Curriculum vitae

Dr. Maheshwar Singh Thakur

Personal Details

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Citizenship India

Professional Qualifications

Degree	Institute/College/Board	Year	Percentage	
Xth	Kendriya Vidyalaya Alhilal Central Board of Secondary Education	2005	66.80 %	English, Maths, Hindi, S.St., Science
XIIth	Kendriya Vidyalaya Palampur Central Board of Secondary Education	2007	61.60 %	English, Physics, Chemistry, Maths, Biology
B.Sc.(N.M.)	College of Basic Sciences CSK Himachal Pradesh Krishi Vishvavidyalaya Palampur	2010	66.80 %	Chemistry, Physics, Maths, English, Computers
M. Sc. Chemistry	Department of Chemistry Himachal Pradesh University Shimla	2012	69.00 %	Physical, Organic and Inorganic Chemistry
M. Phil. Chemistry	Department of Chemistry Himachal Pradesh University Shimla	2013	64.00 %	Solution Chemistry
	Topic of research	Thermotransport Studies of $ZnSO_4$ $7H_2O$ in Maltose in 0.01m Aqueous Sodium Chloride Solutions at Different Temperatures		
Ph. D Chemistry	CSIR - Institute of Himalayan Bioresource Technology, Palampur Academy of Scientific and Innovative Research	2018	85.8%	Organic Chemistry
	Topic of research	**Quinazolinone scaffold synthesis and their Organocatalytic applications in organic transformations**		

Employment History

- Worked as **Guest faculty** for teaching undergraduate classes (August2018 - January 2019) at College of Basic Sciences, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, India.
- Worked as **Research Associate** at CSIR - Institute of Himalayan Bioresource Technology, Palampur, India (February 2019-June 2019).
- **Dr. D.S.Kothari Post Doctoral Fellow** at Himachal Pradesh University, Shimla, (21st June 2019- 26 August 2021).
- **Assistant Professor** St. Bede's College Shimla (27 August,2021- 30 September,2024)
- **Assistant Professor** Department of Environmental Science CUHP Dharamshala (27 August,2021- Present)

Personal Distinctions

National Eligibility Test, for **Junior Research Fellowship** by UGC-CSIR India Qualified in June 2013,

RANK 83; ROLL NO 109141

National Eligibility Test, for **Lectureship** by UGC-CSIR India Qualified in December 2012, RANK 43; ROLL NO 107509

National Eligibility Test, for **Lectureship** by UGC-CSIR India Qualified in December 2013, RANK 30; ROLL NO 107961

Junior Research Fellow at CSIR-Institute of Himalayan Bioresource Technology, Palampur, India from Jan 2014- Jan 2016

Senior Research Fellow at CSIR-Institute of Himalayan Bioresource Technology, Palampur, India from Jan 2016-Aug 2018

Dr. D.S.Kothari Post Doctoral Fellow at Himachal Pradesh University, Shimla June 2019- Present.

Research Excellence Award 2020 by Institute of Scholars (ISO 9001:2015 Certification) for the work published in Organic Letters - 2-Aminoquinazolin-4(*3H*)-one as an efficient organocatalyst for the synthesis of tertiary amines**.**

Invited Seminars and Invited Conference Presentations

1. **Maheshwar S. Thakur** and Neeraj Kumar. 21st International Conference on Organic Synthesis (ICOS 21), December, **2016**, Indian Institute of Technology Bombay, India.
2. **Maheshwar S. Thakur**, Onkar S. Nayal and Neeraj Kumar. National Conference on Advances in Chemical Science, March**, 2017**, Guru Nanak Dev University, Amritsar, India.
3. **Maheshwar S. Thakur** and S. K. Maurya.Science: Emerging Scenario and Future Challenges-2017, Organized by: Him Science Congress Association, Manali, July **2017**.
4. **Maheshwar S. Thakur** and S. K. Maurya. Science: Emerging Scenario and Future Challenges-2017, Organized by: Him Science Congress Association, NIT Hamirpur, September, **2018**.

Professional Contributions (last 5 years)

- Reviewer of International Journal of Basic and Applied Sciences
- Lifetime member of Him Science Congress Association, Lifetime professional member of Institute of Scholars

Teaching

ENV516 Atmospheric Sciences

ENV404 Energy and Environment

ENV589 Environmental Polymer & Nanoscience

ENV626 Bioresource, Technology and Applications

Thesis Supervision

1. Karishma Thakur, M.Sc. Department of Environmental Science 2023-2025.

University Administration

- IQAC Coordinator, Department of Environmental Science

Publications

1. Divya Thakur, **Maheshwar S. Thakur**, Neha, Ravi Kant Bhatia, Manish Kumar. Wolframite-type copper molybdate nanostructures: a green approach for bacterial inhibition and dye removal. Chemical Papers,2025, https://doi.org/10.1007/s11696-025-04236-9.
2. Divya Thakur, **Maheshwar S. Thakur**, Ravi Kant Bhatia, Manish Kumar. Untangling Antibacterial and Dye Removal Potential of Wolframite-Type Zinc Molybdate Nanostructures Catalysis Letters, 2025, 155 (6), 207.
3. Neha, Manish Kumar, Divya Thakur, Sanjana Gupta, Deepak Dabur, Ravi Kant Bhatia, **Maheshwar S. Thakur.** Fabrication of NiO-ZrO_2 nanoceramics: a prospective nanomaterial for protein harvesting from microbial cells. Applied Nanoscience, 2025, 15 (1), 6.
4. **Maheshwar S. Thakur**, Neha Singh, Arti Sharma, Rohit Rana, A. R. Abdul Syukor, M. Naushad, Sunil Kumar, Manish Kumar, Lakhveer Singh. Metal coordinated macrocyclic complexes in different chemical transformations. **Coordination Chemistry Reviews** 2022, **471,** 214739 (I.F.-24.88)
5. **Maheshwar S. Thakur**, Onkar S. Nayal, Rahul Upadhyay, Neeraj Kumar, Sushil K. Maurya. 2-Aminoquinazolin-4(*3H*)-one as an Organocatalyst for the Synthesis of Tertiary Amines**.** ***Organic Letters*** 2018, **20**: 1359-1362.(I.F- 6.555)
6. **Maheshwar S. Thakur**, Onkar S. Nayal, Vinod Bhatt, Sushila Sharma, Neeraj Kumar. Rapid and Efficient Cascade Synthesis of 2-Amino-4(3 *H*)-quinazolinones over an In Situ-Generated Heterogeneous $CuCO_3$–K_2CO_3 Nanocomposite. ***Asian Journal of Organic Chemistry*** 2016, **5**: 750-754. (I.F-2.788)
7. **Maheshwar S. Thakur**, Onkar S. Nayal, Rohit Rana, Manoranjan Kumar, Sushila Sharma, Neeraj Kumar, Sushil K. Maurya. Unravelling 2-aminoquinazolin-4 (3H)-one as an organocatalyst for the chemoselective reduction of nitroarenes. ***New Journal of Chemistry*** 2018**, 42**: 1373-1378. (I.F-3.069)
8. **Maheshwar S. Thakur**, Onkar S. Nayal, Rohit Rana, Neeraj Kumar, Sushil K. Maurya. An Efficient Metal-Free Mono N-Alkylation of Anilines via Reductive Amination Using Hydrosilanes. ***Europian Journal of Organic Chemistry***, *2018*, **47**: 6729. (I.F-3.29)
9. Onkar S. Nayal, **Maheshwar S. Thakur**, Vinod Bhatt, Manoranjan Kumar, Neeraj Kumar, Bikram Singh, Upendra Sharma. Synthesis of tertiary arylamines: Lewis acid-catalyzed direct reductive N-alkylation of secondary amines with ketones through an alternative pathway. ***Chemical Communications*** 2016, **52**: 9648-9651. (I.F-6.164)
10. Onkar S. Nayal, **Maheshwar S. Thakur**, Manoranjan Kumar, Sushila Sharma, Neeraj Kumar. Tin-Catalyzed Selective Reductive Hydroamination of Alkynes for the Synthesis of Tertiary Amines. ***Advanced Synthesis & Catalysis*** 2016, **358**: 1103-1109. (I.F-5.451)
11. Onkar S. Nayal, **Maheshwar S. Thakur**, Manoranjan Kumar, Sushil K. Maurya. Ligand-free Iron(II)-Catalyzed N-Alkylation of Hindered Secondary Arylamines with Non-activated Secondary and Primary Alcohols *via* a Carbocationic Pathway. ***Advance Synthesis and Catalysis*** 2018**, 360**: 730-737. (I.F-5.451)
12. Manoranjan Kumar, Vinod Bhatt, Onkar S. Nayal, Sushila Sharma, Vishal Kumar, **Maheshwar S. Thakur**, Neeraj Kumar, Rajaram Bal, Bikram Singh, Upendra Sharma. CuI nanoparticles as recyclable heterogeneous catalysts for C–N bond formation reactions. ***Catalysis Science & Technology*** 2017, **7**: 2857-2864. (I.F-5.726)

13. Onkar S. Nayal, **Maheshwar S. Thakur**, Manoranjan Kumar, Shaifali Kang, Rahul Upadhaya, Sushil K. Maurya. Sustainable and Efficient CuI-NPs-Catalyzed Cross-Coupling Approach for the Synthesis of Tertiary 3-Aminopropenoates, Triazoles, and Ciprofloxacin. ***Asian Journal of Organic Chemistry*** 2018, **7**: 776-780. (I.F-2.788)

14. Manoranjan Kumar, Sushila Sharma, Krishana Thakur, Onkar S. Nayal, Vinod Bhatt, **Maheshwar S. Thakur**, Neeraj Kumar, Bikram Singh, Upendra Sharma. Montmorillonite-K10-Catalyzed Microwave-Assisted Direct Amidation of Unactivated Carboxylic Acids with Amines: Maintaining Chiral Integrity of Substrates. ***Asian Journal of Organic Chemistry*** 2017, **6**: 342-346. (I.F-2.788)

15. Sushila Sharma, Manoranjan Kumar, Onkar S. Nayal, **Maheshwar S. Thakur**, Vinod Bhatt, Neeraj Kumar, Bikram Singh. Designing Vasicine-Derived Ligands and Their Application for Ruthenium-Catalyzed Transfer Hydrogenation Reactions in Water: Synthesis of Amines and Alcohols. ***Asian Journal of Organic chemistry*** 2016, **5**: 1471-1479. (I.F-2.788)

16. Sushila Sharma, Manoranjan Kumar, Vinod Bhatt, Onkar S. Nayal, **Maheshwar S. Thakur**, Neeraj Kumar, Bikram Singh. Vasicine from Adhatoda vasica as an organocatalyst for metal-free Henry reaction and reductive heterocyclization of o-nitroacylbenzenes. ***Tetrahedron Letters*** 2016, **57**: 5003-5008. (I.F-2.379)

17. Onkar S. Nayal, **Maheshwar S. Thakur,** Rahul Upadhaya, Sushil K. Maurya. Lewis-Acid-Catalyzed Direct Nucleophilic Substitution Reaction of Alcohols for the Functionalization of Aromatic Amines. ***Chemistry Select*** 2019, **4**, 1371-1374. (I.F-1.716)

18. Atul Soni, Minaxi S Maru, Parth Patel, Jagriti Behal, Deepika Kaushal, Manish Kumar, **Maheshwar S Thakur**, Sunil Kumar. Fe-doped nano-cobalt oxide green catalysts for sulfoxidation and photo degradation. ***Clean Technologies and Environmental Policy***, 1-12.

Book Chapters

19. Divya Thakur, Vandna Thakur, Neha Singh, Manish Kumar, **Maheshwar S Thakur**. Graphene-Based Efficient Photocatalytic Materials for Hydrogen Generation.Towards Sustainable and Green Hydrogen Production by Photocatalysis 2024