



Miranda House

UNIVERSITY OF DELHI

Name: Dr. Anuushka Pal

Department: Chemistry

Current Designation: Assistant Professor

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Academic Qualifications

Degree	Discipline/ Title	Year	Institute /University
M.Sc	Chemistry (Organic)	2009	University of Delhi (DU), Delhi, India
B.Sc	Chemistry (Hons)	2007	Miranda House, University of Delhi (DU), Delhi

Research Degree(s)

Degree	Discipline/ Title	Year	Institute /University
Postdoc (NPDF)	Organic nanomaterials	2019	CSIR-National Physical Laboratory, Delhi
Ph.D	Nanomaterials	2017	Indian Institute of Technology (IIT), Delhi, New Delhi, India

Field of Specialization under the Subject/Discipline: Organic

Total Teaching Experience: 4 years

Teaching at Miranda House since: 22nd July 2019

List of Publications

- *Fluorescence Quenching of CdTe Quantum Dots with Co (III) Complexes via Electrostatic Assembly Formation*. **Anuushka Pal**, Bhawna Arora, Diksha Rani, Sumit Srivastava, Rajeev Gupta, Sameer Sapra *Z.Phys.Chem* (2018) <https://www.degruyter.com/document/doi/10.1515/zpch-2018-1138/html>
- *Quantum dots in visible light photoredox catalysis: Reductive dehalogenations and C–H arylation reactions using aryl bromides*. **Anuushka Pal**, Indrajit Ghosh, Sameer Sapra, Burkhard Koenig *Chem.Mater.* **2017**, 29, 5225 (**Impact Factor: 10.51**)
<https://pubs.acs.org/doi/10.1021/acs.chemmater.7b01109>



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- *Probing the Mechanism of Fluorescence Quenching of QDs by Co(III)-Complexes: Size of QD and Nature of the Complex Both Dictate Energy and Electron Transfer Processes:* **Anuushka Pal**, Sumit Srivastava, Parveen Saini, Shreya Raina, Pravin P. Ingole, Rajeev Gupta, and Sameer Sapra, *J. Phys. Chem. C*, **2015** 119 (39), 22690-22699 (**Impact Factor: 4.12**)
<https://pubs.acs.org/doi/10.1021/acs.jpcc.5b06795>
- *Simultaneous Type-I/Type-II Emission from CdSe/CdS/ZnSe Nano-Heterostructures:* Udit Soni, **Anuushka Pal**, Sajan Singh, Mona Mittal, Sushma Yadav, Ravikrishnan Elangovan, Sameer Sapra, *ACS Nano*, **2014**, 8, 113 (**Impact Factor: 18.03**)
<https://pubs.acs.org/doi/10.1021/nn404537s>
- *Electron transfer from CdSe/ZnS core shell quantum dots to Cobalt (III) complexes:* **Anuushka Pal**, Sumit Srivastava, Rajeev Gupta, Sameer Sapra, *Phys. Chem. Chem. Phys*, **2013**, 15, 15888 (**Impact Factor: 3.67**) <https://pubs.rsc.org/en/content/articlelanding/2013/CP/c3cp51834e>

Book chapter

Conjugated-Polymer/Quantum-Confined Nanomaterials Hybrids for Optoelectronic Applications, by **Anuushka Pal**, Parveen Saini and Sameer Sapra, in *Fundamentals of Conjugated Polymer Blends, Copolymers and Composites*, Scrivener Publishing LLC Edited by: P. Saini, [pp 163-228, 2015](#).

Research Projects

SERB-DST NPDF (2017-2019), PI –Dr Anuushka Pal, Rs 20 Lakh

Invited talks/Session chair/Resource person

Facilitator/Mentor at the summer workshop “Flavor of Research” for undergraduate science students organized by DS Kothari Centre for research and innovation in science education, Miranda House, University of Delhi, Delhi-110007. 09.06.2022 to 21.07.2022

Facilitator/Mentor at the summer workshop “Flavor of Research” for undergraduate science students organized by DS Kothari Centre for research and innovation in science education, Miranda House, University of Delhi, Delhi-110007. 05.06.2022 to 18.07.2023

Resource Person for the Bridge Course on Laboratory Safety and Handling of Equipment for B.Sc.(H)



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Chemistry, conducted by Department of Chemistry, Miranda House on 2- 3 December, 2021.

Resource Person for the Bridge Course on Laboratory Safety and Handling of Equipment for B.Sc. (H) Chemistry, conducted by Department of Chemistry, Miranda House on 1 and 9 August, 2019.

Conferences Organized

- A member of the Organizing Committee for the International Conference on “Recent Trends in Chemical Science-2023” held on 14-15 February 2023, organized by Department of Chemistry, Miranda House, University of Delhi
- A member of Organizing Committee for the online International conference on “Science and Society” held at Miranda House, University of Delhi. Delhi-110007. 23-25 February 2022
- A member of the Organizing Committee for the International Webinar on “Empowering Diversity in Science” held on 12 February 2021, organized by Department of Chemistry, Miranda House, University of Delhi.
- A member of the Organizing Committee for International conference, “Chemistry-the catalyst for change” held on 19-20 February 2021, organized by Department of Chemistry, Miranda House, University of Delhi.
- Member of organizing committee for National Webinar “Learnings from the Corona Pandemic” organized by Department of Chemistry, Miranda House, University of Delhi on 24-25 September 2020
- Member of organizing committee for IUPAC Symposium on “Bonding to Create Future Leaders in Sciences” organized by Department of Chemistry, Miranda House, University of Delhi on 12 February 2020
- Member of organizing committee National Workshop Nano Road Show-2020 organized by Department of Chemistry, Miranda House on 1 February 2020

Seminars/Workshops/Conferences attended

- Online two week refresher course in **Chemistry** organized by Teaching Learning Centre, Ramanujan College in collaboration with Miranda House, under the aegis of Ministry of Education under PMMMNMTT scheme. PMMMNMTT, Delhi, India 30.06.2023 - 14.07.2023
- Online two week inter disciplinary refresher course in **Managing Online classes & Co creating MOOCS 27.0**” organized by Teaching Learning Centre, Ramanujan College in collaboration with Miranda House, under the aegis of Ministry of Education under PMMMNMTT scheme, PMMMNMTT, Delhi, India. 06.06.2023 - 20.06.2023
- Online one month faculty induction programme for “Faculty in Universities/Colleges/Institutes of Higher Education organized by Teaching Learning Centre, Ramanujan College in collaboration with Miranda House, under the aegis of Ministry of Education under PMMMNMTT scheme. PMMMNMTT, Delhi, India, 23.04.2023 – 22.05.2023



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- Participated in the 2nd International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2022) held at Conference Center, University of Delhi, North Campus, Delhi, India. 6.12.2022 - 8.12.2022.
- Online two week faculty development programme in Chemical Sciences Organized by Teaching Learning Centre, Ramanujan College in collaboration with Miranda House under the aegis of Ministry of Education under PMMMNMTT scheme, India. 01.02.2022-15.02.2022 PMMMNMTT Delhi
- Participated in Five days Training Programme on “Understanding the Vulnerability and risk associated with urban areas” organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Centre for Environmental Studies and Disaster Management, Miranda House and Department of Environmental Studies, University of Delhi on 23.11.2021-27.11. 2021
- A national webinar on Economic Crisis and its Redressal During Pandemic Organized by Department of Chemistry, Bhaskaracharya College of Applied Sciences on 15 May 2020
- Participated in one week online Faculty Development programme on Environmental Impact of Covid -19 pandemic: Challenges and Future Research organized by University School of Environment Mangement, Guru Gobind Singh Indraprastha University on 27.05.2020-01-06.2020
- Participated in National Webinar on “Preventative healthcare diagnostic platforms based on Micro-nanotechnologies ” Organized by Department of Science, Lady Irwin College on 30 May, 2020
- Participated in National workshop on Emerging trends in Science and Technology: Issues in these unprecented time” organized by Department of Chemistry, Shyam Lal College on 8 August 2021
- Online Refresher Course in Chemistry for higher education faculty-2019-20 by Annual Refresher Programme in Teaching (ARPIT), Ministry of Human Resource Development, Government of India at Delhi.
- Participated in the 9th International Conference on Quantum Dots (QD2016), Jeju, South Korea