



Dr. Maheshwar Singh Thakur
Assistant Professor
Department of Chemistry
St. Bede's College, Shimla



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EDUCATIONAL QUALIFICATIONS: B.Sc., M.Sc, M.Phil, PhD, Post-Doc,
NET-LS and NET-JRF

Sr. No.	Degree	Subject	College/University	Year of Passing
1	B.Sc	Chemistry, Physics, Maths	College of Basic Sciences, C.S.K. H. P. Krishi Vishvavidyalaya Palampur	2010
2	M.Sc.	Chemistry	Department of Chemistry, Himachal Pradesh University Shimla	2012
3	M.Phil	Chemistry	Department of Chemistry, Himachal Pradesh University Shimla	2014
4	Ph.D	Chemistry	CSIR - Institute of Himalayan Bioresource Technology, Palampur [H.P.] [Academy of Scientific and Innovative Research]	2018
5	NET-JRF	Chemical Science	CSIR-UGC	2013
6	NET-LS	Chemical Science	CSIR-UGC	2012
7	Dr. D. S. Kothari Post- Doctoral	Chemical Science	Department of Chemistry, Himachal Pradesh University Shimla	2019- 21



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TOTAL TEACHING EXPERIENCE:

1. Teaching Experience at St. Bede's College: Since 27 August 2021 to Present
2. Teaching undergraduate classes (August 2018 - January 2019) at College of Basic Sciences, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, India.

RESEARCH EXPERIENCE: Major/Minor Project

1. Junior Research Fellow at CSIR-Institute of Himalayan Bioresource Technology, Palampur, India from Jan 2014- Jan 2016
2. Senior Research Fellow at CSIR-Institute of Himalayan Bioresource Technology, Palampur, India from Jan 2016-Aug 2018
3. Research Associate at CSIR - Institute of Himalayan Bioresource Technology, Palampur, India (February 2019-June 2019).
4. Dr. D.S.Kothari Post Doctoral Fellow at Himachal Pradesh University, Shimla, India (21 June 2019- 27 August 2021)

SUBJECTS TAUGHT

UG: Atomic structure, bonding, general organic chemistry & aliphatic hydrocarbons (Chem 101),
Solutions, phase equilibrium, conductance, electrochemistry & organic Chemistry (Chem 201),
Chemical technology & society and business skills for chemistry (Chem 307),
Chemistry-1 (Biotech1C06TH)

PG: Physical Chemistry (Solid State Chemistry)

OTHER RESPONSIBILITIES

Member:

Placement cell/Career Guidance cell, Annual Day & Awards, Research Promotion cell/UGC.

Reviewer of International Journal of Basic and Applied Sciences

Lifetime member of Him Science Congress Association

Lifetime professional member of Institute of Scholars

Member of NGO AMOGH SANKALP



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ACHIEVEMENTS

❖ AWARDS & GRANTS

1. **National Eligibility Test, for Junior Research Fellowship** by UGC-CSIR India Qualified in June 2013, RANK 83; ROLL NO 109141
2. **National Eligibility Test, for Lectureship** by UGC-CSIR India Qualified in December 2012, RANK 43; ROLL NO 107509
3. **National Eligibility Test, for Lectureship** by UGC-CSIR India Qualified in December 2013, RANK 30; ROLL NO 107961
4. **Dr. D.S.Kothari Post Doctoral Fellow Award** June 2019.
5. **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.

❖ SPORTS ACTIVITIES

1. Zonal Volleyball tournament from CSIR-IHBT Palampur 2015 and 2018.
2. Inter Agriculture University in Volleyball from CSKHPKV Palampur in 2008-09
3. Intervarsity in Volleyball from CSKHPKV Palampur in 2007-08
4. Regional level Volleyball tournaments during school

ACHIEVEMENTS

❖ PUBLICATIONS

➤ Paper Publications:17

1. **Maheshwar S. Thakur**, Onkar S. Nayal, Rahul Upadhyay, Neeraj Kumar, Sushil K. Maurya. 2-Aminoquinazolin-4(3H)-one as an efficient organocatalyst for the synthesis of tertiary amines. Organic Letters 2018, 20: 1359-1362.(I.F- 6.555)
2. **Maheshwar S. Thakur**, Onkar S. Nayal, Vinod Bhatt, Sushila Sharma, Neeraj Kumar. Rapid and efficient cascade synthesis of 2-amino-4(3H)-quinazolinones over in situ generated heterogenous $\text{CuCO}_3\text{-K}_2\text{CO}_3$



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- nanocomposite. *Asian Journal of Organic Chemistry* 2016, 5: 750-754. (I.F-2.788)
3. **Maheshwar S. Thakur**, Onkar S. Nayal, Rohit Rana, Manoranjan Kumar, Sushila Sharma, Neeraj Kumar, Sushil K. Maurya. Unraveling 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)
 4. **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. *European Journal of Organic Chemistry*, 2018, 47: 6729. (I.F-3.29)
 5. 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)
 6. 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)
 7. 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)
 8. 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 a recyclable heterogeneous catalyst for C-N bond formation reactions. *Catalysis Science & Technology* 2017, 7: 2857-2864. (I.F-5.726)
 9. 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)



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10. 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)
11. Sushila Sharma, Manoranjan Kumar, Onkar S. Nayal, **Maheshwar S. Thakur**, Vinod Bhatt, Neeraj Kumar, Bikram Singh. Designing of vasicine derived ligands and their application for ruthenium catalyzed aqueous phase transfer hydrogenation reactions: Synthesis of amines and alcohols. *Asian Journal of Organic chemistry* 2016, 5: 1471-1479. (I.F-2.788)
12. Sushila Sharma, Manoranjan Kumar, Vinod Bhatt, Onkar S. Nayal, **Maheshwar S. Thakur**, Neeraj Kumar, Bikram Singh. Vasicine as an organocatalyst for metal-free Henry reaction and reductive heterocyclization of o-nitroacylbenzenes. *Tetrahedron Letters* 2016, 57: 5003-5008. (I.F-2.379)
13. 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)
14. **Maheshwar S. Thakur**, Onkar S. Nayal, Vinod Bhatt, Sushila Sharma, Neeraj Kumar. Synthesis of 4(3H)-quinazolinones by using CuCO₃-K₂CO₃ nanocomposite. *SYNFACTS*, 2016, 12 (09) 0991. DOI: 10.1055/s-0035-1562745; Reg-No.: Y10416SF, Contributors Yasuhiro Uozumi and Shun Ichii
15. **Maheshwar S. Thakur**, Onkar S. Nayal, Vinod Bhatt, Sushila Sharma, Neeraj Kumar. Rapid and efficient cascade synthesis of 2-amino-4(3H)-quinazolinones over in situ generated heterogenous CuCO₃-K₂CO₃ nanocomposite. *Chem Inform (No 43-158)* 2016, 43, 47. DOI: 10.1002/chin.201643158
16. 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. *Chem Inform (No 50-059)* 2016, 50, 47. DOI: 10.1002/chin. 201650059.



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17. 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. Chem Inform (No 32-040) 2016, 32, 47. DOI: 10.1002/chin. 201632040

❖ **Participation in Conferences and Seminars: 4**

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.