

Research and Review Articles:

1. Gunjan Arora, Tanishka Sharma, Kirti Kashyap Taijas, Parul Pant, Chetna Gupta and Rakesh Kumar Sharma, Rejuvenation and Restoration of Surface Water Quality Amid COVID-19 Lockdown: A Comprehensive Review in Indian Context, *Environmental Engineering Research*, 2023; 28, 220144.
2. Priya Yadav, Radhika Gupta, Gunjan Arora, Anju Srivastava and Rakesh Kumar Sharma, Synthesis of phenol esters by direct C–H activation of aldehydes using a highly efficient and reusable copper-immobilized polyimide covalent organic framework (Cu@PI-COF), *New Journal of Chemistry*, 2022, 46, 4715-4723.
3. Priya Yadav, Manavi Yadav, Rashmi Gaur, Radhika Gupta, Gunjan Arora, Anju Srivastava, Anandarup Goswami, Manoj B. Gawande and Rakesh Kumar Sharma, Chemistry of magnetic covalent organic frameworks (MagCOFs): from synthesis to separation applications, *Materials Advances*, 2022, 3, 1432-1458.
4. Manavi Yadav, Anju Srivastava, Rashmi Gaur, Radhika Gupta, Gunjan Arora and Rakesh Kumar Sharma, An Efficient and Sustainable Approach to Decarboxylative Cross-Coupling Using Silica Coated Magnetic Copper Nanocatalyst for the Synthesis of Internal Alkynes, *Frontiers in Chemistry*, 2021, 9, 773855.
5. Gunjan Arora, Manavi Yadav, Rashmi Gaur, Radhika Gupta, Priya Yadav, Ranjana Dixit, Rakesh Kumar Sharma, Fabrication, Functionalization and Advanced Applications of Magnetic Hollow Materials in Confined Catalysis and Environmental Remediation, *Nanoscale*, 2021, 13, 10967-11003.
6. Gunjan Arora, Ruchi Shrivastava, Prashant Kumar, Rakeshwar Bandichhor, Dhileep Krishanmurthy, Rakesh Kumar Sharma, Avtar Singh Matharu, Jaya Pandey, Mohammad Rizwan, Recent Advances Made in the Synthesis of Small Drug Molecules for Clinical Applications: An Insight, *Current Research in Green and Sustainable Chemistry*, 4, 2021, 100097.
7. Gunjan Arora, Radhika Gupta, Priya Yadav, Ranjana Dixit, Anju Srivastava, Rakesh Kumar Sharma, Ultrasonically-mediated one-pot synthesis of substituted imidazoles via sulfamic acid functionalized hollow magnetically retrievable solid-acid catalyst, *Current Research in Green and Sustainable Chemistry*, 4, 2021, 100050.
8. Radhika Gupta, Gunjan Arora, Priya Yadav, Ranjana Dixit, Anju Shrivastava, Rakesh Kumar Sharma, Magnetically retrievable copper ionic liquid nanocatalyst for cyclooxidative synthesis of 2-phenylquinazolin-4(3H)-ones, *Dalton Transactions*, 2020, DOI: 10.1039/d0dt03634j.

9. Radhika Gupta, Manavi Yadav, Rashmi Gaur, Gunjan Arora, Priya Yadav, Rakesh Kumar Sharma, Magnetically supported ionic liquids: a sustainable catalytic route for organic transformations, *Materials Horizons*, 7, 2020, 3097-3130.
10. Gunjan Arora, Manavi Yadav, Rashmi Gaur, Radhika Gupta, Pooja Rana, Priya Yadav, Rakesh Kumar Sharma, Ni(II)-loaded magnetically separable nanoreactor scaffold: fabrication and potential catalytic application in confined synthesis of unsymmetrical diaryl sulfides in water, *RSC Advances*, 10, 2020, 19390-19396.
11. Priya Yadav, Manavi Yadav, Rashmi Gaur, Radhika Gupta, Gunjan Arora, Pooja Rana, Anju Srivastava, Rakesh Kumar Sharma, Fabrication of copper-based silica-coated magnetic nanocatalyst for efficient one-pot synthesis of chalcones via A3 coupling of aldehydes-alkynes-amines, *ChemCatChem*, 12, 2020, 2488-2496.
12. Radhika Gupta, Manavi Yadav, Rashmi Gaur, Gunjan Arora, Pooja Rana, Priya Yadav, Alok Adholeya and Rakesh Kumar Sharma, Silica-Coated Magnetic-Nanoparticle-Supported DABCO-Derived Acidic Ionic Liquid for the Efficient Synthesis of Bioactive 3,3-Di(indolyl)indolin-2-ones, *ACS Omega*, 2019, 4, 25, 21529-21539.
13. R. K. Sharma, Subham Yadav, Radhika Gupta and Gunjan Arora, Synthesis of Magnetic Nanoparticles Using Potato Extract for Dye Degradation: A Green Chemistry Experiment under the special issue on "Reimagining Chemistry Education: Systems Thinking, and Green and Sustainable Chemistry", *Journal of Chemical Education*, 2019, 96, 12, 3038-3044.
14. Pooja Rana, Rashmi Gaur, Radhika Gupta, Gunjan Arora and Rakesh Kumar Sharma, Cross-dehydrogenative C(sp³)-C(sp³) coupling via C-H activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions, *ChemComm*, 2019, 55, 7402-7405.
15. Rashmi Gaur, Manavi Yadav, Radhika Gupta, Gunjan Arora and Rakesh Kumar Sharma, Aerobic oxidation of thiols to disulfides by silver-based magnetic catalyst, *ChemistrySelect*, 2018, 3, 2502.
16. Gunjan Arora, Manavi Yadav, Rashmi Gaur, Radhika Gupta and Rakesh Kumar Sharma, A novel and template-free synthesis of multifunctional double-shelled Fe₃O₄-C nanoreactor as an ideal support for confined catalytic reactions, *ChemistrySelect*, 2017, 2, 10871.
17. Radhika Gupta, Manavi Yadav, Rashmi Gaur, Gunjan Arora and Rakesh Kumar Sharma, A straightforward one-pot synthesis of bioactive N-aryl oxazolidin-2-ones via a highly efficient Fe₃O₄@SiO₂-supported acetate-based butylimidazolium ionic liquid nanocatalyst under metal- and solvent-free conditions, *Green Chemistry*, 2017, 19, 3801.

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1. Manavi Yadav, Radhika Gupta, Gunjan Arora and Rakesh Kumar Sharma, *Catalysis: A Promising Green Technology in 'Green Chemistry for Beginners'*, Jenny Stanford Publishing.
2. Gunjan Arora, Pooja Rana and Rakesh Kumar Sharma, *Greening Energy Sources in 'Green Chemistry for Beginners'*, Jenny Stanford Publishing.
3. Manavi Yadav, Radhika Gupta, Gunjan Arora, Priya Yadav, Anju Srivastava, Rakesh Kumar Sharma, Current status of heavy metal contaminants and their removal/recovery techniques, American Chemical Society, "Current status of environmental research on water contaminants", Edited by Dr. Satinder Ahuja, Chapter 3, 2020, pp 41-64.
4. Manavi Yadav, Yukti Monga, Gunjan Arora and Rakesh Kumar Sharma, *Different Approaches for Surface Modification in 'Silica-Based Organic-Inorganic Hybrid Nanomaterials: Synthesis, Functionalization and Applications in the Field of Catalysis' (Sustainable Chemistry Series Book 4)*, World Scientific Publication.
5. Radhika Gupta, Gunjan Arora, Manavi Yadav and Rakesh Kumar Sharma, *Catalytic Applications of Silica-Based Organic-Inorganic Hybrid Nanomaterials for Different Organic Transformations in 'Silica-Based Organic-Inorganic Hybrid Nanomaterials: Synthesis, Functionalization and Applications in the Field of Catalysis' (Sustainable Chemistry Series Book 4)*, World Scientific Publication.
6. Gunjan Arora, Sriparna Dutta, Radhika Gupta and Rakesh Kumar Sharma, *Other Potential Catalytic Applications and Future Perspectives, in 'Silica-Based Organic-Inorganic Hybrid Nanomaterials: Synthesis, Functionalization and Applications in the Field of Catalysis' (Sustainable Chemistry Series)*, World Scientific Publication.