



INSTITUTE OF NANO MEDICAL SCIENCES (INMS)
(Faculty of Medical Sciences)
UNIVERSITY OF DELHI

List of Publications (2022 - 2025)

1. Bhawana, Borah, A., Goel, T., Brahma, A., Singh, A., Sindhu, J., Chandra, R. and Singh, S. (2025). Effect of Noscapine Hydrochloride on the Near-Infrared Optical properties of Indocyanine Green. ACS Omega (In Press)
2. Mishra, N., Goel, T., Gangani, N., Singh, S., Chugh, H., Tiwari, M., Sharma, J., Chandra, R. (2025). The Virology of Omicron: Pathophysiology, Immune Regulation, and Clinical Impact of SARS-CoV-2 Sub variants. Virology Journal, Springer Nature. (In Press)
3. Chugh, H.; Mishra, N.; Chandra, S.; Sharma, J. G.; Chandra, R. (2025) Noscapine-Loaded Collagen-Based Silver Nanoparticles: A Potent Nano-Therapeutic Approach for Cancer Treatment. RSC Adv. 2025, 15 (40), 33264–33277. DOI:10.1039/D5RA03766B.
4. Aggarwal, K., Brahma, A., Nisha, Sharma, Y., Rajput, P., Sachdeva, B., Singh, A., Chandra, R., & Singh, S. (2025). Recent progress in copper nanomaterials: Catalysis, energy, biomedicine, and environmental applications. Materials Advances, 10.1039.D5MA00484E. DOI: 10.1039/D5MA00484E
5. Ghosh, A., Chandra, R., & Chauhan, N. (2025). Chemical Imprinting meets Nanotechnology: Ultra-Sensitive Monitoring of Beta-Endorphin. Talanta Open, 100529. DOI: 10.1016/j.talo.2025.100529
6. Brahma, A., Borah, A., Sharma, Y., Sperry, J., Chandra, R., & Singh, S. (2025). Novel CuFe₂O₄@ agar@ Cu₂O Nanocatalyst for Sustainable Synthesis of Biologically Active 1, 4-Benzodiazepines and 1-Aryl-1 H-tetrazoles. ACS Sustainable Chemistry & Engineering. DOI: 10.1021/acssuschemeng.4c10307
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8. Aslam, M., Malakar, V. K., Nand, B., Singh, S., Chandra, R., Kumari, K., Pandey, G., Singh, P. (2025) A comparative in silico study of noscapine, bosutinib, and the co-crystal ligand (DHHE) of 3B99 to investigate their interaction with prostacyclin synthase. Chem. Papers. DOI: 10.1007/s11696-025-04126-0

9. Aslam, M., Yadav, S., Singh, M. B., Tomar, N., Nand, B., Kumari, K., Pandey, G., Chandra, R., Singh, S., Singh, P. (2025) An insight for the sensing ability of Graphene Oxide for Pymetrozine through Electrochemical studies, In silico studies, and experimental approaches. *J. Ind. Chem. Soc.*, 102, 101779. DOI: 10.1016/j.jics.2025.101779
10. Aslam, M., Prajapat, A., Nand, B., Singh S., Chandra, R., Kumari, K., Pandey, G., Singh, P. (2025) Graphene Oxide for Antimony Sensing: An Integrated Electrochemical, Spectroscopic, and Computational Study. *J. Inorganic and Organometallic Pol. and Mat.*, 10.1007/s10904-025-03755-y
11. Ratnesh, R. K., Kumar, R., Singh, S., Chandra, R., Singh, J. (2025). Recent advances in solar cell technology: addressing technological challenges, scenarios, and environmental implications in the development of sustainable energy solutions. *New Journal of Chemistry*. DOI: 10.1039/D5NJ00719D
12. Kumar, Y., Shankar, S., Chandra, R., Kumar S. (2025). Phosphorus doping on 2D carbonaceous material modified conducting cellulosic paper for SAA biomarker detection. *Microchemical Journal*, 2025, 114026. DOI: 10.1016/j.microc.2025.114026
13. Sachdeva, B., Aggarwal, K., Singh, A., Kumari, K., Chandra, R., Singh, S. (2025) Advancements in silver-based nanocatalysts for organic transformations and other applications: a comprehensive review (2019–2024). *RSC advances*, 15(22), 17591-17634. DOI: 10.1039/D5RA00336A
14. Singh, S., Sewariya, S., Goel, T., Panchal, S., Singh, A., Kukreti, S., Chandra, R. (2025). Assessing dual drug 9-hydroxymethyl noscapine and telmisartan-loaded stearic acid nanoparticles against (H1299) non-small cell lung cancer and their mechanistic interaction with bovine serum albumin. *Materials Advances*, 6(4), 1364-1378. DOI: 10.1039/D4MA00958D
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16. Nisha, Kohli, S., Aggarwal, K., Singh, S., Sharma, N., Chandra, R. (2025). CuI/MnO₂ nanocatalysed synthesis of bioactive 2-substituted benzimidazoles. *Inorganic Chemistry Communications*, 171, 113556. DOI: 10.1016/j.inoche.2024.113556
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Mehra (Ed.), *Complex Ophthalmic Dosage Forms: Advances in Biomedical Applications and Future Perspectives* (pp. 413–434). Springer Nature Singapore. DOI: 10.1007/978-981-96-6306-4_14

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20. Kumar, J., Roy, I. (2025) Advancements in diagnostic approaches for Wilson's disease. *Analytical Methods*, 17, 4228 – 4250. DOI: 10.1039/d5ay00118hrsc.li/methods.
21. Balyan, S., Chauhan, N., Hooda, V., Chandra, R., Rosario, W., Jain, U. (2024). Advancing Electrochemical Sensing: A Smart Platform for Accurate CRP Level Detection in Neonatal Septicaemia. *Talanta Open*, 10, 100369. DOI: 10.1016/j.talo.2024.100369.
22. Goel, T., Deshwal, N., Gusain, S., Chandra, R., Tiwari, M., Singh, S., (2024). Synthesis, characterisation of ZnO@ PDA@ Ag nanocomposite: Mechanistic interaction with BSA, photodegradation activity & in vitro cytotoxicity assay on H1299 lung cancer cell line. *International Journal of Biological Macromolecules*, 283, 137532. DOI: 10.1016/j.ijbiomac.2024.137532.
23. Singh, S., Goel, T., Singh, A., Chugh, H., Chakraborty, N., Roy, I., Tiwari, M., Chandra, R. (2024) Synthesis and characterization of Fe₃O₄@SiO₂@PDA@Ag core-shell nanoparticles and biological application on human lung cancer cell line and antibacterial strains. *Artificial cells, Nanomedicine, and Biotechnology*, 52(1), 46 - 58. DOI: 10.1080/21691401.2023.2295534.
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31. Singh, V. K. and Chandra, R. "Molecular techniques for cancer diagnostics (2024). *Academia Medicine*, 1. DOI: 10.20935/AcadMed6161.
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active 2, 4, 5-trisubstituted imidazole scaffolds. *Nanoscale Advances*, 5(8), 2352 - 2360. DOI: 10.1039/D3NA00077J.

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49. Aggarwal, R., Kumar, P., Jain, N., Hooda, M., Kumar, S., Sadana, R., Lwanga, R., Guzman, A., Chugh, H., Chandra, R. (2023). Synthesis and In vitro-In silico Evaluation of Thiazolo-triazole Hybrids as Anticancer Candidates. *Chemistry Select*, 8, e202301368. DOI: 10.1002/slct.202
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66. Balyan, S., Chauhan, N., Chandra, R., Jain, U. (2022). Bio-electrochemical inter-molecular impedance sensing (Bio-EI2S) at calcium-calmodulin interface induced at Au-electrode surface. *Journal of Solid State Electrochemistry*, 26(6), 1369 - 1380. DOI: 10.1007/s10008-022-05169-z.

Book Chapters

67. Kumar R, Ratnesh RK, Singh J., Chandra R. (2025)
An Overview of Industry 4.0 applications in the area of nanotechnology, pp. 1 – 27. In book: *Nanotechnology Applications for Industry 4.0*, Publisher: CRC Press (e-book ISBN: 9781003634553). DOI: <https://doi.org/10.1201/9781003634553>
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Advancement Challenges and Applications of Nanomaterials, pp. 59 – 83. In book: *Nanotechnology Applications for Industry 4.0*, Publisher: CRC Press (e-book ISBN: 9781003634553). DOI: <https://doi.org/10.1201/9781003634553>
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Synergizing Nanotechnology with Biomedical and Biotechnology for Healthcare, pp. 108 – 145. In book: *Nanotechnology Applications for Industry 4.0*, Publisher: CRC Press (e-book ISBN: 9781003634553). DOI: <https://doi.org/10.1201/9781003634553>
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- Polymeric Microsponges for Drug Delivery to Ocular Candidiasis Infections: Preclinical and Clinical Evidence, pp - 413 – 434. In book: Complex Ophthalmic Dosage Forms: Advances in Biomedical Applications and Future Perspectives, Publisher: Springer Nature Singapore (Online ISBN978-981-96-6306-4, Print ISBN978-981-96-6305-7). DOI: https://doi.org/10.1007/978-981-96-6306-4_14
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Quality-By-Design Strategy for developing novel herbal products, pp – 263 – 295. In book: Introduction to Quality by Design (QbD), Publisher: Springer Nature Singapore (e-book ISBN: 9789819980345). DOI: [10.1007/978-981-99-8034-5_11](https://doi.org/10.1007/978-981-99-8034-5_11)