

Dr. Anurag Prakash Sunda

1. Name and full correspondence address:

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2. Educational Qualification:

B. Sc. (Chemistry)	: Passed with I div. (78.08%) University of Rajasthan, Jaipur	(2003 – 2006)
M. Sc. (Physical Chemistry)	: Passed with I div. (68.30%) Dept. of Chemistry, University of Rajasthan, Jaipur	(2006 – 2008)
M. Phil. (Energy)	: Passed with I div. (67.60%) Centre for Non-Conventional Energy Resources, University of Rajasthan, Jaipur	(2008 – 2009)
Ph. D. (Materials Chemistry)	: CGPA – 8.5 Indian Institute of Science Education and Research, Pune	(2010 – 2014)

3. Work experience (in chronological order).

Assistant Professor (INSPIRE Faculty) (06.07.2015 - Present)

Central University of Haryana, Mahendergarh

Assistant Professor (INSPIRE Faculty) (11.03.2015 - 03.07.2015)

Pandit Deendayal Upadhyay Shekhawati University, Sikar, Rajasthan

Post-Doctoral Research Associate (03.02.2014 - 10.03.2015)

Advisor: Prof. Balasubramanian Sundaram

Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore

Project Assistant (26.08.2009 - 16.12.2009)

Project Title: Host guest type PEM by pore intrusion.

Advisor: Dr. Ulhas K. Kharul

Polymer Science And Engineering Division, National Chemical Laboratory (NCL)-Pune

4. Awards and Fellowships:

- INSPIRE Faculty Award (Materials Science) (2015)
by DST-INSIA in July 2014 session under 'Assured Opportunity for Research Career (AORC)' scheme of Department of Science and Technology, New-Delhi.
- UGC-Junior/Senior Research Fellowship (2010–2014)
(CSIR-UGC NET Exam- Chemical Sciences: December-2009; Rank 314)
- Rajat Jayanti Science Communication Award (2011)
from National Council for Science and Technology Communication, Department of Science and Technology, New-Delhi.
- II prize for Poster presentation in Science Fest at IISER-Pune (2011)
- GATE Fellowship (GATE 2009–Chemical Sciences: 90.46 percentile score) (2009)

5. Projects (ongoing/completed):

- **INSPIRE Faculty Award – DST** (Ongoing) (2015)
Ab Initio Molecular Dynamics simulation of Ionic Liquid doped Polymer Electrolyte Membranes and Platinum Electrode Interface
No. DST/INSPIRE/04/2014/015731 **Rs. 35,00,000/-**
- **Rajat Jayanti Vigyan Sancharak Fellowship – NCSTC, DST** (Completed) (2011)
Molecular Modeling in Design and Development of Novel Materials for Renewable Energy
No. CO/S/TR/F09/2012 **Rs. 2,29,000/-**

6. Publications:

- **A. P. Sunda***; Ammonium-based protic ionic liquid doped Nafion membrane as anhydrous fuel cell electrolyte, *J. Mater. Chem. A*, **2015**, 3(24), 12905–12912. [Impact Factor - 7.44]
- **A. P. Sunda***, A. Mondal and S. Balasubramanian*; Atomistic simulations of ammonium-based protic ionic liquids: Steric effects on structure, low frequency vibrational modes and electrical conductivity, *Phys. Chem. Chem. Phys.*, **2015**, 17(6), 4625–4633. [Impact Factor - 4.49]
- **A. P. Sunda**, V. M. Dhavale, K. Sreekumar and A. Venkatnathan; Structure and dynamics of benzyl-NX₃ (X=Methyl, Ethyl) trifluoromethanesulfonate ionic liquids, *J. Phys. Chem. B*, **2014**, 118(7), 1831–1838. [Impact Factor - 3.30]
- M. More[†], **A. P. Sunda[†]**, and A. Venkatnathan; Polymer chain length, phosphoric acid doping and temperature dependence on structure and dynamics of ABPBI [poly(2,5-benzimidazole)] polymer electrolyte membrane, *RSC Adv.*, **2014**, 4(38), 19746–19755. [Impact Factor - 3.84]

*Corresponding Author

[†]Equal contribution

- **A. P. Sunda** and A. Venkatnathan; Molecular Dynamics simulations of side chain pendant of PFSA polymer electrolyte membranes, *J. Mater. Chem. A*, **2013**, 1(3), 557–569. [Impact Factor - 7.44]
- **A. P. Sunda**, M. More and A. Venkatnathan; A molecular investigation of structure and dynamics of the Phosphoric/Triflic acid blends of ABPBI (2,5-Benzimidazole) polymer electrolyte membrane, *Soft Matter*, **2013**, 9(4), 1122–1131. [Impact Factor - 4.03]
- **A. P. Sunda** and A. Venkatnathan; Parametric dependence on shear viscosity of SPC/E water from equilibrium and non-equilibrium molecular dynamics simulations, *Molecular Simulation*, **2013**, 39(9), 728–733. [Impact Factor - 1.13]
- **A. P. Sunda** and A. Venkatnathan; Atomistic simulations of structure and dynamics of hydrated Aciplex polymer electrolyte membrane, *Soft Matter*, **2012**, 8(42), 10827–10836. [Impact Factor - 4.03]
- **A. P. Sunda** and A. Venkatnathan; Molecular Dynamics simulations of triflic acid and triflate/water mixture: A potential electrolyte in fuel cells, *J. Comput. Chem.*, **2011**, 32(15), 3319–3328. [Journal Cover Page Article] [Impact Factor - 3.58]

7. Conferences/Seminars/Symposium

Invited Lectures:

- One Day Awareness workshop on Science Communication (organized by DST, New-Delhi), Visvaniketan's IMEET-Mumbai. (Sept.–2013)
- 7th *CRSI-RSC Symposium*, IIT BHU-Varanasi. (Jan.–2013)

Oral presentations:

- NFM-2014 (A National Conference), BITS-Pilani. (Nov.–2014)
- Chemical Constellation Cheminar-2012, NIT-Jalandhar. (Sept.–2012)
(An International Conference)
- 3rd Polymer Science Congress MACRO, IIT New-Delhi. (Dec.–2010)
(An International Conference)

Poster presentations:

- MD@50, An International Conference, JNCASR-Bengaluru. (Aug.–2014)
- Science festival, IISER-Pune. (Feb.–2011 & Feb.–2013)
- Theoretical Chemistry Symposium, IIT-Guwahati. (Dec.–2012)
- International Symposium on Material Education, Yashada-Pune. (Mar.–2011)
- RSC West India Ph.D. Symposium, University of Goa. (Sept.–2010)

Honorary work and workshops:

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

