



AT PRESENT

2020 **Assistant Professor**, Chemistry (Feb. 03, 2020 - till date)
J. C. Bose University of Science and Technology, YMCA, Faridabad 121006 INDIA

EDUCATION

2014 **Ph.D.**, Chemistry, Indian Institute of Science Education and Research (IISER), Pune
Title: Atomistic Investigation of Polymer Electrolyte Membrane Nanostructure and Dynamics of Molecular Transport in Fuel Cells
2009 **M.Phil., Energy (67.60%)**, Center for Non-conventional Energy Resources, University of Rajasthan, Jaipur
2008 **M.Sc., Physical Chemistry (68.30%)**, Department of Chemistry, University of Rajasthan, Jaipur
2006 **B.Sc., Chemistry (78.08%)**, Shri Kalyan Govt. PG College (Sikar), University of Rajasthan, Jaipur
2002 **High School (73.23%)**, Shri Kalyan Govt. Sr. Sec. School (Sikar), Board of Secondary Education, Ajmer
2000 **Secondary (86.50%)**, AVM Sec. School (Sikar), Board of Secondary Education, Ajmer

RESEARCH EXPERIENCE (12+ YEARS)

- DST INSPIRE Faculty (Research Grant - 35 Lakhs) (March 2015 - March 2020)
 - Sharda University [Oct 2019 to Feb 2020]
 - Central University of Rajasthan [July 2017 to Oct 2019]
 - Central University of Haryana [July 2015 to July 2017]
 - PDU Shekhawati University [March 2015 to July 2015]
- Postdoctoral Research Associate (Supervisor: Prof. Balasubramanian Sundaram)
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru (Feb. 2014 - March 2015)
- Project Assistant - II (Supervisor: Dr. U. K. Kharul)
PSE Division, National Chemical Laboratory, Pune (Aug. 2009 - Dec. 2009)

AWARDS/FELLOWSHIPS

2016 **SERB - International Travel Support**, For EMN Meeting on Fuel Cells, Korea-Rok
2014 **INSPIRE Faculty Award**, Materials Sciences, by DST, New-Delhi
2011 **Rajat Jayanti Vigyan Sancharak Fellowship**, by NCSTC, DST, New-Delhi
2010 **CSIR-UGC NET JRF**, (Chemical Sciences) Rank 314 (2009)
2009 **GATE 2009**, Chemical Sciences, 90.46 percentile score

SELECTIVE PUBLICATIONS

- P. Sharma and A. P. Sunda* *ACS APPL. POLYM. MATER.* **2026**, 8(13), 10887-10897.
- A. P. Sunda*, and A. K. Sharma* *ACS PHYSICAL CHEMISTRY AU* **2024**, 4(1), 57-66.
- A. Mondal* and A. P. Sunda* *PHYS. CHEM. CHEM. PHYS.* **2018**, 20(28), 19268-19275.
- A. P. Sunda* *J. MATER. CHEM. A* **2015**, 3(24), 12905-12912.
- A. P. Sunda*, A. Mondal, and S. Balasubramanian* *PHYS. CHEM. CHEM. PHYS.* **2015**, 17(6), 4625-4633.

TEACHING EXPERIENCE (11+ years)

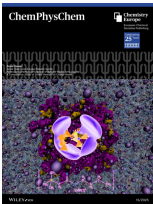
- At J. C. BOSE UST, YMCA: (16 hrs. per week)
Physical Chemistry courses of Ph.D./B.Sc. Chemistry (Hons.)/M.Sc. Chemistry Programmes
- Designed Elective PG Course (—At CU, Rajasthan) : **ADVANCED COMPUTATIONAL CHEMISTRY** Credit: 04
- At CENTRAL UNIVERSITY, RAJASTHAN: (14 - 16 hrs. per week)
Physical Chemistry courses of Ph.D./Int. M.Sc./M.Sc./M.Sc.-B.Ed. Programmes
- At CENTRAL UNIVERSITY, HARYANA: (12 - 16 hrs. per week)
Physical Chemistry core courses/Labs of M.Sc. Chemistry

PERSONAL INFORMATION:

Date of Birth: June 30, 1986 (Age ~ 40+ Years)

Nationality: Indian

PUBLICATIONS

- 2026 Molecular Simulations of CO₂-Ionic Liquid Interactions in Choline-Amino Acid Systems
S. Yadav, R. K. Singh* and **A. P. Sunda***
[J. PHYS. CHEM. B](#), **2026**, Just Accepted. [IF - 3.2]
- Atomistic Simulation of Side-Chain Architecture and Head-Group Chemistry in Tailored Perfluorinated Anion Exchange Membranes
P. Sharma and **A. P. Sunda***
[ACS APPL. POLYM. MATER.](#), **2026**, 8(13), 10887–10897. [IF - 5.2]
- Atomistic Simulations of Betaine-based Ionic Liquids Composite with Nafion Polymer Membranes
S. Yadav and **A. P. Sunda***
[MACROMOL. CHEM. PHYS.](#), **2026**, 227(14), e70304. [IF - 2.8]
- Insights into Structural Organization and Dynamics of Betaine-Based Ionic Liquids from Molecular Dynamics Simulations
S. Yadav and **A. P. Sunda***
[DISCOV. CHEM.](#), **2026**, 3, 211.
- 
- Transformative Progress in Anion Exchange Membranes for Fuel Cell Technology
P. Sharma, and **A. P. Sunda***
[ENERGY ADV.](#), **2026**, 5, 610–631.
👉 **[Featured on the Journal Inside Front Cover]** [IF - 6.3]
- 
- Atomistic Insights into Structure–Morphology Relationships in Hydrated Poly(benzimidazolium) and Poly(bis-arylimidazolium) Ionene Membranes
S. Dagar, and **A. P. Sunda***
[MOL. SYST. DES. ENG.](#), **2026**, 11, 255–268.
👉 **[Featured on the Journal Back Cover]** [IF - 3.2]
- Effect of Anion in Zn-Based Aqueous Electrolyte on Electrochemical Performance of Prussian Blue Analogue
A. Sethi, C. Rajeev, Anil K. U., P. Sharma, **A. P. Sunda*** and V. M. Dhavale*
[BATTERIES & SUPERCAPS.](#), **2026**, 9, e202500488. [IF - 4.5]
- Molecular Analysis of Vibrational and Structural Characteristics in Bi-thiazole Derivatives
S. Dagar, V. Chaudhri, S. Yadav, R. Pundeer, **A. P. Sunda***
[DISCOV. CHEM.](#) **2026**, 3, 1.
- 2025 Heteroatom-Rich Activated Carbon Nanofibre Cathode in Aqueous Acetate-Based Electrolyte Enables Enhanced Performance of Zn-Ion Hybrid Supercapacitors
H. Gupta, S. Dagar, M. Hariram, R. Dev, P. Sharma, M. Kumar, **A. P. Sunda*** and D. Sarkar*
[J. ENERGY STORAGE](#), **2025**, 137, 118681. [IF - 10.7]
- Nanohexagonal NiCeO₂ for Al-Air Batteries: A Combined Experimental and DFT Study of ORR Activity
S. T. Dharmalingam, P. Sharma, **A. P. Sunda**, M. Minakshi,* and R. Sivasubramanian*
[CHEMELECTROCHEM](#), **2025**, e202500274. [IF - 5.2]
- Tailoring Ionic Liquid Properties via Amino Acid Anions: Structural Influence of Isoleucine, Methionine, and Serine Anions
S. Yadav and **A. P. Sunda***
[PHYS. CHEM. CHEM. PHYS.](#), **2025**, 27, 18586-18594. [IF - 3.0]
- 
- Molecular Dynamics Simulations of Betaine-based Ionic Liquids: A comparative study of Scaled versus Full Charge Model
S. Yadav and **A. P. Sunda***
[CHEMPHYSCHEM](#), **2025**, 26 (15), e202500139.
👉 **[Featured on the Journal Cover]** [IF - 2.4]

- 2025 Micelle-Assisted Electrodeposition of γ -MnO₂ on Lead Anodes: Structural and Electrochemical Insights
M. Minakshi*, R. Aughterson, P. Sharma, **A. P. Sunda**, K. Ariga, and L. K. Shrestha*
[CHEM NANOMAT](#), **2025**, 11(10), e202500270. [IF - 2.6]
- Molecular Insights of Hydrated Perfluoro Quaternary Ammonium Anion Exchange Membranes: Ionomer Structure and Hydroxide Ion-transport
P. Sharma and **A. P. Sunda***
[ACS APPL. POLYM. MATER.](#), **2025**, 7(3), 1886-1895. [IF - 5.2]
- Molecular insights into binary ionic melts of protic ionic liquid 1,2,4-triazolium methanesulfonate and methanesulfonic acid electrolyte
S. Dagar, S. Liu, J. Luo* and **A. P. Sunda***
[J. PHYS. CHEM. B.](#), **2025**, 129(1), 338–347. [IF - 3.2]
- The Future of Membrane Technology: Perspectives of Advanced Membrane Technology
A. P. Sunda*
[JCBJETS](#) **2025**, 1(1), 1-14.
- 2024 Assessing the Impact of Antisolvent-Regulated ZnCl₂ Water-in-Salt Electrolyte on Solvation Structure: A Multiscale Computational Validation for Aqueous Zn-ion Battery Application
A. Sethi, C. Rajeev, Anil K. U., P. Sharma, **A. P. Sunda*** and V. M. Dhavale*
[J. MATER. CHEM. A](#), **2024**, 12, 23049-23058. [IF - 9.2]
- Hydroxide Ion Conduction through Viologen-based Covalent Organic Frameworks (vCOFs): An Approach towards the Advancement
P. Jhariat, Anil K. U., A. Warriar, **A. P. Sunda**, S. Das, S. Sarfudeen, V. M. Dhavale, and T. Panda*
[ACS APPLIED MATERIALS & INTERFACES](#), **2024**, 16(18), 23387–23395. [IF - 7.8]
- Molecular Insights of Cu/Zn metal response to the Amyloid β -peptide (1-42)
A. P. Sunda*, and A. K. Sharma*
[ACS PHYSICAL CHEMISTRY AU](#) **2024**, 4(1), 57–66. [IF - 4.8]
- 2023 Atomistic Simulations of Hydrated Sulfonated Polybenzophenone Block Copolymer Membranes
A. P. Sunda*, Soni Singh, Sonia Yadav, Raman K Singh*
[CHEMPHYSICHEM](#) **2023**, 24 (16), e202300104. [IF - 2.4]
- 2020 Selenium coordinated palladium(II) trans-dichloride molecular rotor as catalyst for site selective annulation of 2-arylimidazo[1,2-a]pyridines
H. Joshi, N. Meena, S. Sharma, R. Bhatt, V. N. Shinde, **A. P. Sunda**, N Bhuvanesh and A. Kumar
[CHEM. COMMUN.](#) **2020**, 56, 10223-10226. [IF - 4.3]
- 2018 Molecular Dynamics Simulations of Ammonium/Phosphonium-based Protic Ionic Liquids: Influence of Alkyl to Aryl group
A. Mondal* and **A. P. Sunda***
[PHYS. CHEM. CHEM. PHYS.](#) **2018**, 20, 19268-19275. [IF - 3.0]
- Nanoscale Defolding Influence of Polypeptide in Charge Transfer Process through Organic-Inorganic Nano Hybrid System
P. Roy*, N. K. Uriel and **A. P. Sunda***
[NANOSCALE](#) **2018**, 10(23), 11143-11149. [IF - 5.2]
- 2016 Thermal Phase Behavior and Ion Hopping in 1,2,4-Triazolium Perfluorobutanesulfonate Protic Organic Ionic Plastic Crystal
A. Mondal, **A. P. Sunda** and S. Balasubramanian*
[PHYS. CHEM. CHEM. PHYS.](#) **2016**, 18(3), 2047-2053. [IF - 3.0]
- 2015 Ammonium-based Protic Ionic Liquid Doped Nafion Membrane as Anhydrous Fuel Cell Electrolyte
A. P. Sunda*
[J. MATER. CHEM. A](#) **2015**, 3(24), 12905–12912. [IF - 9.2]
- Atomistic Simulations of Ammonium-based Protic Ionic Liquids: Steric Effects on Structure, Low Frequency Vibrational Modes and Electrical Conductivity
A. P. Sunda*, A. Mondal, and S. Balasubramanian*
[PHYS. CHEM. CHEM. PHYS.](#) **2015**, 17(6), 4625–4633. [IF - 3.0]

- 2014 Structure and Dynamics of Benzyl-NX₃ (X=Me, Et) Trifluoromethanesulfonate Ionic Liquids
A. P. Sunda, V. M. Dhavale, K. Sreekumar and A. Venkatnathan*
J. PHYS. CHEM. B **2014**, 118(7), 1831-1838. [IF - 3.2]
- Polymer Chain Length, Phosphoric Acid Doping and Temperature Dependence on Structure and Dynamics of ABPBI [poly(2,5-benzimidazole)] Polymer Electrolyte Membrane
M. More, **A. P. Sunda** and A. Venkatnathan*
RSC ADVANCES **2014**, 4(38), 19746-19755. [IF - 6.1]
- 2013 Molecular Dynamics Simulations of Side Chain Pendant of PFSA Polymer Electrolyte Membranes
A. P. Sunda and A. Venkatnathan*
J. MATER. CHEM. A **2013**, 1(3), 557-569. [IF - 9.2]
- A Molecular Investigation of Structure and Dynamics of the Phosphoric/Triflic Acid Blends of ABPBI (2,5-Benzimidazole) Polymer Electrolyte Membrane
A. P. Sunda, M. More and A. Venkatnathan*
SOFT MATTER **2013**, 9(4), 1122-1131. [IF - 2.9]
- Parametric Dependence on Shear Viscosity of SPC/E Water from Equilibrium and Non-equilibrium Molecular Dynamics Simulations
A. P. Sunda and A. Venkatnathan*
MOLECULAR SIMULATION **2013**, 39(9), 728-733. [IF - 2.34]
- 2012 Atomistic Simulations of Structure and Dynamics of Hydrated Aciplex Polymer Electrolyte Membrane
A. P. Sunda and A. Venkatnathan*
SOFT MATTER **2012**, 8(42), 10827-10836. [IF - 2.9]
- 2011 Molecular Dynamics Simulations of Triflic Acid and Triflate/water Mixture: A Potential Electrolyte in Fuel Cells
A. P. Sunda* and A. Venkatnathan*
J. COMPUT. CHEM. **2011**, 32(15), 3319-3328. [On Cover] [IF - 2.9]

BOOK CHAPTER(S)

- 2024 Chapter Title: 'Advances in Electrolyte Materials for Battery: Status, Challenges and Outlook'
Book: 'Materials for Boosting Energy Storage: Recent Advances and Applications in Sustainable Energy Technologies'
Author(s): Mehak Bhatia, Parul Sharma, and **A. P. Sunda**, 2024 Chapter 9 pp 195-223.
ACS Symposium Series Vol. 1477 DOI: [10.1021/bk-2024-1477.ch009](https://doi.org/10.1021/bk-2024-1477.ch009)
- 2021 Chapter Title: 'Advances in Environmental Applications of Metal-Organic Frameworks'
Book: 'Metal-Organic Frameworks for Environmental Remediation'
Author(s): **A. P. Sunda** and S. Yadav, 2021, Chapter 2 pp 25-52.
ACS Symposium Series Vol. 1395 DOI: [10.1021/bk-2021-1395.ch002](https://doi.org/10.1021/bk-2021-1395.ch002)

SPONSORED/RESEARCH PROJECTS

- 2026 **HSCSIT Research Grant:** F. 2026-1604 (Ongoing)
Project Title: Antisolvent-Engineered Clean Energy Vision
Awarded by: Haryana State HSCSIT under DST Haryana
Duration: 3-Years w.e.f. June 2026
Grant: **INR 25,00,000/-**
- 2023 **SERB Core Research Grant:** F. CRG-001938 (Completed)
Project Title: Microphase Separation Membrane Fuel Cell Applications
Awarded by: SERB New Delhi
Duration: 3-Years w.e.f. Jan 7, 2023
Grant: **INR 32,14,464/-**
- 2022 **UGC BSR Start-up Grant:** F. 30/589-2021 (Completed)
Project Title: Polymeric Form of Ionic Liquids
Awarded by: University Grants Commission
Duration: 2-Years w.e.f. June 17, 2022
Grant: **INR 10,00,000/-**

- 2021 **Research Seed Money Award** (Completed)
Project Title: Polymer Composite of ionic Liquids
 Awarded by: J. C. Bose University of Science and Technology, YMCA
 Duration: July 2021 to March 2023 (2-Years)
 Grant: **INR 2,00,000/-**
- 2015 **DST INSPIRE Faculty:** DST/INSPIRE/04/2014/015731 [IFA14-MS31] (Completed)
Project Title: Ab Initio Molecular Dynamics simulation of Ionic Liquid doped Polymer Electrolyte Membranes and Platinum Electrode Interface
 Awarded by: Department of Science and Technology, Delhi
 Duration: March 2015 to March 2020 (5-Years)
 2nd Year Review Grading: **Very Good**
 Grant: **INR 35,00,000/-**
- 2011 **Rajat Jayanti Vigyan Sancharak Fellowship:** CO/S/TR/F09/2012 (Completed)
Project Title: Molecular Modeling in Design and Development of Novel Materials for Renewable Energy
 Awarded by: National Council of Science & Technology, DST, New-Delhi.
 Duration: Jan 2013 to Dec 2013 (1-Year)
 Host Institute: Indian Institute of Science Education and Research (IISER), Pune
 Grant: **INR 2,29,000/-**

RESEARCH GUIDANCE [PHD SUPERVISION]

- 2020-26 *J. C. Bose University of Science and Technology*
- **Sonia Yadav** (20001901005) [Viva-Voce]
Biodegradable Ionic Liquid Electrolytes for Fuel Cell Application
 - **Parul** (22001901003) [Ongoing]
Electrolytes for Anion Exchange Membrane Fuel Cell Application
 - **Rahul** (New Joining) [Ongoing]
Multi-scale Modelling of Non-stoichiometric Electrolytes

RESEARCH GUIDANCE [PG DISSERTATIONS - 26]

- 2020-26 *J. C. Bose University of Science and Technology*
- Abhilasha (24001751002)
Structure-Reactivity Relationships of Phthalate Esters in Secondary Aerosol Formation
 - Prachi Chandila (21001751033)
Atomistic Simulation of Tetramethyl Ammonium Cation and bis(trifluoromethanesulfonyl)imide Anions based Protic Organic Ionic Plastic Crystal
 - Shweta Dagar (21001751057)
Molecular Modeling of Acetamidium perchlorate Organic Ionic Plastic Crystal
 - Ajay Soni (20001751004)
Atomistic simulations of Glycine and Serine Amino Acid based Biodegradable Ionic Liquids
 - Jyotika (20001751023)
Molecular Dynamics Simulations of Aliphatic Amino Acid Based Ionic Liquids
 - Mehak Bhatiya (20001751029)
Molecular Dynamics Simulations of Biodegradable Aromatic Amino-Acid Based Ionic Liquids
 - Parul Sharma (19001751036)
Molecular Dynamics Simulations of Ionic Liquid Doped Nafion as Anhydrous Fuel Cell Electrolyte
 - Preeti Malviya (19001751042)
Simulations of 1,2,4-triazole methanesulfonate Protic Ionic Liquid as High-Temperature Fuel Cell Electrolyte
 - Anchal Gupta (18001751005)
Molecular Dynamics Simulations of silicon-based pre-ceramic Poly(borosiloxane)s
 - Gaurav (18001751010)
Molecular Modelling of silicon-based preceramic poly(carbosilane)s Polymers
 - Kritika Sehgal (18001751016)
Molecular Dynamics Simulations of sulfonated polyarylene Ether Ketone as Low Temperature Polymer Electrolyte

- Munesh (18001751024)
Molecular Modelling of Hydrated poly(arylene ether) Polymer Electrolyte for Fuel Cell Applications
- Preeti Kasana (18001751038)
Atomistic Simulations of silicon-based Poly(methylsiloxane)s/ oxycarbide poly(carbosiloxane)s polymers
- Rachna Verma (18001751043)
Molecular Modelling of Sulfonated polybenzophenone Polymer Electrolyte for Fuel Cell Applications

2017-19 **Central University of Rajasthan**

- Snehraj Gaur (2016IMSBCH013)
Hydrophobic Interface Analysis of Amyloid A $\beta_{(1-42)}$ Peptide Plaque using Molecular Dynamics Simulations
- Kailash Mohar (2016IMSBCH015)
Atomistic simulations of SO₂ Interactions with Amino-Acid based Bio-degradable Ionic Liquids
- Pradhuman Singh (2016IMSBCH020)
Atomistic Simulations of Cholinium Cation and Amino-Acid based Ionic Liquids
- Yogita Gupta (2017MSCH009)
CO₂ Sequestration using Atomistic Simulations of Cholinium based Ionic Liquids
- Srishti Gaur (2013IMSBCH023)
Molecular Dynamic Simulation of Cholinium-Amino Acids based Ionic Liquid

2015-17 **Central University of Haryana**

- Sadhna Kaliramana (CU Haryana - 6164)
Molecular Dynamics Simulations of Betaine-based Ionic Liquids for CO₂ Sequestration
- Amit Singh (CU Haryana - 6167)
Atomistic Investigation of Ion-Transport in Aqueous betaine-based Ionic Liquids
- Jasveer Punia (CU Haryana - 6182)
Effect of Anions in Ionic Liquids for the Application to SO₂ Capture
- Gaurav Panday (CU Haryana - 5174)
Molecular Investigation of Ion-Transport in Aqueous Imidazolium-based Ionic Liquid
- Manjeet Kumar (CU Haryana - 5179)
CO₂ Sequestration in 1-butyl-1-methyl-pyrrolidinium-based Ionic Liquids: A Molecular Dynamics Simulation Study
- Sonia Yadav (CU Haryana - 5189)
Atomistic Simulations of butyl-pyridinium based Ionic Liquid: An Application to SO₂ Capture
- Ruchi Goyal (CU Haryana - 5582)
Molecular Dynamics Simulations of CO₂ in 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide IL

ACADEMIC ACTIVITIES

- April - 2026 **Convener** of Expert Lecture by Prof. Tarak Karmakar, IIT Delhi on April 23, 2026.
'Topic: AI4Science – Modelling Chemical Transformations of Biomolecular Processes'
- Nov - 2025 **Convener** of One Day Workshop on 'YOUTH & SCIENTIFIC FUTURES: TOWARDS A SAMRIDDH BHARAT' held on November 25, 2025.
- Feb - 2025 **Convener** of 1-Day Seminar by Prof. M. Minakshi, Murdoch University, Australia held on Feb. 13, 2025.
'Topic: Role of Long-Duration Energy Storage in the Energy Transition – Open opportunities for Australia and India'
- July - 2024 **Convener** of 1-Day Seminar by Dr. Andrey Schebave, Senior Research Associate, Basque Centre for Materials, Leioa, Spain held On July 16, 2024.
Topic: Smart Polymer Materials for Biomedicine, Energy-related Applications, Sensors and Actuators
- Feb - 2023 **Convener** of One Day Innovation and Entrepreneurship Outreach Program at National Council for Cement and Building Materials on Feb. 07, 2023 Organized by the Institution's Innovation Council & Department of Chemistry/Civil Eng.
- Aug - 2022 **Convener** of the Panel Discussion of the Institution Innovation Council Q-4 Activity held on August 18, 2022.
Invited Speakers: Dr. Vishal (CSIR-CECRI) & Mr Alkesh.
Topic: Innovation and Start-up: Electric Vehicles Challenges.

- Nov - 2021 **Convener** of the Webinar of the Institution Innovation Council Q-1 Activity held on November 17, 2021.
Invited Speaker: Dr. Anuj K Sharma, from Central University of Rajasthan
Topic: Coordination Chemistry & Alzheimer's Disease: Innovations & Challenges.
- Dec - 2020 **Convener** of the Webinar on the theme 'To innovate and integrate' held on December 14, 2020.
Invited Speaker: Dr. Vishal M Dhavale, Scientist from CSIR-CECRI
Topic: Fuel Cells - The challenges and advancement in Indigenous Technology.
- Nov - 2020 **Convener** of one-week **National e-Workshop** cum value added course on 'HANDS-ON TRAINING & PRACTICES IN COMPUTATIONAL CHEMISTRY' held from Nov 23-27, 2020. ([Click here](#) for Flyer & Report)
- May - 2020 Organized One Week Online Faculty Development Program (OFDP) as Observer on the 'Spectroscopy Techniques and Applications'.
- Sept - 2016 Organized One Day National Symposium on "Recent Trends on Eco-friendly Chemistry" as a member at CUH.
- Feb - 2016 Organized National Science Day as a member of organizing committee on 28-02-2016/17 in the coordination with all science departments at CUH.
- Oct - 2015 Visited 'Jawaharlal Nehru University (JNU)' and 'Inter University Acceleration Centre (IUAC)', Delhi on 24.09.2015 as a representative of the University, for the establishment of Center of High-Performance Computing (C-HPC) and submitted proposal for the same to the University/UGC.
- Aug - 2015 Organized three day Workshop on 'Thin Film and Vacuum Technology' as a member of organizing committee from 22-09-2015 to 24-09-2015 at Department of Chemistry in the coordination with Department of Physics at CUH.

WORKSHOP, SEMINAR AND CONFERENCES

INVITED LECTURES

- May - 2026 Invited lecture in Int. Conference on Climate Change, Sustainable Development & Health Risk (ICS&H – 2026), at Central University of Haryana held on 6 May 2026.
- Nov - 2025 Invited lecture in AICTE sponsored two day workshop on 'Hydrogen Energy: Towards a Sustainable and Self-Reliant Future' at Shri Vishwakarma Skill University (SVSU), Palwal held on 20-21 Nov 2025.
- Sept - 2025 Resource Person in Valedictory of Workshop on 'RuSETUP: Empowering Rural Youth through Machine Learning' at CCS Haryana Agricultural University Hisar, Haryana (Bawal) held on 8–12 Sep 2025.
- Feb - 2025 Resource Person in FDP on Recent Advancement in Functional and Smart Materials (RAFSM-25) at Madan Mohan Malaviya University of Technology, Gorakhpur held on Feb. 3-7, 2025.
- July - 2024 International Conference on Renewable Energy and Sustainable Technologies (ICREST-2024) organized by Jamia Millia Islamia, New Delhi - 110025, India held on July 04-06, 2024.
- Dec - 2023 Resource Person in FDP on Emerging Trends in Soft & Functional Materials (ETSF-23) at Madan Mohan Malaviya University of Technology, Gorakhpur held on Dec. 12, 2023.
- Sept - 2023 International Conference on Green Chemistry Solutions for Sustainable Future (ICGCSSF-2023) GITAM University Bangaluru held on Sept 20-22, 2023.
- March - 2022 International Conference on 'Emerging Trends in Science and Technology' (ICETST-2022) Vedanta PG Girls College, Sikar from March 29-31, 2022.
- July - 2021 International Conference (Virtual) ICRACS-2021, JCBose UST, YMCA Faridabad from July 14-16, 2021.
- Feb - 2020 Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram (The lead Centre of ISRO).
- March - 2019 National Conference: Energy and Environment (NCEE-2019) JNVU Jodhpur.
- June - 2016 Indian Institute of Science Education and Research (IISER), Mohali.
- May - 2016 EMN Meeting on Fuel Cells (May 23-27), Jeju Island, KOREA-ROK.
- Sep - 2013 One Day Awareness workshop on Science Communication (organized by DST, New-Delhi), Visvaniketan's IMEET-Mumbai.
- Jan - 2013 7th CRSI-RSC Symposium, IIT BHU-Varanasi.

ORAL PRESENTATIONS

- Oct - 2025 APA International Conference on Polymers for Advanced Technology (APA 2025) at Udaipur from 13–15 October, 2025.
- Feb - 2022 APA Nanoforum-2022, Nanomaterials & Nanoengineering.
(International e-Conference)
- Nov - 2014 NFM-2014, BITS-Pilani.
(A National Conference)
- Sep - 2012 Chemical Constellation Cheminar-2012, NIT-Jalandhar.
(An International Conference)
- Dec - 2010 3rd Polymer Science Congress MACRO, IIT New-Delhi.
(An International Conference)

POSTER PRESENTATIONS

- Nov - 2024 Joint Chemical Science RSC-CSJ Symposium: Materials for Energy Storage and Conversion, London (UK)
- Feb - 2019 Theoretical Chemistry Symposium, BITS Pilani.
- Jan - 2017 INSPIRE Faculty Interaction Meet, KIIT University, Bhubaneswar, Odisha.
- Mar - 2016 Emerging Trends in Applied Chemical Sciences, A National Symposium, Central University of Rajasthan.
- Aug - 2014 MD@50, An International Conference, JNCASR-Bengaluru.
- Dec - 2012 Theoretical Chemistry Symposium, IIT-Guwahati.
- Mar - 2011 International Symposium on Material Education, Yashada-Pune.
- Sep - 2010 RSC West India Ph.D. Symposium, University of Goa.

HONORARY WORK AND WORKSHOPS

- Aug - 2014 Volunteer in MD@50, International Conference, JNCASR-Bengaluru.
- Mar - 2013 Volunteer in 1st Indo-US Research Fellowship Conclave at Pune.

MEMBERSHIPS

- 2021 Life Time Member of Asian Polymer Association (APA) [L 623]
- 2015 Life Time Member of Chemical Research Society of India (CRSI) [LM 1847]

ADDITIONAL RESPONSIBILITIES

@J. C. Bose University of Science and Technology

- **Deputy Director** - Central Research Facility (Since Sept 2025)
- **Assistant Director** - Research Development Cell (Since April 2026)
- **Incharge** - University Guest House (2022-2025)
- **Incharge** - University Old Guest House (2022-2025)
- **Coordinator** -Research & Development (2021-2025)
- **Coordinator** - IQAC: NAAC Criteria-1 (Since Nov. 2022)
- **Maker** - CSIR Fellowships (2021-2022)
- **Coordinator** - PhD Program in Chemistry (Since April 2020)
- **Co-Coordinator** -Sports (Eklavya Club under office of Student Welfare) (2020-2024)
- **Nodal Officer** - Fit-India Programme (2020-2024)
- **Deputy Centre Supdt.:** NTA (Re) NEET-UG Exam 2026 (June 21, 2026)
- **Deputy Centre Supdt.:** NTA NEET-UG Exam 2026 (May 3, 2026)
- **Deputy Centre Supdt.:** NTA NEET-UG Exam 2025 (May 4, 2025)
- **Deputy Centre Supdt.:** NTA CET Exam 2022 (November 5-6, 2022)
- **Member (Addnl.)** -Focused Research Group (FRG) in Quantum Technologies (Since 2026)
- **Member (Activity Coordinator)** -Institute Innovation(s) Council (2020-2023)
- **Member** - Research Advisory Council (2023-2024)
- **Member** - HSEHC UG Chemistry Model Curriculum Design (2021-2022)
- **Member of Board of Studies (BOS)** Chemistry, JCBoseUST, YMCA. (2021-2023)
- **Member of Board of Faculty (BOF)** Sciences, JCBoseUST, YMCA (July 28, 2020 to July 27, 2022)

OTHER (MISC.)

Election Duty

- **Presiding Officer** : MCF Faridabad Election HR 2025 - Prithla (Faridabad) (March 02, 2025)
- **Presiding Officer** : Assembly Election HR 2024 - Prithla (Faridabad) (Oct 5, 2024)
- **Presiding Officer** : General Election 2024 - Badkal (Faridabad) (May 25, 2024)
- **Duty Magistrate** : Haryana Panchayat Election 2022 - Faridabad Block (November 22 & 25, 2022)

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