

FACULTY PROFILE



Name: Dr. Radha Gupta

Designation: Assistant Professor

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Professional Qualification:

Degree	Institute/Organization	Specialization	Year of Passing
PhD	Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand	Material Chemistry	2022
M. Sc.	Jiwaji University, Gwalior, Madhya pRadesh	Environmental Chemistry	2011
B. Sc.	Jiwaji University, Gwalior	Industrial Chemistry	2009

Publications (Journals & Conferences):

- Fabrication and application of low-cost thiol functionalized coal fly ash for selective adsorption of heavy metal ions from water, S. Dash, H. Chaudhuri, R. Gupta, U. G. Nair and A. Sarkar*, *Industrial & Engineering Chemistry Research*, 2017, 56, 1461. <https://doi.org/10.1021/acs.iecr.6b03869>
- Room-temperature in-situ design and use of graphene oxide-SBA-16 composite for water remediation and reusable heterogeneous catalysis, H. Chaudhuri, S. Dash, R. Gupta, D. D. Pathak and A. Sarkar*, *ChemistrySelect*,

2017, 2, 1835. <https://doi.org/10.1002/slct.201601817>

- Efficient synthesis of branched polyamine based thermally stable heterogeneous catalyst for Knoevenagel condensation at room temperature, H. Chaudhuri*, R. Gupta and S. Dash, *Catalysis Letters*, 2018, 148, 1703. <https://doi.org/10.1007/s10562-018-2368-6>
- Adsorption study of modified coal fly ash with sulfonic acid as a potential adsorbent for the removal of toxic reactive dyes from aqueous solution: Kinetics and thermodynamics, S. Dash, H. Chaudhuri, R. Gupta and U. G. Nair*, *Journal of Environmental Chemical Engineering*, 2018, 6, 5897. <https://doi.org/10.1016/j.jece.2018.05.017>
- Synthesis and characterization of guanine-functionalized mesoporous silica [SBA-16-G]: a metal-free and recyclable heterogeneous solid base catalyst for the synthesis of pyran-annulated heterocyclic compounds, R. Gupta, S. Layek, and D. D. Pathak*, *Research on Chemical Intermediates*, 2019, 45, 1619. <https://doi.org/10.1007/s11164-018-3693-5>
- Selective adsorption of toxic heavy metal ions using guanine-functionalized mesoporous silica [SBA-16-g] from aqueous solution, R. Gupta, S. K. Gupta and D. D. Pathak*, *Microporous Mesoporous Materials*, 2019, 288, 109577. <https://doi.org/10.1016/j.micromeso.2019.109577>
- Surface functionalization of mesoporous silica with maltodextrin for efficient adsorption of selective heavy metal ions from aqueous solution, R. Gupta and D. D. Pathak*, *Colloids Surfaces A: Physicochemical Engineering Aspects*, 2021, 631, 127695. <https://doi.org/10.1016/j.colsurfa.2021.127695>
- Synthesis of 2-iminothiazolidin-4-ones using guanine functionalized SBA-16 as a solid base catalyst, R. Gupta and D. D. Pathak*, *Tetrahedron Letters*, 2021, 85, 153497. <https://doi.org/10.1016/j.tetlet.2021.153497>

Awards and Achievements

- NIL

Workshops/Seminars/FDPs

- **International Conference on Chemistry for Human Development (ICCHD-2018)**, was held on January 8-10, 2018 at HIT Kolkata, West Bengal, India.
- **National Symposium on Contemporary Facets in Organic Synthesis (CFOS-2017)**, was held on December 22-24, 2017 at IIT Roorkee, India.
- **Workshop on Intricacies of Adsorbents, Adsorption and Catalytic Degradation**, sponsored by MHRD-SPARC was held on September 23-27, 2017 at Maulana Azad National Institute of Technology, Bhopal, India.
- **One day International Webinar on the “Catalytic Materials”**, organized by The Catalysis Society of India was held on February 27, 2021 at IIT (ISM), Dhanbad, India.

Work Experience:

- 10 Months

Professional Memberships:

- NIL