

Dr Rohit Sharma

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Ongoing Research Projects

- Survey, Selection, Phytochemical Evaluation, Cytogenetical Characterization and Multi-location testing of harar (*Terminalia chebula* Retz) in India funded by National Medicinal Plant Board for from February 2022 to 2025 (Co-Principal Investigator)

Important Research Publications

- Sharma, Y. P., Bhardwaj, C., Sharma, R., Thakur, P., & Sharma, R. 2023. A new RP-HPLC method for simultaneous determination of amaroswerin, amarogentin and andrographolide in a herbal drug "Chirayata". *Journal of Chromatographic Science*, 61(2), 172-176.
- Ahmad Sofi, F. Sharma, R 2021. Visible light promoted tandem dehydrogenation-deaminative cyclocondensation under aerobic conditions for the synthesis of 2-aryl benzimidazoles/quinoxalines from *ortho*-phenylenediamines and arylmethyl/ethyl amines. *New Journal of Chemistry*, 45(10), 4569-4573.
- Sofi, F. A., Sharma, R., Kavyasree, S. N., Salim, S. A., Wanjari, P. J., & Bharatam, P. V. 2019. Singlet oxygen mediated one pot synthesis of *N*-pyridinylamides via oxidative amidation of aryl alkyl ketones. *Tetrahedron*, 75(40), 130536
- Sharma, R., Sofi, F. A., Rana, P., & Bharatam, P. V. 2019. Bimetallic Cu–MnB spinel oxide catalyzed oxidative synthesis of 1,2-disubstituted benzimidazoles from benzyl bromides. *New Journal of Chemistry*, 43(10), 4013-4016
- Sharma, R., Abdullaha, M., & Bharate, S. B. 2017. Metal-free ionic-liquid-mediated synthesis of benzimidazoles and quinazolin-4(3*H*)-ones from benzylamines. *Asian Journal of Organic Chemistry*, 6(10), 1370-1374
- Sharma, R., Abdullaha, M., & Bharate, S. B. 2017. Oxidant-controlled C- sp²/sp³-H cross-dehydrogenative coupling of *N*-Heterocycles with benzylamines. *The Journal of Organic Chemistry*, 82(18), 9786-9793.
- Sharma, R., Patel, N., Vishwakarma, R. A., Bharatam, P. V., & Bharate, S. B. 2016. Metal-free oxidative cyclization of acetophenones with diamines: a facile access to phenylpyridines. *Chemical Communications*, 52(5), 1009- 1012.
- Sharma, R., Vishwakarma, R. A., & Bharate, S. B. 2016. Ligand-free copper- manganese spinel oxide catalyzed tandem one pot C–H amidation and *N*- arylation of benzylamines: A facile access to 2, arylquinazolin-4 (3*H*)ones. *Advanced Synthesis & Catalysis*, 358(19), 3027-3033.
- Sharma, R., Abbat, S., Mudududdla, R., Vishwakarma, R. A., Bharatam, P. V., & Bharate, S. B. 2015. *ortho*-Quinone methides: TFA-mediated generated in water and trapping with lactams and styrenes. *Tetrahedron Letters*, 56(27), 4057-4059.
- Mudududdla, R., Sharma, R., Abbat, S., Bharatam, P. V., Vishwakarma, R. A., & Bharate, S. B. 2014. Synthesis of 2-phenylnaphthalenes from styryl-2- methoxybenzenes. *Chemical Communications*, 50(81), 12076-12079.

Awards & Recognitions

- SERB-SIRE Fellowship (SERB, DST, 2022)
- Marie Curie Seal of excellence (European Union, 2020)

- Dr. D.S. Kothari Postdoc Fellowship (University Grants Commission, New Delhi, 2019)
- Thomas Mitchell Medal of Excellence (Irish Research Council, Ireland, 2018)
- Government of Ireland Postdoc Research Fellowship (Irish Research Council, Ireland, 2018)
- Endowed Fellowship (University of Ottawa Heart Institute, Canada, 2018)
- National Post Doc Fellowship (SERB, 2017)
- Inspire Fellowship (DST, New Delhi, 2011)
- Best Teacher Award (Chandigarh Group of Colleges, 2011)
- Gold Medal (Punjabi University, Patiala, 2009)
- Swami Vivkanand Utkrisht Chhatervritti Yogna (HPBOSE, Dharmshala, 2002)