

Achievements - Faculty (2024-25)

Research Papers Published (in APA format)

1. Anjum, A., Kashif, M., Aalam, J., **Iqbal, S.**, Singh, J., & Mukherjee, M. D. (2024). Synthesis and characterization of sustainable polyurethane-amide (PUA)-organoclay bio-nanocomposites for enhanced protective coatings. *Journal of Molecular Structure*, 1318, 139187.
2. Kumari, P., Kumawat, A., Meena, R. K., & Fageria, P. (2025). Hydrothermal synthesis of advanced MoS₂/Ni(OH)₂ nanocomposite for efficient hydrogen evolution reaction and visible light induced remediation of organic dyes. *Inorganic Chemistry Communications*, 114502. <https://doi.org/10.1016/j.inoche.2025.114502>
3. Lal, R., Gour, T., Dave, N., Sharma, Y.K., Sharma, K. (2024). Green route to fabrication of Semal- ZnO nanoparticles for efficient solar- driven catalysis of noxious dyes in diverse aquatic environments, *Frontiers in Chemistry*, <https://doi.org/10.1007/s11581-024-05757-1>
4. Lal, R., Sharma, A., Gour, T., Dave, N., Sharma, Y.K., Sharma, K. (2024). Biogenic production of eco-friendly Arjuna-ZnO NPs for sunlight activated efficient degradation of organic dyes of high commercial use. *Journal of Saudi Chemical Society*, <https://doi.org/10.1080/10715762.2023.2298857>
5. Gupta, S., Kumar, R., & Masram, D. T. (2024). Preparation of quercetin-Pd nanoparticles and their characterization. *Journal of Nanoscience and Nanotechnology Applications*, 8(1), 1-8.
6. Gupta, S., Kumar, R., & Masram, D. T. (2024). Preparation of PEG20K-Pd nanoparticles and their characterization. *Journal of Nanotechnology and Smart Materials*, 10(103), 1-9.
7. Gupta, S., Kumar, R., & Masram, D. T. (2024). Preparation of PEG12K-Pd nanoparticles and their characterization. *American Journal of Biomedical Science & Research*. 24(3)

Patent

Dr Yogesh Kumar Sharma

The Patent Office, Government of India granted patent for the invention entitled "Decoloring and Rejuvenating Solution for Wood and Method Thereof" Patent No. 540293, 2024.

Book

Dr Anjali Sehrawat

1. **Sehrawat, A.**, Raman, S., Zenita Devi, O., Agrawal, M., Yadav, S., Keshwar, R., Sagar, M., (2024). Physical Science-A Practical Manual of Chemistry and Physics. Print ISBN: 978-81-955567-6-2, Elite Publishing House, New Delhi.