# Dr. Arvind Kumar

## Research Publications

| S.N. | Publications | Session |
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| 1 | Singh, I., Kumar, A., Desai, N. N., & Paul, J. R. (2025). Commentary on "Explainable artificial intelligence for predicting dengue outbreaks in Bangladesh using eco-climatic triggers." Global Epidemiology, 10, Article 100231. https://doi.org/10.1016/j.gloepi.2025.100231 | 2025-26 |
| 2 | Gairola, J., Kumar, A., Desai, N. N., & Dedeepya, D. (2025). Comment on "Effectiveness and influence of mindfulness-based intervention on migraine patients: A systematic review and meta-analysis." Journal of Psychosomatic Research, 199, Article 112406. https://doi.org/10.1016/j.jpsychores.2025.112406 | 2025-26 |
| 3 | Gairola, J., Kumar, A., Desai, N. N., & Jaison, K. (2026). Comment on "Impact of needle gauge selection on sample adequacy in ultrasound-guided thyroid fine-needle aspiration: A systematic review and meta-analysis." Academic Radiology, 33(1), 117–118. https://doi.org/10.1016/j.acra.2025.10.012 | 2025-26 |
| 4 | Gairola, J., Kumar, A., Desai, N. N., & Dedeepya, D. (2025). Comment on “Effectiveness and influence of mindfulness-based intervention on migraine patients: A systematic review and meta-analysis.” *Journal of Psychosomatic Research*, *199*, Article 112406. https://doi.org/10.1016/j.jpsychores.2025.112406 | 2025-26 |
| 5 | Chauhan, A., Salahuddin, Mazumder, A., Kumar, R., Ahsan, M. J., Yar, M. S., Kumar, A., & Kapoor, B. (2025). Innovative synthesis of 3,5-disubstituted pyrazoline with heterocyclic system for hybrid development. Letters in Organic Chemistry, 22(4), 263–282. https://doi.org/10.2174/0115701786329318240925115206 | 2024-25 |
| 6 | Rajeswari, S., Deepthi, P., Verma, S., Kumar, A., Dev, A., & Kaur, A. (2025). Clinical outcomes after the recognition and management of Sjögren's syndrome in children: A case study. Health Leadership and Quality of Life, 4, Article 614. https://doi.org/10.56294/hl2025614 | 2024-25 |
| 7 | Mishra, P., Gupta, S., Devmurari, P., Raj, N., Natarajan, N. P., & Kumar, A. (2025). Obesity-related breathing disorders: Diagnosis and treatment of hypoventilation syndrome. Health Leadership and Quality of Life, 4, Article 612. https://doi.org/10.56294/hl2025612 | 2024-25 |
| 8 | Nishad, M., Verma, S., Kumar, A., & Khurana, N. (2025). Formulation and evaluation of apigenin-loaded microsponge gel for effective angioedema therapy. Current Pharmaceutical Analysis, 21(4), 203–215. https://doi.org/10.1016/j.cpan.2025.03.001 | 2024-25 |
| 9 | Jain, A., Majee, C., Mazumder, R., Padhi, S., Mazumder, A., Das, S., Kumar, A., & Chaitanya, M. V. N. L. (2025). Insight into the | 2024-25 |

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| | novel synthesis approaches and biological activity of 1,3,4 oxadiazole: A review. Letters in Organic Chemistry, 22(1), 23–36. https://doi.org/10.2174/0115701786304096240324113413 | |
| 10 | Tripathi, S., Kumar, R., Mazumder, A., Salahuddin, Kukreti, N., Kumar, A., & Singh, G. (2025). Hydrazides: An important tool for the synthesis of 1,3,4-oxadiazole. Current Organic Chemistry, 29(8), 658–668. https://doi.org/10.2174/0113852728327072240816065351 | 2024-25 |
| 11 | Rehman, M.U., Chaudhary, M., Arya, A. & Kumar, S. (2025). Recalcitrant effect associated with the development of microshoots on callus culture of Adansonia digitata L. Journal of Applied Horticulture, 27(2). https://doi.org/10.37855/jah.2025.v27i02.31 | 2024-25 |
| 12 | Yadav, N. K., Mazumder, R., Rani, A., Kumar, A., & Kaur, J. (2025). Search for novel therapeutic targets of Type 2 diabetes mellitus. Current Drug Therapy, 20(7), 1001–1018. https://doi.org/10.2174/0115748855313087240719072514 | 2024-25 |
| 13 | Kumar, A., Tyagi, P.K., Tyagi, S., & Ghorbanpour, M. (2024). Integrating green nanotechnology with sustainable development goals: A pathway to sustainable innovation. Discover Sustainability. https://doi.org/10.1007/s43621-024-00610-x | 2024-25 |
| 14 | Faizan, M., Kumar, R., Mazumder, A., Salahuddin, Kukreti, N., Kumar, A., & Chaitanya, M. V. N. L. (2024). Synthetic protocols, structural activity relationship, and biological activity of piperazine and its derivatives. Medicinal Chemistry, 20(8), 753–780. https://doi.org/10.2174/0115734064304396240415110015 | 2024-25 |
| 15 | Tripathi, S., Kumar, R., Mazumder, A., Salahuddin, Kukreti, N., Kumar, A., & Singh, S. (2024). The catalysts-based synthetic approaches to quinolines: A review. Medicinal Chemistry, 20(10), 921–937. https://doi.org/10.2174/0115734064315729240610045009 | 2024-25 |
| 16 | Pal, R. S., Pal, Y., Chaitanya, M. V. N. L., Babu, R., Mazumder, R., & Kumar, A. (2024). Multifaceted understandings of cancer: A review of disease mechanisms and therapies. Current Cancer Therapy Reviews, 20(5), 481–488. https://doi.org/10.2174/0115733947261646231006045929 | 2024-25 |
| 17 | Chauhan, M., Mazumder, R., Rani, A., Kumar, A., & Chaitanya, M. V. N. L. (2025). Targeted therapy for atopic dermatitis: A novel approach. Current Drug Therapy, 20(6), 864–879. https://doi.org/10.2174/0115748855307501240607045747 | 2023-24 |
| 18 | Rohilla, J., Mishra, R., Varshney, S., Mazumder, A., Mazumder, R., Kumar, A., & Kaur, A. (2024). Multi-functional acyl urea compounds: A review on related patents, clinical trials, and synthetic approaches. Current Organic Chemistry, 28(17), 1366–1379. https://doi.org/10.2174/0113852728307286240517054021 | 2023-24 |
| 19 | Faizan, M., Kumar, R., Mazumder, A., Salahuddin, Kukreti, N., Kumar, A., & Chaitanya, M. V. N. L. (2024). The medicinal chemistry of piperazines: A review. Chemical Biology & drug design, 103(6), e14537. https://doi.org/10.1111/cbdd.14537 | 2023-24 |

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| 20 | Gupta, J., Rani, A., Kumar, A., & Kumar, B. (2024). Potential of natural bioactive compounds in management of melasma. Plant Science Today. https://doi.org/10.14719/pst.3164 | 2023-24 |
| 21 | Debnath, A., Sharma, S., Mazumder, R., Mazumder, A., Singh, R., Kumar, A., Dua, A., Singhal, P., Kumar, A., & Singh, G. (2024). In search of novel SGLT2 inhibitors by high-throughput virtual screening. Current Drug Discovery Technologies, 21(3), 20–31. https://doi.org/10.2174/0115701638267615231123160650 | 2023-24 |
| 22 | Arya, A., Tyagi, P. K., Bhatnagar, S., Bachheti, R. K., Bachheti, A., & Ghorbanpour, M. (2024). Biosynthesis and assessment of antibacterial and antioxidant activities of silver nanoparticles utilizing Cassia occidentalis L. seed. Scientific Reports, 14(1), 7243. https://doi.org/10.1038/s41598-024-57823-3 | 2023-24 |
| 23 | Tyagi, S., Kumar, A., Tyagi, P. K., & Hatami, M. (2024). Development and characterization of biogenic copper oxide nanoparticles, with an exploration of their antibacterial and antioxidant potential. 3 Biotech, 14(1), 20. https://doi.org/10.1007/s13205-023-03869-5 | 2023-24 |
| 24 | Joshi, S., Salahuddin, Mazumder, A., Kumar, R., Shabana, K., Tyagi, S., Rana, K., Ahsan, M. J., Yar, M. S., Arya, A., & Khurana, N. (2023). Significant advancement in various synthetic strategies and pharmacotherapy of piperine derivatives: A review. Current Topics in Medicinal Chemistry, 23(25), 2394–2415. https://doi.org/10.2174/0115680266256255231009075303 | 2023-24 |
| 25 | Shah, U., Ahmad, N., Garhwal, R., Singh, S., & Kumar, A. (2023). Understanding the adaptation and sensitivity of the microbiome: microbial resilient and human well-being. Georgian medical news, (343), 134-138. https://geomednews.com/submissions/index.php/gmn/index | 2023-24 |