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Nationality: Indian
Gender: Male
Language: Hindi, English

Dr. Dharmendar Kumar Sharma, PhD

Experimental physical chemist specialized in microscopy and LASER spectroscopy to investigate structural and charge transport properties of polymer thin films and photophysics of organic/inorganic semiconductors for applications in QD-LED displays and biological imaging.

Academic Appointments

Dec. 2023- Present	Assistant Professor (G-I) of Chemistry, MANIT Bhopal (M.P.)
Feb. 2019- Dec. 2023	Assistant Professor (G-II) of Chemistry, MANIT Bhopal (M.P.)
Feb. 2015- Oct. 2018	Postdoctoral Researcher at Tokyo Institute of Technology, Japan
May 2014- Nov 2014	Research Associate, IIT Bombay, Mumbai, India

Education Qualification

2009-2014	Doctor of Philosophy, Physical Chemistry <i>Indian Institute of Technology Bombay, Mumbai</i>
2006-2008	Master of Science, Chemistry <i>Department of Chemistry, University of Rajasthan, Jaipur</i>
2003-2006	Bachelor of Science <i>Maharaja's college, University of Rajasthan, Jaipur</i>

Awards and Fellowships

1. The Royal Society of Chemistry Poster Prize, 2014
Asian Photochemistry Conference 2014 (APC-2014), Kerala, India.
2. Wi-Tech Best Poster Award 2012
National Fluorescence Workshop: Fluorescence Methods in Single Molecule Spectroscopy (FCS-2012) Kolkata, India.
3. Travel Grant/Financial Assistantship by Science and Engineering Research Board (SERB) for participation in Federation of Analytical Chemistry & Spectroscopy, Milwaukee, USA
4. ISRAPS-2010 Best Poster Award, 2010
Trombay Symposium on Radiation and Photochemistry 2010, Lonavala, Mumbai, India
5. Awarded Senior Research Fellowship (SRF) 2011-2014 and Junior Research Fellowship (JRF) 2009-2011 from Council of Scientific and Industrial Research (CSIR), New Delhi, for pursuing a doctoral degree.
6. 'Rajya-Puraskar', by Governor of Rajasthan *Bharat Scout & Guide*, 2001

Expert/Committee member/Administration (outreach activity)

- (1). Expert Board of Studies, St. Aloysius Collage (Autonomous) Jabalpur (M.P.)
- (2). Expert for Faculty Development Program, Efficacy and Futuristic Approaches of Digital Pedagogy in the WAKE of Covid-19, Indore Institute of Science and Technology, Indore
- (3). Contributor (advisory role) BYJUS online learning.
- (4). Subject Expert- University Institute of Technology, Shivpuri (M.P.)

Scientific Society Memberships and Reviewing Activity

- (1). Member Royal Society of Chemistry (MRSC-639603)
- (2). Life Member of Indian Society for Radiation and Photochemical Sciences (ISRAPS)
- (3). American Chemical Society community membership (31382816)
- (4). Regular Member of Japanese Photochemistry Association (JPA)
- (5). Reviewer for 'JPCL' (ACS), 'Nanoscale' (Royal Society of Chemistry) and 'Journal of Photonic Materials and Technology' (Science Publication Group)

Academic Trainings:

1. Training for "Outcome Based Education (OBE)", NITTTR, Bhopal (M.P.), 9-20 Dec. 2019
2. In-house Training for "Public Procurement, e-procurement, e-marketplace (GeM), 18-19 June, 2020
3. Training for Technical scientific writing American Chemical Society (ACS) scientific writing training at Tokyo Institute of Technology Japan. March, 2016

Teaching & Consultant

UG Courses	PG Courses	PhD Course Work
<u>At MANIT Bhopal</u> CY 1107/1207 Engineering Chemistry CY 1110/1210 Environmental Sciences CY 1126/1226 Engineering Chemistry Lab <u>At IIT Bombay</u> CH 117 Physical chemistry lab CH 103 Chemical Bonding and Molecular Spectroscopy (Teaching Assistant & Tutorial)	<u>At MANIT Bhopal</u> CY MS 511/ CHY 511 Physical Chemistry I (Quantum Chemistry & Basic Spectroscopy) CY MS 515/ CHY 515 Physical Chemistry Lab CY MS 533 Instrumental Methods of Analysis CY MS 524 / CHY 24524 Chemistry of Materials CY MS 525 / CHY 24525 Physical Chemistry Lab II CY MS 654/ CHY 24654 Photophysical Chemistry CY MS 615/ CHY 24615 Physical Chemistry Lab III CHY 521 Chemical Kinetics & Thermodynamics CHY 532 Chemical Biology CHY 654 Modern Optical Techniques CY MS 552 / CHY 657 Optical Imaging and Ultrafast Spectroscopy	<u>At MANIT Bhopal</u> CHY 811 Advanced Analytical Chemistry CHY 815 Advanced Physical Chemistry CHY 811 Scientific Practices In Research CHY 815 Advanced Optical Spectroscopy and Microscopy <u>At TIT Tokyo, Japan</u> (1). Atomic Force Microscopy and LASER Spectroscopy (2). Nanomaterials Synthesis (3). Single Molecule Spectroscopy

Administrative Responsibilities at MANIT Bhopal

S. No	Institute Level Activity
1.	Member Central Library Advisory Committee (2024-Continue)
2.	Innovation Ambassador/Expert & Coordinator, YUKTI National Innovation Repository(2023-
3.	Member, Institute Innovation Council (IIC) and NISP Council Member(2023-24)
4.	Assistant Proctor & Member Anti-Ranging Committee (2019-2024)
5.	Member Technical Specification Committee, Central Research Facility (CRF) (2019-Continue)
6.	Committee member for Process, Open & finalize the Tender, Site Preparation & Purchase of the Equipment's (2021-Continue)
S. No.	Departmental Activity
1.	Coordinator PG Academic Programme (2022-Continue)
2.	Member Board of Academic Studies UG & PG Committee (2019-Continue).
3.	UG Engineering Chemistry Exam Coordinator (2019-Continue).
4.	Coordinator PG-Physical Chemistry and Lab-In charge. (2021-Continue)
5.	Department Library Coordinator (DLC) (2019-2023)
6.	PG Academic Program Committee Member (2021-2023)
7.	Lab In charge UG-Analytical Laboratory (2019-2022)
8.	Coordinator website up-gradation (2020-2023)
9.	Faculty Coordinator for UG-online classes (2020-21)
10.	PG-Laboratory Equipment Purchase Coordinator (2020-Continue)
11.	PG-Course & Time table in-charge (2022-Continue)

Research Supervision & Mentoring

1. PhD **03** ongoing, MANIT Bhopal, M.Sc. Chemistry Thesis -**08** Completed **02** ongoing.
2. Mentored **03** master's students in different projects based on single molecule imaging as well as ensemble spectroscopy techniques. IIT Bombay
3. Supported **02** summer trainees for developing MATLAB code for autocorrelation analysis of polarization time series and fitting defocused image patterns. IIT Bombay
4. Mentored **01** MS student at TIT Tokyo under International Exchange Program.

Research Projects Undertaken as Principle Investigator (PI)

Research Projects (Externally Funded):

1. Development of Lead-Free Perovskite Halide Materials and In-Situ Photophysical Characterization for Quantum Dot based Display Applications, **SERB/SRG Govt. of India (29.38 Lakhs, 2021-completed)**.
2. *Exploring morphological effects on the Photophysical properties of Lead-Free Halide Perovskite Nanocrystals, UGC-DAE-CSR (5.37+ Lakhs/year, 2022-ongoing)*.

Research Projects (Institute Funded):

1. Rational development of non-toxic perovskite materials for optoelectronic applications, **(5.00 Lakhs, 2019-2021, Completed)**
2. Development of Home-built Spectrally Resolved Microscope **(30+ Lakhs, 2022-completed)**.

Research Projects completed as trainee

Post Ph.D.

1. Synthesis and characterization of inorganic lead halide perovskite nanocrystals and explore their **photoluminescence and electroluminescence** properties at the single particle level. **LASER Spectroscopy & LED device fabrication.**
2. Investigation of 'structural/conformational and photophysical/spectroscopic relationship'

of **conjugated/conducting polymers** at single molecule level using simultaneous confocal and atomic force microscopy (AFM).

3. Spectral broadening, **spectral diffusion and modulation of blinking** in multinary nanocrystals (I-III-VI semiconductors) by using single-particle spectroscopy.
4. **Temperature-dependent steady state and time resolved spectroscopic measurements** of colloidal $(\text{AgIn})_x\text{Zn}_{2(1-x)}\text{S}_2$ nanocrystals to understand the impact of Zn alloying on the photoluminescence to determine quantum yield of multinary materials. (2015-2016)

Ph.D.

5. Development of a high throughput **spectrally resolved optical microscope** (SROM) technique to obtain spatially resolved absorption spectra at sub-micrometer levels *invitro* and *ex-vivo*.
6. Investigation of solvent (water, methanol and its mixtures) **induced morphological changes in polymers/ionomers** (Nafion) thin films by using single molecule (SM) rotational and translational diffusion dynamics of tracer molecules.
7. Monitoring effect of charge on **diffusion dynamics of tracer molecules** in Nafion using fluorescence correlation spectroscopy.
8. **Energy mapped imaging** and fluorescence spectroscopy at single particle level to probe the co-localization of dye molecules within individual polymersomes (20-50 nm) and blinking suppression in CdSe/ZnS nanocrystals (<5 nm).

Techniques/ Methodologies

- (1). Developed multipurpose high-throughput free space LASER based fluorescence microscope capable of single molecule detection, **polarization imaging and spectroscopy**. Experienced in **FCS and confocal microscopy**. **Dark-field and TIRF microscopy**. Combined the multi-modal SM spectral imaging setup to the AFM to obtain real space structural image and fluorescence spectroscopy simultaneously.
- (2). Operational knowledge of **TEM, SEM, EDX, XRD, IR and NMR**.
- (3). Steady-state absorption and fluorescence spectroscopy, absolute quantum yield and time resolved photoluminescence measurements using **TCSPC**, both in solution and in the solid state.
- (4). Computer skills: **MATLAB programming for image processing**, SM tracking and calculations. The software's known: Origin, ImageJ, Endnote, ChemDraw, Chem3D, Adobe Illustrator, MS Office.

Publication List

1. Anusha, A.; Yadav, A.; Vishnoi, P.; **Sharma, D. K.***; Mixed Metal Halide Perovskite $\text{CsPb}_{1-x}\text{Sn}_x\text{Br}_3$ Quantum Dots: Insight into Photophysics from Photoblinking Studies, *Nanoscale*, **2025**, *17*, 5150–5160. DOI: [10.1039/d4nr04879b](https://doi.org/10.1039/d4nr04879b)
2. श्रेष्ठ हिंदी लोकप्रिय लेख (*Popular Article*) पुरस्कार: 'नैनो-पदार्थ की दुनिया: छोटे आकार, बड़ी संभावनाएँ' डॉ. धर्मेन्द्र कुमार शर्मा, अनुशा ए, *The Science World*, 2024, खंड 4(1), पृष्ठ 321-325
3. Demirkurt, B.; Petrova, D.; **Sharma, D. K.**; Vacha, M.; Weber, B.; Bonn, D.; Brouwer, A., Resolving Multi-Asperity Contacts at the Nanoscale through Super-Resolution Fluorescence Imaging, *J. Phys. Chem. Lett.*, **2024**, *15*(7), 1936-1942, DOI: [10.1021/acs.jpcllett.3c02799](https://doi.org/10.1021/acs.jpcllett.3c02799)
4. Mahato, J.; Bhattacharya, S.; **Sharma, D. K.**; Chowdhury, A. Polarization-resolved single molecule tracking reveals strange dynamics of individual fluorescent tracers through a deep rubbery polymer network *Phys. Chem. Chem. Phys.*, **2021**, *23*(18), 10835 DOI: [10.1039/D0CP05864E](https://doi.org/10.1039/D0CP05864E)
5. **Sharma, D. K.***; Hirata, S.; Vacha, M. Energy localization vs. Charge Funneling in Aggregates of CsPbBr_3 perovskite Nanocrystals *J. Luminescence*, **2020**, *222*, 117119 DOI: [10.1016/j.jlumin.2020.117119](https://doi.org/10.1016/j.jlumin.2020.117119)

6. Petrova, D.; **Sharma, D.K.**; Vacha, M.; Bonn, D.; Brouwer, A. M.; Weber, B., Ageing of polymer frictional interfaces: the role of quantity and quality of contact, *ACS Appl. Mater. Interfaces*, **2020**, 12(8), 9890-9895, DOI:10.1021/acsami.9b19125.
7. Mahato, J.; Bhattacharya, S.; **Sharma, D. K.**; Chowdhury, A. Polarization-resolved single molecule tracking reveals strange dynamics of individual fluoroscent tracers through a plasticized (rubbery) polymer network *ChemRxiv*, **2020** DOI: 10.26434/chemrxiv.13118075.v1
8. Umematsu, T.; Wajima, K.; Hoisang, W.; **Sharma, D. K.**; Hirata, S.; Kameyama, T.; Vacha, M.; Torimoto, T.; Kuwabata, S.; Narrow band Photoluminescence from cadmium free I- III-VI Ternary Semiconductor Quantum Dots By Surface Modification *ECS Meeting Abstract MA* **2020**, 2, 2727 DOI: 10.1149/MA2020-0242727mtgabs.
9. **Sharma, D. K.*** Hirata, S.; Vacha, M. Single-particle electroluminescence of CsPbBr₃ perovskite nanocrystals reveals particle-selective recombination and blinking as key efficiency factors *Nature Communications*, **2019** 10, 4099 DOI: 10.1038/s41467-019-12512-y.
10. **Sharma, D. K.***; Hirata, S.; Vacha, M. Stark-effect and Environment Induced Modulation of Emission in Single Halide Perovskite Nanocrystals. *ACS Nano*, **2019** 13, 624-632 DOI: 10.1021/acs.nano.8b07677
11. Kameyama, T.; Kishi, M.; Miyamae, C.; **Sharma, D. K.**; Hirata, S.; Yamamoto, T.; Uematsu, T.; Vacha, M.; Kuwabata, S.; Torimoto, T. Wavelength-Tunable Band-Edge Photoluminescence of Nonstoichiometric Ag-In-S Nanoparticles via Ga³⁺ Doping. *ACS Appl. Mater. Interfaces*, **2018** 10, 42844-42855 DOI: 10.1021/acsami.8b15222
12. Hatazaki, S.; **Sharma, D. K.**; Hirata, S.; Vacha, M. Identification of Short- and Long- Wavelength Emitting Chlorophylls in Cyanobacterial Photosystem I by Plasmon- Enhanced Single-Particle Spectroscopy at Room Temperature. *J. Phys. Chem. Lett.* **2018**, 9(22), 6669-6675 DOI:10.1021/acs.jpcclett.8b03064
13. Vacha, M.; **Sharma, D. K.** Photophysics and electroluminescence of single nanocrystals of halide perovskites and related nanomaterials. *EPJ Web Conf.* **2018**, 190, 02012 DOI: 10.1051/epjconf/201819002012
14. Uematsu, T.; Wajima, K.; **Sharma, D. K.**; Hirata, S.; Yamamoto, T.; Kameyama, T.; Vacha, M.; Torimoto, T.; Kuwabata, S. Narrow Band-Edge Photoluminescence from AgInS₂ Semiconductor Nanoparticles by the Formation of Amorphous III-VI Semiconductor Shells. *NPG Asia Mater.* **2018**, 10, 713-726 DOI: 10.1038/s41427-018-0067-9
15. Nakamura, T.; **Sharma, D. K.**; Hirata, S.; Vacha, M. Intra-Chain Aggregates as the Origin of Green Emission in Polyfluorene Studied on Ensemble and Single Chain Level. *J. Phys. Chem. C* **2018**, 122, 8137-8146 DOI: 10.1021/acs.jpcc.8b01767
16. Suresh, K.; **Sharma, D.K.**; Chulliyil, R.; Sarode, K.; Kumar, V.; Chowdhury, A.; Kumaraswamy, G. Single particle tracking to probe the local environment in ice- templated crosslinked colloidal assemblies. *Langmuir*, **2018**, 34, 4603-4613, DOI:10.1021/acs.langmuir.7b04120
17. Vacha, M.; **Sharma, D. K.**; Hirata, S. Single-molecule studies beyond optical imaging: Multi-parameter single-molecule spectroscopy, *J. Photochem, Photobiology. C Reviews, J. Photo. Chem. Photobiol. Rev. C*, **2017**, 34, 121-136 DOI: 10.1016/jphotochemrev.2017.11.003
18. Bujak, L.; Narushima, K.; **Sharma, D. K.**; Hirata, S; Vacha, M. Plasmon Enhancement of Triplet Exciton Diffusion Revealed by Nanoscale Imaging of Photochemical Fluorescence Upconversion *J. Phys. Chem. C*, **2017**, 121, 25479–25486. DOI: 10.1021/acs.jpcc.7b08495
19. Bujak, L.; Ishii, T.; **Sharma, D. K.**; Hirata, S; Vacha, M. Selective turn-on and modulation of resonant energy transfer in single plasmonic hybrid nanostructures *Nanoscale*, **2017**, 9, 1511–1519. DOI: 10.1039/C6NR08740J
20. **Sharma, D. K.***; Hirata, S.; Bujak, L.; Biju, V.; Kameyama, T.; Kishi, M.; Torimoto, T.; Vacha, M. Influence of Zn on the Photoluminescence of Colloidal (AgIn)_xZn₂(1-x)S₂ Nanocrystals *Phys. Chem. Chem. Phys.*,

- 2017, 19, 3963–3969. DOI: [10.1039/C6CP07550A](https://doi.org/10.1039/C6CP07550A)
21. **Sharma, D. K.**; Irfanullah, M.; Basu, S. K.; Madhu, S.; De, S.; Jadhav, S.; Ravikanth, M.; Chowdhury, A. An approach to estimate spatial distribution of analyte within cells using spectrally-resolved fluorescence microscopy, *Methods Appl. Fluoresc.*, **2017**, 5, 014003–014013. DOI: [10.1088/2050-6120/5/1/014003](https://doi.org/10.1088/2050-6120/5/1/014003)
 22. Bhattacharya, S.; **Sharma, D. K.**; S.; De, S.; Mahato, J.; Chowdhury, A. Heterogeneity during Plasticization of Poly(vinylpyrrolidone): Insights from Reorientational Mobility of Single Fluorescent Probes, *J. Phys. Chem. B*, **2016**, 120, 12404–12415. DOI: [10.1021/acs.jpcc.6b08584](https://doi.org/10.1021/acs.jpcc.6b08584)
 23. Irfanullah, M.; **Sharma, D. K.**; Chulliyil., R; Layek, A.; De, S.; Chowdhury, A. Heterogeneity in optical properties of near white-light emissive europium complex species revealed by spectroscopy of single nanoaggregates, *Chem. Phys. Lett.*, **2016**, 667, 247–253. DOI: [10.1016/j.cplett.2016.10.065](https://doi.org/10.1016/j.cplett.2016.10.065)
 24. Pandey, B.; Mahato, J.; Cotta, K. B.; Das, S.; **Sharma, D. K.**; Gupta, S. S.; Chowdhury, A. Glycopeptide-Grafted Bioactive Polyionic Complex Vesicles (PICsomes) and Their Specific Polyvalent Interactions, *ACS Omega*, **2016**, 1, 600–612. DOI: [10.1021/acsomega.6b00142](https://doi.org/10.1021/acsomega.6b00142)
 25. **Sharma, D. K.***; Hirata, S.; Bujak, L.; Biju, V.; Kameyama, T.; Kishi, M.; Torimoto, T.; Vacha, M. Single-particle spectroscopy of I–III–VI semiconductor nanocrystals: spectral diffusion and suppression of blinking by two-color excitation, *Nanoscale*, **2016**, 8, 13687–13694. DOI: [10.1039/C6NR03950B](https://doi.org/10.1039/C6NR03950B)
 26. Sonawane, K. G.; Agarwal, K. S.; Phadnis, C.; **Sharma, D. K.**; Layek, A.; Chowdhury, A.; Mahamuni, S. Manifestations of Varying Grading Level in CdSe/ZnS Core-Shell Nanocrystals, *J. Phys. Chem. C*, **2016**, 120, 5257–5264. DOI: [10.1021/acs.jpcc.6b01247](https://doi.org/10.1021/acs.jpcc.6b01247)
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 29. Das, S.[#]; **Sharma, D. K.[#]**; Chakrabarty, S.; Chowdhury, A.; Gupta, S. S. Bioactive Polymersomes Self-Assembled from Amphiphilic PPO-GlycoPolypeptides: Synthesis, Characterization, and Dual-Dye Encapsulation, *Langmuir*, **2015**, 31, 3402–3412. DOI: [10.1021/la503993e](https://doi.org/10.1021/la503993e)
 30. Irfanullah, M.; **Sharma, D. K.**; Chulliyil., R; Chowdhury, A. Europium doped LaF₃ nanocrystals with organic 9-oxidophenalenone capping ligands that display visible light excitable steady-state blue and time-delayed red emission, *Dalton Trans.*, **2015**, 44, 3082–3091. DOI: [10.1039/c4dt03249g](https://doi.org/10.1039/c4dt03249g)
 31. **Sharma, D. K.***, Chowdhury, A. Spectrally resolved optical microscopy using a transmission grating spectrograph: importance of spatial selection, *Analyst*, **2014**, 139, 473–481. DOI: [10.1039/c3an01432k](https://doi.org/10.1039/c3an01432k)
 32. Madhu, S.; **Sharma, D. K.**; Basu, S. K.; Jadhav, S.; Chowdhury, A.; Ravikanth, M. Sensing Hg(II) *in vitro* and *in vivo* using a benzimidazole substituted BODIPY, *Inorg. Chem.*, **2013**, 52, 11136–11145. DOI: [10.1021/ic401365x](https://doi.org/10.1021/ic401365x)
 33. Bhattacharya, S.; **Sharma, D. K.**; Saurabh, S.; De, S.; Sain, A.; Nandi, A.; Chowdhury, A. Plasticization of poly(vinylpyrrolidone) thin films under ambient humidity: Insight from single-molecule tracer diffusion dynamics, *J. Phys. Chem. B*, **2013**, 117, 25, 7771–7782. DOI: [10.1021/jp401704e](https://doi.org/10.1021/jp401704e)

***Communicating Author, #Equal Contributor**

Conferences, Workshops & Faculty Development Programme (last 10 years)

- (1). Invited talk (short), The 9th Asian and Oceanian Spectroscopy Conference [AOSC-2025], Bogmallo Beach Resort, Goa, INDIA, 21–25 Sept. 2025
- (2). Laboratory visit on Science Day 28th Feb. 2025 by Training and Research Centre Kolar (Bhopal) students

and faculty

- (3). Laboratory session (Day 4) in IIMSE 2025: Integrating Microscopy and Spectroscopy
- (4). Invited Talk AICTE ATAL-sponsored One-Week Offline Faculty Development Programme (FDP) on "Emerging Trends and Challenges in Next Generation Semiconductor Technologies" Prestige Institute of Management and Research, Bhopal, 30 September to 05 October 2024
- (5). Interactive Colloquium "Shedding Light: LASER Spectroscopy at the Interface of Materials Science and Biology" Mansarovar Globel University, Dental College, Bhopal 10 Sept. 2024
- (6). Invited Talk "Frontiers in Chemistry" CRSI Local Chapter one day conference, Department of Chemistry, IISER Bhopal, 4th May 2024
- (7). Organized (convener and coordinator) "One day Nanomaterials Innovation Workshop" under SSR, SERB, Dec. 8, 2023
- (8). वैज्ञानिक तथा तकनीकी शब्दावली आयोग, शिक्षा मंत्रालय, नई दिल्ली द्वारा आयोजित "नई शिक्षा नीति एवं भारतीय भाषाओं में विज्ञान शिक्षण" विषयक संगोष्ठी में व्याख्यानदाता (Resource Person) के रूप में भागीदारी, दिनांक 1 सितम्बर 2023 से 2 सितम्बर 2023 तक, MRSC इंदौर।
- (9). Organizing coordinator "Advanced Methods of Material Characterization and Surface Analysis" (AMCSA 2021), Feb. 27- Mar. 3, 2021
- (10). Invited speaker for a FDP (online) by IIST Indore, India, Efficacy & Futuristic Approaches of Digital Pedagogy in the wake of Covid-19, 18-20 May, 2020 (**Talk**)
- (11). Two-weeks Training Programme on Outcome-Based Education (CP-10), NITTTR Bhopal, 9-20th Dec. 2019, (**Talk**)
- (12). Photoluminescence of $(\text{AgIn})_x\text{Zn}_{2(1-x)}\text{S}_2$ solid solutions: Impact of Zn alloying and origin of spectral broadening IIT Bombay, Mumbai, 30th Nov. 2018, (**Talk**)
- (13). 'Annual Meeting on Photochemistry 2018' Kwansei Gakuin University Hyogo, Japan Sept., 2018, (**Talk**) International
- (14). Methods and Applications in Fluorescence (MAF2017), Bruges, Belgium, Sept., 2017, (**Talk**) International
- (15). 'International Workshop on Single Molecule (SM) Spectroscopy and Super-Resolution Microscopy in the Life Science, PicoQuant Berlin, Germany Sept., 2017, (**Poster**) International
- (16). 'Annual Meeting on Photochemistry 2017' Tohoku University Sendai, Japan Sept., 2017, (**Poster**) International
- (17). 'Annual Meeting on Photochemistry 2016', Komaba I Campus, The University of Tokyo, Japan. Sept., 2016 (**Talk**) International
- (18). 'Photosynergistics 2016' Toyonaka Campus, Osaka University, Japan. June, 2016 (**Poster**) International
- (19). 'Annual Photochemistry Meeting 2015' Sugimoto Campus, Osaka City University, Japan. Sept., 2015 (**Poster**) International
- (20). 'Asian Photochemistry Conference 2014 (APC-2014)', Trivandrum, Kerala, India. Nov. 2014 (**Best Poster Award**) International
- (21). '16th National Symposium in Chemistry (NSC-16)', IIT Bombay. February 7-9 2014 (**Poster**), National
- (22). 'In-house Symposium' (IHS-13), Department of Chemistry, IIT Bombay, India. March, 2013 (**Talk**) Institute-level
- (23). FCS 2012- National Fluorescence Workshop: Fluorescence Methods in Single Molecule Spectroscopy, Kolkata, India. Dec., 2012 (**Best Poster Prize**) National
- (24). IIT Bombay-American Chemical Society Symposium 2012, IIT Bombay, India. Oct., 2012 (**Poster**) Institute-level
- (25). DAE-BRNS 11th Biennial Trombe Symposium on Radiation & Photochemistry (TSRP- 2012),

- Bhabha Atomic Research Centre, Mumbai, India. Jan. 2012 (**Best Poster**) International
- (26). National Symposium on New-Horizons in Chemistry, IIT Bombay, Mumbai, India. Oct., 2011, (**Poster**) National
- (27). 3rd Indo-German Symposium on "Frontiers of Chemistry", IIT Bombay, Mumbai, India. Sept. 2011 (**Poster**) International
- (28). Workshop on Electron Microscopy (TEM/SEM/EPMA), SAIF/CRNTS, IIT Bombay, Mumbai, India. Apr. 2011, (**Participation**) Institute-level
- (29). In-House Symposium 2011, IIT Bombay, Mumbai, India. Feb. 2011 (**Poster**) Institute- level
- (30). MACRO-2010, 11th International Conference on 'Frontiers of polymers & advanced materials', IIT Delhi, India. Dec. 2010 (**Poster**) International
- (31). DAE-BRNS 10th Biennial Trombe Symposium on Radiation & Photochemistry (TSRP-2010), Treasure Island Resorts, Lonavala, India. Sept. 2010 (**Poster**) International

References/Academic Referees

Prof. Amit Dubey, PhD

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<http://www.op.titech.ac.jp/lab/vacha/index-e.html>

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