

# Dr. Anurag Prakash Sunda

Assistant Professor, Chemistry  
J. C. Bose University of Science and Technology, YMCA  
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## 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.* **2025**, 7(3), 1886-1895.
- 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 (10+ years)


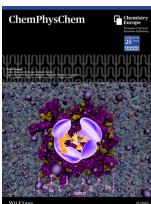
- AT J. C. BOSE UST, YMCA: (16 hrs. per week)  
Physical Chemistry courses of Ph.D./B.Sc. Chemistry (Hons.)/M.Sc. Chemistry Programmes
- Designed Elective PG Course (—At CU, Rajasthan) : **ADVANCED COMPUTATIONAL CHEMISTRY** Credit: 04
- AT CENTRAL UNIVERSITY, RAJASTHAN: (14 - 16 hrs. per week)  
Physical 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 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, Just Accepted. [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, Just Accepted. [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 NiCeO<sub>2</sub> 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]
- Micelle-Assisted Electrodeposition of  $\gamma$ -MnO<sub>2</sub> on Lead Anodes: Structural and Electrochemical Insights  
M. Minakshi\*, R. Aughterson, P. Sharma, **A. P. Sunda**, K. Ariga, and L. K. Shrestha\*  
[CHEMNANOMAT](#), 2025, 11(10), e202500270. [IF - 2.6]

- 2025 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 ZnCl<sub>2</sub> 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  $\beta$ -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\*  
*CHEMPHYSCHEM* **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-NX<sub>3</sub> (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* Grant: **INR 2,00,000/-**  
 Awarded by: J. C. Bose University of Science and Technology, YMCA  
 Duration: July 2021 to March 2023 (2-Years)
- 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) Grant: **INR 35,00,000/-**  
 2nd Year Review Grading: **Very Good**
- 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) Grant: **INR 2,29,000/-**  
 Host Institute: Indian Institute of Science Education and Research (IISER), Pune

## RESEARCH GUIDANCE

2020-26 *J. C. Bose University of Science and Technology [PhD Supervision (Ongoing)]*

- **Sonia Yadav** (20001901005)  
*Biodegradable Ionic Liquid Electrolytes for Fuel Cell Application*
- **Parul** (22001901003)  
*Electrolytes for Anion Exchange Membrane Fuel Cell Application*
- **Rahul** (New Joining)  
*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 $\beta$ <sub>(1-42)</sub> Peptide Plaques using Molecular Dynamics Simulations*
- Kailash Mohar (2016IMSBCH015)  
*Atomistic simulations of SO<sub>2</sub> 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)  
*CO<sub>2</sub> 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 CO<sub>2</sub> 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 SO<sub>2</sub> Capture*
- Gaurav Panday (CU Haryana - 5174)  
*Molecular Investigation of Ion-Transport in Aqueous Imidazolium-based Ionic Liquid*
- Manjeet Kumar (CU Haryana - 5179)  
*CO<sub>2</sub> 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 SO<sub>2</sub> Capture*
- Ruchi Goyal (CU Haryana - 5582)  
*Molecular Dynamics Simulations of CO<sub>2</sub> 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, JC Bose 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.
- Sept - 2013 One Day Awareness workshop on Science Communication (organized by DST, New-Delhi), Visvaniketan's IMEET-Mumbai.
- Jan - 2013 7<sup>th</sup> 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 1<sup>st</sup> 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** - HSHCEC 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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