamia, New Delhi, April 28-29, 2014.
66.	Synthesis, Characterization and Dielectric Properties of Cerium Oxide Nanoparticles
	using Polymeric Citrate Precursor Route, Mohd. Shahazad and <b>Tokeer Ahmad</b> , Recent
	Advances in Chemistry (RAC-2014), Jamia Millia Islamia, New Delhi, March 24, 2014.
<b>(=</b>	Best Paper Award
65.	Reverse Micellar Synthesis and Structural Characterization of BSZ Nanoceramics for
	Dielectric Properties, Mohd Ubaidullah, Ruby Phul and <b>Tokeer Ahmad</b> , Recent
	Advances in Chemistry (RAC-2014), Jamia Millia Islamia, New Delhi, March 24, 2014.
64.	Structural, Characterization and Properties of Multiferroic Nanocrystalline YFeO <sub>3</sub> :
	Prepared by Polymeric Citrate Precursor Method, Irfan H. Lone and Tokeer Ahmad,

Recent Advances in Chemistry (RAC-2014), Jamia Millia Islamia, New Delhi, March
24, 2014. Best Paper Award

- Reverse Micellar Synthesis of Gold Nanoparticles: Structural Characterization, Antifungal Activity and Optical Properties, Irshad A. Wani and **Tokeer Ahmad**, International Conference on Nanoscience and Technology (ICONSAT-2014), INST Mohali, March 2-5, 2014.
- 62. Structural Characterization and Properties of Nanocrystalline Multiferroic Phases (YFeO<sub>3</sub> & YMnO<sub>3</sub>) Developed by Polymeric Precursor Method, Irfan H. Lone and **Tokeer Ahmad**, International Conference on Nanoscience and Technology (ICONSAT-2014), INST Mohali, March 2-5, 2014.
- Reverse Micellar Synthesis and Structural Characterization of BSZ and BPZ based Nanoceramics for Dielectric Applications, Mohd Ubaidullah and **Tokeer Ahmad**, International Conference on Nanoscience and Technology (ICONSAT-2014), INST Mohali, March 2-5, 2014.
- Nanoceramic  $Ba_{1-x}Sr_xZrO_3$  ( $0 \le x \le 1$ ) developed by Citrate Precursor route, Structural Characterization and Dielectric properties, Mohd Ubaidullah and **Tokeer Ahmad**,  $38^{th}$  International Conference and Exposition on Advanced Ceramics and Composites, American Ceramic Society, Florida USA, January 26-31, 2014.
- 59. Chemical Methods for Metals and Doped Nanomaterials, **Tokeer Ahmad**, International Conference on Interdisciplinary areas with Chemical Sciences (ICIACS 2013), Panjab University in association with Institute of Nano Science and Technology, Mohali, October 30, 2013.
- **58.** Polymeric Precursor Route to Nanomaterials, **Tokeer Ahmad**, National Workshop on Advances in Polymeric Materials, Aligarh Muslim University, Aligarh, Sept. 22, 2013
- Designing of Simple to Complex Nanomaterials, **Tokeer Ahmad**, International Conference on Multifunctional Materials, Energy and Environment, Sharda University, Greater Noida, August 23, 2013.
- Nanostructured Dilute Magnetic Semiconductors: Structural Characterization and Properties, **Tokeer Ahmad**, "8<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas" Dr. H. S. Gour Central University, Sagar, M.P., February 16, 2013.
- Synthesis, characterization and dielectric properties of Pb-doped BaZrO<sub>3</sub> via polymeric citrate precursor route by using metal salts in solid form, Mohd Ubaidullah and **Tokeer Ahmad**, "8<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas" (ISCAS-2013), Dr. H. S. Gour Central University, Sagar, M.P., Feb 15-17, 2013.
- Gold Nanoparticles: Microemulsion Synthesis and the Study of their Synergistic Antifungal Activity with Fluconazole against Candida, Irshad A. Wani and **Tokeer Ahmad**, "8<sup>th</sup> National Conference on Solid State Chemistry and Allied Areas" (ISCAS-2013), Dr. H. S. Gour Central University, Sagar, M.P., Feb 15-17, 2013.
- 53. Dielectric and Magnetic Properties of Nanocrystalline YFeO<sub>3</sub> Prepared by Facile Metal Organic Polymeric Citrate Precursor Method, Irfan H. Lone and **Tokeer Ahmad**, "8<sup>th</sup>

National Conference on Solid State Chemistry and Allied Areas" (ISCAS-2013), Dr. H.
S. Gour Central University, Sagar, M.P., Feb 15-17, 2013: Best Paper Award

- Transition Metal doped Indium and Cadmium Oxide based Dilute Magnetic Semiconductor Nanoparticles, **Tokeer Ahmad**, National Seminar on "Functional and Smart Materials", Sharda University, Greater Noida, January 11, 2013.
- 51. Structural Characterization, Optical and Magnetic Properties of In<sub>2-x</sub>Mn<sub>x</sub>O<sub>3</sub> (0.05, 0.10 and 0.15) Dilute Magnetic Semiconductor Nanoparticles, **Tokeer Ahmad** and Sarvari Khatoon, DAE-BRNS 4<sup>th</sup> Interdisciplinary Symposium on Materials Chemistry (ISMC-2012), Bhabha Atomic Research Centre (BARC), Trombay, Mumbai, Dec 11-15, 2012.
- Citrate Precursor Synthesis, Characterization and Dielectric Properties of  $Ba_{1-x}Sr_xZrO_3$  (0  $\leq x \leq 1$ ), Mohd Ubaidullah, Omar A. Al-Hartomy and **Tokeer Ahmad**, DAE-BRNS 4<sup>th</sup> Interdisciplinary Symposium on Materials Chemistry (ISMC-2012), Bhabha Atomic Research Centre (BARC), Mumbai, Dec 11-15, 2012.
- **49.** Structural Characterization and Magnetic Properties of Nanocrystalline LaMnO<sub>3</sub>, Irfan H. Lone and **Tokeer Ahmad**, DAE-BRNS 4<sup>th</sup> Interdisciplinary Symposium on Materials Chemistry (ISMC-2012), Bhabha Atomic Research Centre (BARC), Mumbai, Dec 11-15, 2012.
- **48.** Chemistry in Nanotechnology, **Tokeer Ahmad**, National seminar on "Chemistry in Technology" Ravenshaw University, Cuttack, Odisha, December 08, 2012.
- 47. Nanostructured Metals and Dilute Magnetic Semiconductors: Synthesis, Characterization and Properties, **Tokeer Ahmad**, Recent Trends in Nanoscience and Nanotechnology, University of Delhi, New Delhi, October 15, 2012.
- **46.** Synthesis and Characterization of Nanomaterials, **Tokeer Ahmad**, National Workshop on Nanoscience and Materials Characterization, Indian Association of Solid State Chemists and Allied Scientists (ISCAS), Jammu, June 10, 2012.
- Polymeric citrate precursor synthesis and properties of nano-sized Ba<sub>1-x</sub>Pb<sub>x</sub>ZrO<sub>3</sub>, Mohd Ubaidullah, Omar A. Al-Hartomy and **Tokeer Ahmad**, Recent Advances in Chemistry (RAC-2012), Jamia Millia Islamia, New Delhi, March 12, 2012.
- **44.** Transition metal (Mn & Ni) doped Indium oxide Nanoparticles, Sarvari Khatoon and **Tokeer Ahmad**, Recent Advances in Chemistry (RAC-2012), Jamia Millia Islamia, New Delhi, March 12, 2012.
- 43. Controlling the Size and Morphology of Silver Nanoparticles: Role of Chemical Routes, Irshad A. Wani and **Tokeer Ahmad**, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- **42.** Ultrasonic Wave Assisted Synthesis of Gold Nanoparticles: Effect of the Reductants on the Particle Size, Morphology; Surface Area and Optical Studies, Irshad A. Wani and **Tokeer Ahmad**, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- **41.** Citrate precursor synthesis and dielectric properties of nanocrystalline  $Ba_{1-x}Pb_xZrO_3$  (0  $\leq$

- $x \le 0.75$ ), Mohd Ubaidullah, Omar A. Al-Hartomy and **Tokeer Ahmad**,  $7^{th}$  National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- **40.** Manganese and Nickel Doped In<sub>2</sub>O<sub>3</sub> Dilute Magnetic Semiconductor Nanoparticles, Sarvari Khatoon and **Tokeer Ahmad**, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- 39. Synthesis, Characterization and Analytical Application of Fibrous Type 'Polymeric-Inorganic Composite Cation-Exchanger Nylon-6,6 Sn(IV) Phosphate: Its Application in Making Hg(II) Ion Selective Membrane Electrode, Tabassum Akhtar, Asif Ali Khan and Tokeer Ahmad, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- 38. Synthesis and Characterization of NiO by Thermal Decomposition of Nickel Linolate and their Optical Properties, Abul Kalam, Ayed Sad Al-Shihri, Gaohui Du and **Tokeer Ahmad**, 7<sup>th</sup> National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS-2011), Jamia Millia Islamia, New Delhi, Nov 24- 26, 2011.
- Controlling the Size and Morphology of Silver Nanoparticles: Role of Chemical Routes,
   Tokeer Ahmad, 2011 NSTI World Conference and Trade Show, Boston, USA, May 13-16, 2011.
- **36.** Chemical synthesis, characterization and properties of transition metal doped metal oxide nanoparticles, Sarvari Khatoon and **Tokeer Ahmad**, Recent Advances in Chemistry (RAC-2011), Jamia Millia Islamia, March 22, 2011.
- 35. Silica mesostructures and its applications, Aparna Ganguly, **Tokeer Ahmad** and A.K. Ganguli, Recent Advances in Chemistry (RAC-2011), Jamia Millia Islamia, New Delhi, March 22, 2011.
- 34. Chemical synthesis, characterization and properties of Mn-doped ZnO and CdO solid solutions, Sarvari Khatoon and **Tokeer Ahmad**, National Review and Coordination Meeting of NANO Mission Council, IIT Delhi, Feb 25 27, 2011.
- 33. Scale and Controlled Synthesis of Nano-Structured Materials, **Tokeer Ahmad**, First National Conference on "Recent Advances in Polymer Nanocomposites", Zakir Hussain College, Delhi University, January 14-15, 2011.
- Role of Surfactant in Stabilizing the Gold Nanoparticles in Microemulsions, Irshad A. Wani and **Tokeer Ahmad**, First National Conference on "Recent Advances in Polymer Nanocomposites", Zakir Hussain College, Delhi University, Jan 14-15, 2011.
- **31.** Large Scale Solvothermal Synthesis of Silver Nanoparticles, Irshad A. Wani and **Tokeer Ahmad**, International Interdisciplinary Science Conference "Nanobiotechnology: Interface between Physics and Biology" Jamia Millia Islamia, New Delhi, Dec 2-4, 2010.
- 30. A Study of the nanocrystalline solid solution  $Zn_{1-x}Mn_xO$  (x = 0.25, 0.50, and 0.75) prepared using solvothermal method, Sarvari Khatoon and **Tokeer Ahmad**, International Interdisciplinary Science Conference "Nanobiotechnology: Interface between Physics

	and Biology", Jamia Millia Islamia, New Delhi, Dec 2-4, 2010.
29.	Chemical Synthesis of Gold and Silver Nanoparticles, <b>Tokeer Ahmad</b> , Fourth Saudi
27.	Science Conference, Al-Madinah Al-Munawwarah, Kingdom of Saudi Arabia, March
	20-24, 2010.
28.	Chemical synthesis of silver nanoparticles, Irshad A. Wani and <b>Tokeer Ahmad</b> , Recent
20.	Advances in Chemistry (RAC-2010), Jamia Millia Islamia, New Delhi, March 10, 2010.
27.	Chemical Route to Nanotechnology, <b>Tokeer Ahmad</b> , Symposium-cum-Workshop on
	Nanotechnology, Nanotechnology Research Centre, DAVIET, Jalandhar, Feb 27, 2010.
26.	NANO: An Evolution of Science "Some Results of Silver and Gold Nanoparticles",
	<b>Tokeer Ahmad</b> , Nanotechnology: A Futuristic Application in all Disciplines of Science,
	St. Aloysius College Jabalpur, December 13, 2009.
25.	Chemical Synthesis of Silver Nanoparticles, <b>Tokeer Ahmad</b> , 6 <sup>th</sup> National Symposium
	and Conference of the Indian Association of Solid State Chemists and Allied Scientists,
	VIT University, Vellore, November 19-21, 2009.
24.	Solvothermal Synthesis, Characterization and Properties of Silver Nanoparticles, Irshad
	A. Wani and <b>Tokeer Ahmad</b> , 6 <sup>th</sup> National Symposium and Conference on "Solid State
	Chemistry and Allied Areas", VIT university, Vellore, Tamil Nadu, Nov 19- 21, 2009.
23.	Chemistry of Reverse Micelles: A Versatile Route to the Synthesis of Nanorods and
	Nanoparticles, Tokeer Ahmad, 2009 NSTI Nanotechnology Conference and Trade
	Show, Houston, Texas, USA, May 3-7, 2009.
22.	Fabrication of Nanorods and Nanoparticles: Application of Reverse Micelles, Tokeer
	Ahmad, The International Conference For Nanotechnology Industries: The Leading
	Technology of 21 <sup>st</sup> Century, Kind Saud University, Riyadh, Saudi Arabia, April 5-7,
	2009.
21.	Microemulsion route to metal organic precursors to obtain nanocrystalline oxides, A.
	Ganguly, T. Ahmad and A. K. Ganguli, International Symposium for Material
20	Chemistry, BARC, Trombay, Dec 2-6, 2008.
20.	Reverse Micelles: A Versatile Method for the Synthesis of Nanorods and Nanoparticles,
	Tokeer Ahmad, National Conference on Advanced Materials (NCAM-2008), Udai
10	Pratap Autonomous College, Varanasi, March 06-08, 2008.
19.	Nanostructures: Synthesis and Properties, A. Ganguly and T. Ahmad, Natural Science
18.	Info Fest, Jamia Millia Islamia, New Delhi, March 4-6, 2008.  Nanostructures of transition metal succinates: Precursor for metal and metal oxide
10.	nanoparticles, A. Ganguly, R. Kundu, <b>T. Ahmad</b> and A. K. Ganguli, International
	Conference on Nano Science and Technology, Chennai Trade Centre, Chennai, Feb. 27-
	29, 2008.
17.	Nanorods of Transition Metal Oxalates: A Versatile Route to the Oxide Nanoparticles,
	<b>Tokeer Ahmad</b> , 5 <sup>th</sup> National Symposium and Conference on Solid State Chemistry and
	Allied Areas, Nagpur University, Nagpur, Nov 28-30, 2007.
16.	Microemulsion Synthesis of Complex Oxide Nanoparticles and their Properties, <b>Tokeer</b>
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Ahmad, Second International Conference on Emerging Adaptive Systems and Technologies, (EAST-2007), Noorul Islam College of Engineering, Kumaracoil, Tamilnadu, October 25-27, 2007. Dynamic Light Scattering for zeta potential and particle sizing, Tokeer Ahmad, **15.** Workshop on "Nanotechnology" Current Status and Challenges, Indian Institute of Technology (IIT), Delhi, March 17-18, 2007. Nanorods and nanoparticles obtained by the reverse micellar route: Dielectric and 14. magnetic properties, **Tokeer Ahmad**, MRSI, 18<sup>th</sup> Annual General Meeting, Materials Research Society of India-Delhi Chapter & National Physical Laboratory (NPL) Delhi, February 12-14, 2007. Iron Oxalate Nanorods: Precursor to Iron Oxide Nanoparticles, Tokeer Ahmad and A.K. **13.** Ganguli, International Conference on Nanoscience and Technology (ICONSAT 2006), Indian Institute of Technology, Delhi, March 16-18, 2006. Mimicking the biomineralization of aragonite (calcium carbonate) using reverse-micelles 12. under ambient conditions, Jahangeer Ahmed, Tokeer Ahmad and A.K. Ganguli, MRSI, 17<sup>th</sup> Annual General Meeting, University of Lucknow, February 13-15, 2006. **Best Paper Award** Reverse micellar route to complex nanoparticles of manganites, Tokeer Ahmad and 11. A.K. Ganguli, MRSI, 17<sup>th</sup> Annual General Meeting, University of Lucknow, February 13-15, 2006. Nanocrystalline titanates (SrTiO<sub>3</sub>, Sr<sub>2</sub>TiO<sub>4</sub> and PbTiO<sub>3</sub>): Structural aspects and dielectric 10. properties, Tokeer Ahmad and A.K. Ganguli, XI<sup>th</sup> Symposium on Modern Trends in Inorganic Chemistry, IIT, Delhi, December 8-10, 2005. Best Paper Award. Nanoparticles of complex metal oxides synthesized using the reverse micellar and 9. polymeric precursor routes, **Tokeer Ahmad** and A.K. Ganguli, I<sup>2</sup> Tech, Indian Institute of Technology, Delhi, April 23, 2005. Surfactant mediated synthesis of nanorods of transition metal (Ni and Cu) oxalates using 8. reverse micellar route, Tokeer Ahmad and A.K. Ganguli, Fourth International Conference on Inorganic Materials, Elsevier Sciences in association with Solid State Sciences, Antwerp, Belgium, September 19-21, 2004. 7. Transmission electron microscopic studies of nanoparticles obtained by reverse-micellar route, Tokeer Ahmad and A.K. Ganguli, XXVII Annual Meeting of EMSI and Conference on Electron Microscopy and Allied Fields (EMSI-2004), Electron Microscopy Society of India and NPL New Delhi, April 1-3, 2004. Reverse micellar synthesis of uniform and monodisperse nanoparticles of MnO, Mn<sub>2</sub>O<sub>3</sub> 6. and Mn<sub>3</sub>O<sub>4</sub>, **Tokeer Ahmad** and A.K. Ganguli, INAE Conferences on Nanotechnology (ICON-2003), Central Scientific Instruments Organization (CSIO) Chandigarh,

Reverse micellar route to nano-sized dielectric ceramics, Tokeer Ahmad and A.K.

Ganguli, International Conference on Nanoscience and Technology (ICONSAT 2003),

December 22-23, 2003.

5.

	DST and Saha Institute of Nuclear Physics Kolkata, December 17-20, 2003.
4.	Nanoparticles of nickel oxide obtained by reverse micellar route, Tokeer Ahmad and
	A.K. Ganguli, National Symposium and Conference on Solid State Chemistry and Allied
	Areas, Indian Institute of Technology, Delhi, December 4-6, 2003.
3.	Synthesis, Characterization and dielectric properties of nanocrystalline Ba <sub>2</sub> TiO <sub>4</sub> through
	reverse micellar route, <b>Tokeer Ahmad</b> and A.K. Ganguli, Fifth National Symposium in
	Chemistry (NSC-5), CRSI and Central Leather Research Institute, Chennai, February 7-
	9, 2003.
2.	Synthesis, Characterization and dielectric properties of nanocrystalline BaTiO <sub>3</sub> obtained
	through a modified reverse micellar route, Tokeer Ahmad and A.K. Ganguli,
	International Symposium on Recent advances in Inorganic Materials, Indian Institute of
	Technology, Bombay, December 11-13, 2002.
1.	Reverse micellar route to nanoparticles of copper and nickel oxalates, Tokeer Ahmad
	and A.K. Ganguli, National Symposium on Nanostructured Materials, Indian Institute of
	Technology, Delhi, December 5-6, 2002.

# **Workshops/Conferences Attended without Presentation: 14**

14.	Indo-US Joint Meeting organized by IIT Delhi, November 28-30, 2022.
13.	Intellectual Property Rights Awareness/Training Program under NIPAM Mission of Govt.
	of India organized by Intellectual Property Office, India on January 14, 2022.
12.	Two days "Virtual International Conference on 'Multifunctional Advanced Materials'
	(VICMAM-2021)" organized by Department of Chemistry, JVM's Degree College in
	collaboration with Association of Chemistry Teachers (ACT), August 9-10, 2021.
11.	Three days "International Webinar Series on Emerging Compound Semiconductor
	Devices and Technologies (ECS-2021)" organized by IIT Mandi, August 5-7, 2021.
10.	Two days' online Training Course for other stakeholders (Teaching Faculty of Colleges)
	on Conservation Issues in India organized by Central Academy for State Forest Service,
	Dehradun under the aegis of Ministry of Environment, Forest and Climate Change,
	Government of India, July 19-20, 2021.
9.	Advanced Materials: Current Trends & Future Prospects, Manali organized by INST
	Mohali, May 28-June 01, 2015.
8.	INDO-US bilateral meeting on "New Functional Materials: Synthesis, Properties and
	Methods" Manali organized by IIT Delhi, June 2-7, 2011.
7.	NSNT 2011; National Review & Coordination Meeting of Nanomission Council, IIT
	Delhi, Feb 25-27, 2011.
6.	A discussion meeting on "Future directions of Advanced Materials Research (FDAMR-
	2008)" Shimla, April 16-19, 2008.
5.	Summer School Workshop on "Chromatographic Techniques", Jamia Millia Islamia,
	Delhi, Sept 10, 2009.

4.	Workshop on "Nanotechnology" Current Status and Challenges, IIT Delhi, March 17-18,
	2007.
3.	Applications of Nuclear Magnetic Resonance to materials and medicine, IIT Delhi, Nov
	21, 2006.
2.	National workshop on Materials Characterization, BARC Mumbai, Oct 11-15, 2004.
1.	National Symposium and Conference on Solid State Chemistry and Allied Areas, IIT
	Kanpur, Dec 6-8, 2001.

## **Brief Research Profile:**

Advanced functional materials is an interdisciplinary field involving properties and applications to various areas in basic sciences, engineering and medical sciences. Recent progress in nanotechnology has opened doors to the production of much cheaper and more efficient tools for green energy. Properly designed nano-heterostructures show superior efficiencies for photo/electro/photoelectro catalytic water splitting for hydrogen generation as green and sustainable energy. My research group engaged in developing the heterostructured based advanced materials using different chemical routes for desired physicochemical properties. Asprepared nanostructures have been tested for hydrogen generation through overall water splitting, organic transformations and gas sensing applications. Our research covers wide range of interdisciplinary topics dealing with various aspects of functional nanomaterials. Presently, we are focusing on the following research areas of Nanotechnology:

- 1. Designing of Heterostructured Nanomaterials for Photocatalytic, Electrocatalytic & Photoelectrocatalytic Water Splitting Reactions for Hydrogen Generation.
- 2. Development of Nanocatalysts for Organic Transformations.
- 3. Development of Nanocomposites for Gas Sensing Applications.
- 4. Development of Functional Nanostructures for CO<sub>2</sub> Sequestration in Environmental Remediation.

#### **Declaration:**

I hereby declare that the information furnished above is true to the best of my knowledge.

(Prof. Tokeer Ahmad)

**January 1, 2025**