

Dr. Sharadkumar C. Karad

Designation : Assistant Professor
Specialization : Organic Chemistry
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Educational Qualifications:

Ph.D. in Organic Chemistry, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India, 2013 – 2017

M.Sc. in Organic Chemistry, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India, 2010 – 2012

B.Sc. in Chemistry, M. B. Patel Science College, Anand, Sardar Patel University, Gujarat, India, 2007 – 2010

Academic Experience:

Assistant Professor in Department of Chemistry, Marwadi University, Rajkot, 10th August 2017 to 3rd January 2022.

Assistant Professor in P.G Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar 4th January 2022 to till date

Research Area:

Synthetic Organic/Medicinal Chemistry,
Transition-metal-catalyzed C—H bond functionalization,
Multicomponent Reactions,
New synthetic methods and Diversity Oriented Synthesis,
Microwave-assisted transition-metal-catalyzed cross-couplings.

Expertise:

Reaction Mechanism, Heterocyclic Chemistry, Stereochemistry

No. of Publication

Research Articles: 16

Book: 05

List of publications in international peer reviewed Journals:

1. "Design, synthesis and characterization of fluoro substituted novel pyrazolylpyrazolines scaffold and their pharmacological screening" **Sharad C. Karad**, Vishal B. Purohit, Dipak K. Raval, *European Journal of Medicinal Chemistry*, 2014, 84, 51-58, Impact Factor (7.088)
2. "Green synthesis and pharmacological screening of polyhydroquinoline derivatives bearing a fluorinated 5-aryloxy pyrazole nucleus" **Sharad C. Karad**, Vishal B. Purohit, Dipak K. Raval, Piyush N. Kalaria, Jemin R. Avalani, Parth Thakor and Vasudev R. Thakkar, *RSC Advances*, 2015, 05, 16000-16009, Impact Factor (4.036)
3. "Novel morpholinoquinoline nucleus clubbed with pyrazoline scaffolds: Synthesis, antibacterial, antitubercular and antimalarial activities" **Sharad C. Karad**, Vishal B. Purohit, Dipak K. Raval, Piyush N. Kalaria, Jemin R. Avalani, Parth Thakor and Vasudev R. Thakkar, *European Journal of Medicinal Chemistry*, 2016, 112, 270-279, Impact Factor (7.088)
4. "Design, synthesis, and characterization of a fluoro substituted novel pyrazole nucleus clubbed with 1,3,4-oxadiazole scaffolds and their biological applications" **Sharad C. Karad**, Vishal B. Purohit, Jemin R. Avalani, Nirav H. Sapariya and Dipak K. Raval, *RSC Advances*, 2016, 06, 41532-41541, Impact Factor (4.036)
5. "Synthesis and biological screening of novel 2-morpholinoquinoline nucleus clubbed with 1,2,4-oxadiazole motifs" **Sharad C. Karad**, Vishal B. Purohit, Rahul P. Thummar, Beena K. Vaghasiya, Ronak D. Kamani, Parth Thakor, Vasudev R. Thakkar, Sampark S. Thakkar, Arabinda Ray and Dipak K. Raval, *European Journal of Medicinal Chemistry*, 2017, 126, 894-909, Impact Factor (7.088)
6. "Cu(N-heterocyclic carbene)chloride: an efficient catalyst for multicomponent click reaction for the synthesis of 1,2,3-triazoles in water at room temperature" Vishal B. Purohit, **Sharad C. Karad**, Kirit H. Patel and Dipak K. Raval, *RSC Advances*, 2014, 04, 46002-46007, Impact Factor (4.036)
7. "Palladium N-heterocyclic carbene catalyzed regioselective C-H halogenation of 1-aryl-3-methyl-1H-pyrazol-5(4H)-ones using N-halosuccinimides (NXS)", Vishal B. Purohit, **Sharad C. Karad**, Kirit H. Patel and Dipak K. Raval, *Catalysis Science & Technology*, 2015, 05, 3113-3118, Impact Factor (6.177)
8. "Palladium N-heterocyclic carbene catalyzed regioselective thiolation of 1-aryl-3-methyl-1H-pyrazol-5(4H)-ones using aryl thiols.", Vishal B. Purohit, **Sharad C. Karad**, Kirit H. Patel and Dipak K. Raval, *Tetrahedron*, 2016, 72, 1114-1119, Impact Factor (2.388)

9. "Palladium N-heterocyclic carbene catalyzed expected and unexpected C–C and C–N functionalization reactions of 1-aryl-3-methyl-1H-pyrazol-5(4H)-ones" Vishal B. Purohit, **Sharad C. Karad**, Kirit H. Patel and Dipak K. Raval, *RSC Advances*, 2016, 6, 111139-111143, Impact Factor (4.036)
10. "A review on diverse heterocyclic compounds as a privileged scaffold in antimalarial drug discovery" Piyush N. Kalaria, **Sharad C. Karad** and Dipak K. Raval, *European Journal of Medicinal Chemistry*, 2018, 158, 917-936, Impact Factor (7.088)
11. "Microwave-Assisted Palladium-catalyzed double C-H Activation: One-pot Synthesis of Benzo[a]imidazo[5,1,2-cd]indolizines from 2-Phenylimidazo[1,2-a]pyridines and 1,2-Diiodobenzen" Ronak V. Prajapati, Vaibhav D. Prajapati, Vishal B. Purohit, Jemin R. Avalani, Ronak D. Kamani, Nirav H. Sapariya, **Sharad C. Karad**, and Dipak K. Raval, *Chemistry Select*, 2022, 7(24), e202201436, Impact Factor (2.307)
12. "Quantification of panel of most potent antipsychotic medicines by high throughput UPLC method" Hetal Jebaliya, Anamik Shah, **Sharad C. Karad**, Shraddha Nakum, Batuk Dabhi, *Results in Chemistry*, 2022, 04, 100427, Impact Factor (2.30)
13. "N-Chlorosuccinimide Mediated Regioselective Sulfenylation and Halogenation of 4H-Pyrido[1,2-a]pyrimidin-4-ones at Room Temperature" Vaibhav D. Prajapati, Ronak V. Prajapati, Vishal B. Purohit, Jemin R. Avalani, Nirav H. Sapariya, Ronak D. Kamani, **Sharad C. Karad**, and Dipak K. Raval, *Chemistry Select*, 2022, 07(47), e202204126, Impact Factor (2.307)
14. "C–H Functionalization Reactions of 1-Aryl-5-pyrazolones" Vishal B. Purohit, Ronak V. Prajapati, Vaibhav D. Prajapati, **Sharad C. Karad**, Nirav H. Sapariya, Jemin R. Avalani, and Dipak K. Raval, *European Journal of Organic Chemistry*, 2022, 45, e202201111, Impact Factor (3.261)
15. "N-Chlorosuccinimide Mediated Direct C–H Thiocyanation of 1-Aryl-5-pyrazolones at Room Temperature" Ronak V. Prajapati, Vaibhav D. Prajapati, Vishal B. Purohit, Luis Andre Baptista, Jemin R. Avalani, Nirav H. Sapariya, **Sharad C. Karad**, Dipak K. Raval, *Chemistry Select*, 2023, 45, e202201111, Impact Factor (2.307)
16. "Transition-metal-free direct arylselenation of 1-aryl-3-methyl pyrazolones using diselenides" Vaibhav D. Prajapati, Ronak V. Prajapati, Vishal B. Purohit, Luis Andre Baptista, Jemin R. Avalani, Nirav H. Sapariya, **Sharad C. Karad**, and Dipak K. Raval, *Tetrahedron*, 2023, 151, 133783, Impact Factor (2.100)

Book Published:

1. A lecture series on heterocyclic Chemistry (Diazines, Traizenes, Tetrazines, Pyrrole, furan thiophene and Indole). **Sharadkumar C Karad**, Vishalkumar B. Purohit, Niravkumar H. Sapariya, LAP LAMBERT Academic Publishing. ISBN: 978-613-9-89140-5 (2018).
2. A lecture series on heterocyclic Chemistry (Quinoline, Isoquinoline, Benzodiazines, Benzo[b]furans and Benzo[b]thiophenes.), Vishalkumar B. Purohit, **Sharadkumar C Karad**, Niravkumar H. Sapariya, LAP LAMBERT Academic Publishing. ISBN: 978-613-9-88076-8 (2018).
3. Objective Chemistry, Niravkumar H. Sapariya, **Sharadkumar C Karad**, Vishalkumar B. Purohit, LAP LAMBERT Academic Publishing. ISBN: 978-613-9-86663-2 (2018).
4. Chemistry Practical Inorganic Qualitative Analysis (For Under Graduate Students) Mayank J. Mamtora, **Sharadkumar C. Karad**, Jayantilal S. Makasana, LAP LAMBERT Academic Publishing, ISBN: 978-613-9-46320-6 (2019).
5. Chemistry Practical Organic Qualitative Analysis (For Under Graduate Student), Mayank J. Mamtora, **Sharadkumar C. Karad**, Chandankumar T. Pashavan, LAP LAMBERT Academic Publishing, ISBN: 978-620-0-28298-9 (2019).

List of Minor/ Major projects carried out: Nil**Honors:****Fellowships:**

2014 to 2015 Selected as a Research Fellow (JRF) under the scheme of UGC BSR, New Delhi

2016 to 2018 Selected as a Research Fellow (SRF) under the scheme of UGC BSR, New Delhi

Awards:

2012 Awarded with Dr M. R. Patel gold plated medal in M. Sc. organic chemistry.