

## Dr. PARUL PANT

Department of Chemistry  
Hansraj College,  
University of Delhi, Delhi -110007  
Email: [parulpant@hrc.du.ac.in](mailto:parulpant@hrc.du.ac.in)

### WORK EXPERIENCE

- 1) Working as Assistant Professor of Chemistry in Hansraj College , University of Delhi Dec (2014-present).
- 2) Worked as Assistant Professor (Adhoc) at Maitreyi College, University of Delhi (2011-Dec 2014)

### EDUCATION

<b>UNIVERSITY OF DELHI</b> , Delhi, India, <b>Ph. D</b>	2010
Inorganic Chemistry, <b>Supervisor:</b> Prof. R.K. Sharma	
<b>UNIVERSITY OF DELHI</b> , <b>Master in Sciences</b>	2004
[M. Sc.], Inorganic Chemistry	
<b>UNIVERSITY OF DELHI, MIRANDA HOUSE</b> , <b>Bachelor of Sciences</b>	2002
[B.Sc.], Chemistry [Honours]	

### RESEARCH SUMMARY

- 1) **Worked as P.I for Innovation Project** (2015-16) “Synthesis of Drug Doped Silica Nanoparticles for Bioimaging and Therapeutic Applications” under Grant released from University of Delhi.
- 2) Worked on Project titled “**Bioextraction of Chromium from Plants and Formulation Development of Useful Microbes as Biopackage for Cleaning and Reclamation**”.
- 3) Worked on “*Synthesis, Characterization and applications of Functionalized Amberlite XAD-16 in metal ion extraction and Catalysis.*”.

### PROFESSIONAL AFFILIATIONS

Indian Chemical Society (Life Member) (LM-6603).  
Life member Green Chemistry Network Centre (7358).

### RESEARCH PUBLICATIONS

- Rejuvenation and Restoration of Surface Water Quality Amid COVID-19 Lockdown: A Comprehensive Review in Indian Context G Arora, P Pant, T Sharma, KK Taijas, C Gupta, RK Sharma Environmental Engineering Research 28 (3)2023

- Bioaccumulation and toxicity of polystyrene nanoplastics on marine and terrestrial organisms with possible remediation strategies: A review  
C Gupta, P Pant, S Kaushik, S Jain, I Dhanwani, S Garg, A Paul, P Pant, N Gupta  
,*Environmental Advances*, 100227 (2022)
- Curcumin loaded Silica Nanoparticles and their therapeutic applications: A review  
P Pant, C Gupta, S Kumar, A Grewal, S Garg, A Rai,*Journal of Materials NanoScience* 7 (1), 1-18
- “Engineered magnetic nanoparticles as efficient sorbents for wastewater treatment: a review.” published in **Materials Research Innovations** 2017,  
<https://doi.org/10.1080/14328917.2017.1334846>
- “Porous and chelated nanostructured multifunctional materials: recoverable and reusable sorbents for extraction of metal ions and catalysts for diverse organic reactions” **published in Journal of Nanostructure in Chemistry**, 6(2)(2016)45.
- “Solid phase extraction and determination of metal ions in aqueous samples using Quercetin modified Amberlite XAD-16 chelating polymer as metal extractant.” **International Journal of Environmental Analytical Chemistry**, 89(7)(2009)503
- “Preconcentration and determination of trace metal ions from aqueous samples by newly developed Gallic Acid modified Amberlite XAD-16 Chelating Resin” published in **Journal of Hazardous Materials** 163(2009)295.
- “Synthesis characterization and catalytic behaviour of Silica supported Zinc Salicyldimine Complex”, published in **Journal of Macromolecular Science, Part A**, 45(5) (2008) 394.

## BOOKS PUBLISHED

- 1) Taxmann's Environmental Studies (CBCS)(August 2020 Edition) ISBN-10 : 9390128382 ISBN-13 : 978-9390128389
- 2) Environmental Studies [CBCS] Taxmann Publication.4<sup>th</sup> Edition; ISBN No : 978-9387957725.
- 3) Environmental Studies [Choice Based Credit System (CBCS)] Taxmann Publication (2017, 3<sup>rd</sup> Edition) ISBN -988-9350717363
- 4) Environmental Science [Choice Based Credit System (CBCS)] Odisha (2017, 2<sup>nd</sup> Edition) ISBN 978-9386635303
- 5) Environmental Science [Choice Based Credit System (CBCS)] Odisha (2016,1<sup>st</sup> Edition) Taxmann Publication ISBN- 9789350719893
- 6) Environmental Studies (Choice Based Credit System) Taxmann Publication (2016, 2<sup>nd</sup> Edition) ISBN 978-9350719909
- 7) Environmental Studies (Choice Based Credit System) (2015, 1<sup>st</sup> Edition) Taxmann Publication ISBN 978-9350717363

## INTERNATIONAL BOOK CHAPTERS PUBLISHED

- 1) Modifications and Applications of Chitosan-Based Nanocomposites in Orthopaedics and Dentistry, T Singh, P Pant, S Kaushik, Chitosan-Based Nanocomposite Materials: Fabrication, Characterization and Biomedical Applications, Pages: 291-304, Publisher: Springer Nature Singapore
- 2) Strategies to Synthesize Diverse Metal–Organic Frameworks (MOFs), C Gupta, P Pant, H Rajput; Metal-Organic Frameworks (MOFs) as Catalysts, 69-97, 2022, Publisher: Springer Nature Singapore
- 3) Spectroscopic and Microscopic Techniques: Tools for Characterizing Nanoscale Metal–Organic Frameworks (NMOFs). P Pant, A Jaipuria, C Gupta, Metal-Organic Frameworks (MOFs) as Catalysts, 127-164, 2022, Publisher: Springer Nature Singapore

## ADMINISTRATIVE AND ACADEMIC DUTIES PERFORMED

- Member Garden Committee, Hansraj College (2019-20).
- Secretary, Hansraj Teachers Staff Association (2018-present).
- Member Environment Awareness Committee (2017-18).
- Deputy Superintendent of Examinations (**Evening**) Hansraj College (**Summer Session, 2017**).
- External examiner in Deshbandhu college for Physical Sciences, IV Semester (2018).
- External examiner in Zakir Hussain College for Life Sciences, II Semester (2018).
- Internal Examiner in Hansraj College for Physical Sciences, IV Semester (2018).
- External examiner in Deshbandhu College for Chemistry Honours, I Semester (2017).
- Internal Examiner in Hansraj College, I semester (2017)

## CONFERENCES/WORKSHOPS/SEMINARS ATTENDED

- Attended Seminar on Empowering Women through Science & Technology organized by the National Academy of Sciences, 2018
- Assisted in Organizing workshop on “Chemistry Laboratory Working Skills and Safety Education” by IQAC & Department of Chemistry Hansraj College, University of Delhi.
- Participated in Indo-US Scoping Workshop on “Development of Rural Biorefineries in India: From Waste to Wealth” organized by University of Delhi and TERI, 2017
- Participated in FDP on Digital Literacy: An Introduction to ICT skills at Department of Physics and Electronics, Hansraj College, University of Delhi.

