

Dr. Palas Roy

Department of Chemistry, Indian Institute of Technology Bhubaneswar, Argul 752050, Odisha, India

Contact: +917477680691, palasroy@iitbbs.ac.in, palas.1989@gmail.com

RESEARCH EXPERIENCE

- 2023-Till date **Assistant Professor**, IIT Bhubaneswar (IITBBS), Odisha, India
Research Area: “*Photodynamics of Optoelectronic Molecules and Materials*”
- 2019-2023 **Senior Research Associate**, University of East Anglia (UEA), Norwich, UK
Project: “*Ultrafast Dynamics of Molecular Dimers and Photoswitches*”
Supervisor: Prof. Steve Meech, UEA, Norwich
- 2018-2019 **Postdoctoral Research Fellow**, Northwestern University (NU), Illinois, US
Project: “*Unraveling Vibronic Coupling driving Ultrafast Generation of Polarons*”
Supervisor: Prof. Elad Harel, NU, Illinois
- 2011-2017 **PhD Chemistry**, Tata Institute of Fundamental Research (TIFR), Mumbai, India
Dissertation: “*Probing the Fate of Excitons in Organic Semiconductors*”
Supervisor: Dr. Jyotishman Dasgupta, TIFR, Mumbai
Thesis External: Prof James Durrant, Imperial College, London

RESEARCH INTERESTS

Developing advanced time-resolved electronic and vibrational spectroscopy
Photodynamics of emerging materials for energy and photobiology
Novel ways to enhance efficiency of photomaterials

EDUCATION

- 2009-2011 **MSc Physical Chemistry**, Indian Institute of Technology- Kharagpur, India, CGPA 8.32
- 2006-2009 **BSc Chemistry (Honours)**, Physics and Mathematics, University of Kalyani, India
Marks 73%, University topper

GRANT WRITING EXPERIENCE

- 2025 **ANRF Grant** for Organizing International Conference on ‘*Advanced Materials for Energy, Environment & Sustainability 2025*’ (AMEES 2025) at IITBBS during 16-18th May, 2025; Value: INR 2.0 Lakhs
- 2025 **Prime Minister Early Career Research Grant by ANRF**; Project: ‘Resolving the Role of Environment in Thermally Activated Delayed Fluorescence’; Value: INR 71.94 Lakhs
- 2023 **Seed Grant by IITBBS**; Project: ‘Harvesting Singlet Fission-borne Triplets through Electron Transfer at the Acene:Perovskite Interface’; Value: INR 25.95 Lakhs
- 2016 **Travel Grant** by Royal Society of Chemistry (RSC) for attending international conference on Hybrid and Organic Photovoltaics-2016 (HOPV-16), Swansea, UK.

HONOURS & AWARDS

- 2026 Featured in "IUPAC–Solvay Award 25-Year Retrospective", published in Chemistry International (official magazine of the International Union of Pure and Applied Chemistry) <https://doi.org/10.1515/ci-2026-0306>
- 2025 Research artwork selected for Inside Back Cover, *Chemical Science Journal*.
- 2025-till date **Mentor**, Bureau of Indian Standards (BIS) Chemistry Student Chapter, IITBBS
- 2025 Invited *talk*, AOSC 2025, Goa, India.
- 2025 Invited *talk*, NSRP 2025, NISER Bhubaneswar, India.
- 2024 Invited *talk*, First Materials Chemistry Symposium2024, ICT-IOC Bhubaneswar, India.
- 2023 Invited *Hot-topic talk*, International Conference on Molecular Energy Transfer in Complex Systems, Jaipur, India.
- 2023 Invited *talk*, Kaleidoscope: A Discussion Meeting in Chemistry, Udaipur, India.
- 2023 Selected for *Oral presentation*, International conference on TRVS, The Netherlands.
- 2022 Selected for *Oral presentation*, International conference on ICORSXXVII, Rome.

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- 2021 *Special Merit in Research Award*, University of East Anglia, UK (<https://sites.google.com/view/2021researchersummit/special-merit-winners>).
- 2019 *Best PhD Thesis*, Department of Chemical Sciences (DCS), TIFR, India.
- 2018 *IUPAC-Solvay International Award for Young Chemists*, One of the five winners worldwide for my PhD thesis at TIFR, India (<https://iupac.org/winners-2018-iupac-solvay-international-award-young-chemists/>).
- 2016 *Best Poster Prize*, Annual Meeting of Department of Chemical Sciences (DCS), TIFR, India (judged by Prof. Martin Gruebele, University of Illinois-Urbana Champaign).
- 2016 Selected for *Oral presentation*, International conference on HOPV16, Swansea, UK.
- 2016 *Invited talk*, Recent Advances in Optical Sciences-II conference, University of Hyderabad, India.
- 2014 *1-year membership award* by Royal Society of Chemistry for winning TIFR-DCS logo contest.
- 2012 *Rank- JRF 57*, 'National Eligibility Test' Research Fellowship in Chemical Sciences, India.
- 2011 *Rank-9*, 'Graduate Aptitude test in Engineering' in Chemistry, India.
- 2009 *University Gold Medal, First class First* in BSc Chemistry (Hons), University of Kalyani, India.
- 2008 *Medal & Certificate of Merit In Memory of Prof. D.N. Roy*, University of Kalyani, India.
- 2008 *Medal & Certificate of Merit for Excellence in Chemistry Hons.*, University of Kalyani, India.
- 2008 *Medal & Certificate of Merit In Memory of Prof. Khagendra Chandra Karmakar*, University of Kalyani, India.

TEACHING EXPERIENCE

MSc Spring 2023-25	<i>Group Theory and Spectroscopy (CY5L008)</i>
MSc Autumn 2024-26	<i>Application of Fluorescence Spectroscopy (CY7L017)</i>
ITEP Autumn 2024	<i>Thermodynamics and Colligative Properties (CY2L301)</i>
ITEP Spring 2025-26	<i>Chemical Equilibrium & Electrochemistry (CY2L304)</i>
BTech Spring 2023-25	<i>Chemistry (Physical) (CY1L001, CY1L002)</i>
BTech Autumn 2023-24	<i>Chemistry Laboratory (CY1P001)</i>

PUBLICATIONS

(*Most significant publications; #equal contribution; @corresponding author)

After Joining IITBBS:

- *1. Sushree Suhani Puan, Laxmipriya Dash and **Palas Roy**@; "Hydrogen-Bonding Environment Suppresses Thermally Activated Delayed Fluorescence" *Chem. Sci.* 17, 187 (2026) DOI: 10.1039/D5SC05548B (Selected for **Journal Back-Cover Art**)
2. **Palas Roy**, Andy S. Sardjan, Wojciech Danowski, Wesley R. Browne, Ben. L. Feringa@ and Stephen R. Meech@; "Substituent effects on first generation photochemical molecular motors probed by femtosecond stimulated Raman" *J. Chem. Phys.* 161, 074504 (2024) DOI: 10.1063/5.0216442
- *3. **Palas Roy**, Andy S. Sardjan, Wesley R. Browne, Ben. L. Feringa@ and Stephen R. Meech@; "Excited State Dynamics in Unidirectional Photochemical Molecular Motors" *J. Am. Chem. Soc.* 146, 18, 12255 (2024) DOI: 10.1021/jacs.4c01019
- *4. **Palas Roy**, # Andy S. Sardjan, # Wojciech Danowski, Wesley R. Browne, Ben. L. Feringa@ and Stephen R. Meech@; "Control of Photoconversion Yield in Unidirectional Photomolecular Motors by Push-Pull Substituents" *J. Am. Chem. Soc.* 145, 36, 19849 (2023) DOI: 10.1021/jacs.3c06070 (#equal contribution)
- *5. **Palas Roy**, Wesley R. Browne, Ben. L. Feringa@ and Stephen R. Meech@; "Ultrafast Motion in a Third Generation Photomolecular Motor" *Nat. Commun.* 14, 1253 (2023) DOI: 10.1038/s41467-023-36777-6 (**Editors' Highlight**)

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6. Kiri Addison, **Palas Roy**, Giovanni Bressan, Karolina Skudaite, Josh Robb, Philip B. C. Page, Eleanor K. Ashworth, James N. Bull and Stephen R. Meech[@]; “Photophysics of the Red-form Kaede Chromophore” *Chemical Science*, 14, 3763 (2023) DOI: 10.1039/D3SC00368J

Before Joining IITBBS:

7. Pragya Verma, Mariusz Tasior, **Palas Roy**, Stephen R. Meech[@], Daniel T. Gryko, and Eric Vauthey[@]; “Excited-state Symmetry Breaking in Quadrupolar Pull-push-pull Molecules: Dicyanovinyl vs. Cyanophenyl Acceptors” *Phys. Chem. Chem. Phys.* (2023 Advance Article) DOI: 10.1039/D3CP02810K
- *8. **Palas Roy**, Faisal Al-Kahtani, Andrew N. Cammidge, and Stephen R. Meech[@]; “Solvent Tuning Excited State Structural Dynamics in a Novel Bianthryl”, *J. Phys. Chem. Lett.* 14, 253 (2023) DOI: 10.1021/acs.jpcllett.2c03469
9. **Palas Roy**, Gokul T. Anandan, Nagaraj Nayak, Anil Kumar, and Jyotishman Dasgupta[@]; “Raman Snapshots of Side-Chain Dependent Polaron Dynamics in PolyThiophene Films” *J. Phys. Chem. B* 127, 567 (2023). DOI: 10.1021/acs.jpcc.2c06185
10. Giovanni Bressan, Michael Jirasek, **Palas Roy**, Harry Anderson, Stephen R. Meech[@] and Ismael Heisler[@]; “Population and Coherence Dynamics in Large Conjugated Porphyrin Nanorings”, *Chem. Sci.* 13, 9624 (2022). DOI: 10.1039/D2SC01971J
- *11. **Palas Roy**, Andy S. Sardjan, Arjen Cnossen, Wesley R. Browne, Ben. L. Feringa[@] and Stephen R. Meech[@]; “Excited State Structure Correlates with Efficient Photoconversion in Unidirectional Motors” *J. Phys. Chem. Lett.* 12, 3367 (2021). DOI: 10.1021/acs.jpcllett.1c00710
- *12. **Palas Roy**, Giovanni Bressan, Jacob Gretton, Andrew N. Cammidge, and Stephen R. Meech[@]; “Ultrafast Excimer Formation and Solvent Controlled Symmetry Breaking Charge Separation in the Excitonically Coupled Subphthalocyanine Dimer” *Angew. Chem. Int. Ed.* 60, 10568 (2021). DOI: 10.1002/anie.202101572
13. **Palas Roy**, Andy S. Sardjan, Wojciech Danowski, Wesley R. Browne, Ben. L. Feringa[@] and Stephen R. Meech[@]; “Photophysics of First-Generation Photomolecular Motors: Resolving Roles of Temperature, Friction, and Medium Polarity” *J. Phys. Chem. A* 125, 1711 (2021). DOI: 10.1021/acs.jpca.0c11050
14. **Palas Roy**[@] “Hot-carriers in Organic Photovoltaics” *Pure Appl. Chem.* 93, 223 (2021). DOI: 10.1515/pac-2020-1001 (**Invited article**)
15. Dale Green, **Palas Roy**, Christopher R. Hall, James N. Iuliano, Garth A. Jones, Andras Lukacs, Peter J. Tonge and Stephen R. Meech[@]; “Excited State Resonance Raman of Flavin Mononucleotide: Comparison of Theory and Experiment” *J. Phys. Chem. A* 125, 6171 (2021). DOI: 10.1021/acs.jpca.1c04063
16. **Palas Roy**[@], and Jyotishman Dasgupta; “Temporal Probing of Excitons in Organic Semiconductors” *Pure Appl. Chem.* 92, 707 (2020). DOI:10.1515/pac-2018-1230 (**Invited article**)
17. Andy S. Sardjan, **Palas Roy**, Giovanni Bressan, Laura Comprido, Wesley R. Browne, Ben. L. Feringa[@] and Stephen R. Meech[@]; “Ultrafast Excited State Dynamics in a First Generation Photomolecular Motor” *ChemPhysChem* 21, 594 (2020). DOI: 10.1002/cphc.201901179 (Selected for **Journal Front-Cover Art**)
18. Shawn Irgen-Gioro, **Palas Roy**, Suyog Padgaonkar, and Elad Harel[@]; “Low Energy Excited State Vibrations Revealed in Conjugated Co-Polymer PCDTBT” *J. Chem. Phys.* 152, 044201 (2020). DOI:10.1063/1.5132299

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- *19. KC Krishnapriya[‡], **Palas Roy**[‡], Ulrike Salzner, Jyotishman Dasgupta[@] and Satish Patil[@]; “Spin Density Encodes Intramolecular Singlet Fission in Pentacene Dimers” *Nat. Commun.* 10, 1 (2019). DOI: 10.1038/s41467-018-07736-3 (**≠equal contribution**)
20. **Palas Roy**, Shreetama Karmakar, and Jyotishman Dasgupta[@]; “Femtosecond Stimulated Raman Spectroscopy” Book Chapter-9 in “Molecular and Laser Spectroscopy: Advances and Applications” by Prof. V. P. Gupta, *Elsevier* 193-215 (2018). DOI:10.1016/B978-0-12-849883-5.00009-7
- *21. **Palas Roy**, Ajay Jha, Vineeth B. Yasarapudi, Thulasi Ram, Boregowda Puttaraju, Satish Patil and Jyotishman Dasgupta[@]; “Ultrafast bridge planarization in donor- π -acceptor copolymers drives intramolecular charge transfer” *Nat. Commun.* 8, 1 (2017). DOI: 10.1038/s41467-017-01928-z
22. Melby Johny, K. Vijayalakshmi, Ankita Das, **Palas Roy**, Aseem Mishra and Jyotishman Dasgupta[@]; “Modulating Phe-Phe dipeptide aggregation landscape by covalent attachment of an Azobenzene photoswitch” *Chem. Commun.* 53, 9348 (2017). DOI: 10.1039/C7CC04106C
23. Tushita Mukhopadhyay, Boregowda Puttaraju, **Palas Roy**, Jyotishman Dasgupta, Andreas Meyer, Alexander Rudnick, Steffen Tscheuschner, Frank-Julian Kahle, Anna Köhler, and Satish Patil[@]; “Facile Synthesis and Chain-length Dependent Optical and Structural Properties of Diketopyrrolopyrrole-based Oligomers” *Chem. Eur. J.* 23, 13718 (2017). DOI: 10.1002/chem.201702131
- *24. **Palas Roy**, Ajay Jha, and Jyotishman Dasgupta[@]; “Photoinduced Charge Generation Rates in Soluble P3HT:PCBM Nano-aggregates Predict the Solvent-dependent Film Morphology” *Nanoscale* 8, 2768 (2016). DOI: 10.1039/C5NR06445G

Selected Manuscripts under preparation

1. **Palas Roy**, and Shubhendu Sekhar Patra; “Near-Infrared Harvesting Lanthanide-Polymer Nanocomposites: A Reprecipitation Methods for Their Preparation” Indian Patent under processing (2026)
2. Sushree Suhani Puan, Satyasmita Swain and **Palas Roy**[@]; “Deciphering the Singlet–Triplet Interplay in TADF Photocatalysis: From Reactive States to Reactive Landscapes” Review article under preparation. (2026)
3. **Palas Roy**, Srikant Kumar Sethi, Nita Ghosh, Tushita Mukhopadhyay, Boregowda Puttaraju, Satish Patil,[@] and Jyotishman Dasgupta[@]; “Singlet Exciton Fission in Diketopyrrolopyrrole Nanoparticles”.
4. Gokul T. Anandan, **Palas Roy**, Anil Kumar and Jyotishman Dasgupta[@]; “Stimulated Raman Captures Distinct Polaron Signatures of Pristine and Blended Polythiophenes:PCBM Film”

MENTORING EXPERIENCE

PhD: Sushree Suhani Puan (July2024-till date), Shubhendu Sekhar Patra (Dec2024-till date), Satyasmita Swain (Jul2025-till date)

MSc Project: Allisha Panigrahi (2025-26), Pushkar Suman (2025-26), Rittik Das (2024-25), Kaibalya Moharana (2024-25), Chandan Kumar (2023-24), Aniket Kapri (2023-24)

Intern Project: Hitanshu Kar (Summer 2024), Lingampalli Likhith (Summer 2024, Summer 2025), Rudranarayan Pradhan (Winter 2025)

MAJOR COLLABORATIONS

Project- Probing the fate of excitons in organic semiconductors

Collaborators: Dr. Satish Patil (IISC Bangalore, India); Dr. Anil Kumar (IIT-Bombay, India); Dr. Aseem Mishra (KIIT-Bhubaneswar, India); Prof. Ulrike Salzner (Bilkent University, Turkey); Dr. Andrew J. Musser (Cornell University, USA), Prof. Andrew N. Cammidge (University of East Anglia, UK)

Project- Ultrafast dynamics of unidirectional molecular motors

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Collaborators: Prof. Ben Feringa (Nobel Laureate 2016, University of Groningen, Netherlands); Prof. Wesley R. Browne (University of Groningen, Netherlands).

Project- *Structural dynamics of photoconvertible fluorescent proteins*

Collaborators: Prof. Peter Tonge (Stony Brook University, US), Prof. Michel Silwa (University of Lille, France) and Prof. Garth Jones (University of East Anglia, UK).

PROFESSIONAL ACTIVITIES

Administrative Responsibilities at IITBBS

1. Faculty Advisor

- ITEP Chemistry Students (October 2023 – Present)
- BTech CS Students (August 2023 – November 2024)

2. Faculty-in-Charge of Institute's High-end Instruments

- Raman Spectrometer under CRIF (January 2024 – Present)
- UV-Vis, Fluorescence Spectrometers, and Cryostat under Chemistry Department (May 2024 – Present)

3. Faculty-in-Charge of UG/PG Chemistry Laboratories, IIT Bhubaneswar (July 2025 – Present)

4. Faculty Coordinator

- Internship in School Teaching programme of ITEP Chemistry final year students (Jul-Sep 2026)
- Exposure Visits of School/College Students to UG/PG Chemistry Laboratories, IIT Bhubaneswar (December 2024 – Present)
- Teaching Assistant (TA) Duties of Research Scholars, Department of Chemistry, IIT Bhubaneswar (Autumn 2025 – Present)
- JAM Admissions (Chemistry), IIT Bhubaneswar (May-Aug, 2024)
- Preparing syllabus for ITEP in Chemistry (2023) and BTech in Chemical Technology (2024)
- School Exam Coordinator (School of Basic Sciences) for Spring end-semester 2023
- G20-Open Day Exhibition at IITBBS (2023)
- Liaison Officer for Hon'ble MP Shri Biplab Kumar Deb during IIT Council Meeting 2023

5. Convenor

- One-day Event on World Standards Day 2025, IIT Bhubaneswar (Participants-nearly 600) (11th October 2025)
- International Conference on Advanced Materials for Energy, Environment & Sustainability 2025 (AMEES-2025), IIT Bhubaneswar (Participants-nearly 120) (16–18th May 2025)

6. Organizing Committee Member, 12th, 13th & 14th Convocation, IIT Bhubaneswar

7. Institute Representative (IR) (May 2024) and Question Vetting (10-20th Dec 2023), JEE (Advanced) 2024

8. Faculty Trainer for improving presentation skill of final year PhD students at IITBBS (2023)

Other Responsibilities

I. **Doctoral Advisory Committee (DAC) Member** for three PhD scholars, National Institute of Science Education and Research (NISER), Bhubaneswar (2024 – Present)

II. **Mentor**, Chemistry Student Chapter under the Bureau Of Indian Standards (BIS), IIT Bhubaneswar (2025 – Present)

- Organized National Level Quiz: BIS Chemistry Quiz (15th Feb, 2026)
- Organized Student Industry Visit: Jindal Steel and Power Ltd, Angul (28th March, 2026)

III. **Reviewer** for international journals and funding agencies:

- Journal of Physical Chemistry (ACS) –2023 (Mar, May, Aug), 2024 (January)

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- *Journal of Chemical Physics (AIP)* – April 2025
- *ACS Applied Energy Materials (ACS)* – June & August 2025
- *The Leverhulme Trust (UK)* – Research Grant Proposal (2024)

IV. **Invited Speaker** for national and international meetings:

- *The 9th Asian and Oceanian Spectroscopy Conference (AOSC-2025)*, Goa, India (21–25th September 2025)
- *16th National Symposium on Radiation and Photochemistry (NSRP-2025)*, NISER Bhubaneswar, India (23–25th January 2025)
- *First Materials Chemistry Symposium 2024, ICT-IOC Bhubaneswar, India* (19th January 2024)
- *JNV Science Teachers' Training Programme, IIT Bhubaneswar* (December, 2024 & 2025)

V. **Question Setter** (2024) and **Question Moderator** (2025), Odisha Staff Selection Commission (OSSC) Examination

VI. **Guidance Talk in Chemistry** for Class X students, Kendriya Vidyalaya (KV), IIT Bhubaneswar (12th August 2025)

VII. **Honourable Judge**, School-level Bal Vaigyanik Science Exhibition, Kendriya Vidyalaya, IIT Bhubaneswar (20th November 2025)

VIII. **National Organizing Committee Member**, International Conference on Raman Spectroscopy (ICORS-2028), Indian Association for the Cultivation of Science (IACS), Kolkata (2025 – 2028)

IX. **Student Volunteer** for demonstrating science experiments using femtosecond laser to school students at the annual science outreach programme 'Frontiers of Sciences' at TIFR-Mumbai (2013-2017) and for organizing the international conference on 'Optics within Life sciences 2016' at TIFR

SELECTED CONFERENCES AND SEMINARS

2025 AOSC-2025 International Conference, Goa, India; Invited talk "*Hydrogen-Bonding Environment Suppresses Thermally Activated Delayed Fluorescence*"

2025 NSRP-2025 Symposium, NISER Bhubaneswar, India; Invited talk "*Resolving the role of solvent polarity, viscosity and hydrogen-bonding in thermally activated delayed fluorescence*"

2024 First Materials Chemistry Symposium 2024, ICT-IOC Bhubaneswar, India; Invited talk "*Controlling Unidirectional Motor Performance through Push-Pull Substituents*"

2023 International Conference on Molecular Energy Transfer in Complex Systems, Jaipur, India; Invited Hot-topic talk "*Controlling Unidirectional Motor Performance through Push-Pull Substituents*".

2023 Kaleidoscope: A Discussion Meeting in Chemistry, Udaipur, India; Invited talk "*Can Ultrafast Science Help Optimise Unidirectional Motor Performance?*"

2023 International Conference on Time-resolved Vibrational Spectroscopy, The Netherlands; Online participation.

2022 Chemistry Research Day, UEA; Oral presentation "*Ultrafast Charge Separation in Covalently Linked Anthracene Dimer*".

2021 Chemistry Research Day, UEA; Oral presentation "*Ultrafast Raman Snapshot of Unidirectional Motors in Motion*".

2021 Chemistry Seminar Series, UEA; Oral presentation "*Ultrafast photophysics of molecular dimers*".

2020 Chemistry Research Day, UEA; Oral presentation "*Excited state structural correlation for efficient photoconversion in artificial motors*".

2019 IUPAC World Chemistry Congress, Paris; Posters presentation "*Probing the Fate of Exciton in Organic Semiconductors*".

2016 TIFR-DCS annual talks, India; Posters presentations "*Ultrafast Exciton and Charge Dynamics in Organic Semiconductors*" and "*Tracking Singlet Fission in Semiconducting Organic Nanoparticles*".

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2016 International Conference on Hybrid and Organic Photovoltaics-2016, Swansea, UK; Oral presentation "*Tracking Exciton Dynamics in Low-Bandgap Conjugated Polymers using Femtosecond Stimulated Raman Spectroscopy*".

2016 National Conference on Recent Advances in Optical Sciences-II, Hyderabad, India; Oral presentation "*Photoinduced Charge Generation Rates in Soluble P3HT:PCBM Nano-aggregates Predict the Solvent Dependent Film Morphology*".

2016 International Conference on Optics Within Life Sciences, TIFR/IITB, India

2016 National Workshop on Fluorescence and Raman Techniques, TIFR, India

2016 Modern Trends in Electron Transfer Chemistry: From Molecular Electronics to Devices, ICTS, Bangalore, India; Poster presentation "*Tracking Exciton Dynamics in Low Band-gap Conjugated Polymers using Femtosecond Stimulated Raman Spectroscopy*".

2014 Advances in Spectroscopy and Ultrafast Dynamics-2014 symposium, IACS, Kolkata, India; Poster presentation "*Capturing Photoinduced Charge Transfer States of P3HT:PCBM Mixtures in Solution*".

2013 FCS Satellite Confocal Workshop-2013, IISC-Bangalore, India

2012 Workshop at 23rd International Conference on Raman Spectroscopy, IISC-Bangalore, India