



Dr. Shivendra Singh
Assistant Professor, Organic Chemistry, SOS

Education Qualification:

Phd (Organic Chemistry), IIT-Indore
M.Sc. (Industrial Chemistry), Jiwaji University Gwalior
B.Sc. (Chemistry), Lucknow University

Research Interest:

Organic Synthesis and Catalysis

Publications:

1. **Singh S.**, Srivastava A., Samanta S. (2012), Rapid access of 2,3,4-trisubstituted-2,3,4,9-tetrahydrothiopyrano[2,3-*b*]indole derivatives via one-pot three component reaction using organocatalysis, *Tetrahedron Lett.*, 53, 6087-6090 (DOI: 10.1016/j.tetlet.2012.08.125).
2. **Singh S.**, Srivastava A., Mobin S. M., Samanta S. (2015), A remarkable solvent effect on the reaction of 4-hydroxycoumarin with (*E*)-3-aryl-2-nitroprop-2-enol: Facile synthesis of highly substituted furo/pyrano[3,2-*c*]chromenes, *RSC Adv.*, 5, 5010-5014 (DOI: 10.1039/c4ra10610e).
3. **Singh S.**, Samanta S. (2015), Efficient one-pot access to 2,9-dihydrothiopyrano[2,3-*b*]indole scaffolds showing large Stokes Shifts, *Chin. J. Chem.*, 2015, 33, 1244-1250 (DOI: 10.1002/cjoc.201500572).
4. **Singh S.**, Chauhan S. S., Sharma N. K., Dutt S., Ameta K. L. (2020), Diverse route to access fused-indole: Complex architecture from simple molecule, *Mini-review in Organic Chemistry*, 18, 1-22 (DOI: 10.2174/1570193X17999200521101).

5. Chhakra S., Malhotra G. S., **Singh S.**, Chauhan S. S. (2020), SYNTHESIS OF NOVEL SUBSTITUTED PYRAZOLES AND ISOXAZOLES CONTAINING 1,4-BENZODI-OXANE SULFONYL MOIETY, *Rasayan J. Chemistry* 13, 3 1959-1963. (DOI: 10.31788/RJC.2020.1335863).
6. Srivastava A., **Singh S.**, Samanta S. (2013), (\pm)-CSA catalyzed Friedel-Crafts alkylation of indoles with 3-ethoxycarbonyl-3-hydroxyisoindolin-1-one: An easy access of 3-ethoxy carbonyl-3-indolyloisoindolin-1-ones bearing a quaternary α -amino acid moiety, *Tetrahedron Lett.*, 54, 1444-1448 (DOI: 10.1016/j.tetlet.2013.01.010).
7. Jaiswal P. K., Biswas S., **Singh S.**, Pathak B., Mobin S. M., Samanta S. (2013), Stereoselective synthesis of highly functionalized tetrahydro-carbazoles through a domino Michael-Henry reaction: An easy access to four contiguous chiral centers, *RSC Adv.*, 3, 10644-10649 (DOI: 10.1039/C3RA41409D).
8. Jaiswal P. K., Biswas S., **Singh S.**, Samanta S. (2013), Organocatalytic highly efficient approach to the direct synthesis of substituted carbazoles in water, *Org. Biomol. Chem.*, 11, 8410-8418 (DOI: 10.1039/C3OB42034E).
9. Biswas S., Jaiswal P. K., **Singh S.**, Mobin S. M., Samanta S. (2013), L-Proline catalyzed stereoselective synthesis of (*E*)-methyl- α -indol-2-yl- β -aryl/alkyl acrylates: Easy access to substituted carbazoles, γ -carbolines and prenostodione, *Org. Biomol. Chem.*, 11, 7084-7087 (DOI: 10.1039/C3OB41573B).
10. Srivastava A., Biswas S., **Singh S.**, Mobin S. M., Samanta S. (2015), Organocatalyzed Michael addition on arylmethylidenemalonates involving 4-(2-nitrophenyl) acetoacetate: Diversity oriented access to 8,9-dihydropyrido[1,2-*a*]indol-6(7*H*)-one and salicylate scaffolds, *RSC Adv.*, 5, 26891-26896 (DOI: 10.1039/c5ra01430a).

Industry Experience:

1. Assistant Analytical Chemist at Affy Pharma Pvt. Ltd. , Baddi (HP)

Courses Taught:

1. Organic Chemistry (UG & PG)
2. Spectroscopy (UG & PG)
3. Analytical Chemistry (UG)
4. Physical Chemistry (UG)
5. Engineering Chemistry (UG)
6. Environmental Science (UG)
7. Reagents and Reactions (UG)
8. Advance Spectroscopic Techniques (PhD)

Conference & Seminar:

1. Participated in “[Frontier Lecture Series in Chemistry](#)” organized by Discipline of Chemistry, IIT Indore, in association with JNCASR Bangalore, January 30-31, 2014.
2. Participated in “[Laboratory Health and Safety Workshop](#)” organized by Royal Society of Chemistry (RSC) at IIT Indore, Indore, November 4, 2014.
3. Participated in “[Research Connect Program](#)” organized by Wiley in collaboration with IIT Indore at IIT Indore, Indore, October 26, 2015.
4. Participated in the one week workshop on “[Introduction to Principles of Green Chemistry](#)” organized by IIT Indore in association with Illinois Wesleyan University, USA under Global Initiative on Academic Network (GIAN) sponsored by MHRD, India, June 17-24, 2016.
5. Participated in the one week GIAN-MHRD course on “[Chemical, Biochemical and Environmental Issues Related to Cancer and Solutions Addressing Problems](#)” organized by NIT Hamirpur in association with Lawrence Berkeley National Laboratory, Berkeley, USA from September 11-16, 2017.
6. Participated in one week MHRD-GIAN course on “[Emerging Electrical Energy Storage Applications](#)” organized by NIT Hamirpur in association with Arizona State University, USA from December 11-16, 2017.
7. Participated in Regional Workshop on “[Research Based Pedagogical Tools](#)” funded by DST, DBT and organized by Centre of Excellence in Science and Mathematics Education (CoESME), IISER Pune held in Oriental University Indore from June 26-28, 2019.
8. Participated in “[UGC Workshop on Academic Integrity Awareness](#)” organized by Maharaja Sayajirao University of Baroda on August 16, 2019.
9. Participated in “[NAAC awareness meeting on QIF-4](#)” organized by Barkatullah University Bhopal on October 05, 2019.
10. Participated in “[NAAC awareness meeting on QIF-7](#)” organized by Barkatullah University Bhopal on October 24, 2019.
11. Participated in a webinar on “[SARS CoV2: An overview on COV-19](#)” organized by Department of Chemistry, SLAS, Mody University of Science and Technology, Lakshargarh, Rajasthan on June 06, 2020.

Awards & Honors:

1. UGC-NET Junior Research Fellow (JRF) Chemical Sciences in Dec. 2010.

2. UGC-NET Senior Research Fellow (SRF) Chemical Sciences in Aug. 2013.
3. NPDF (National Post-Doctoral Fellowship) from Science and Engineering Research Board (SERB), Department of Science and Technology (DST), India in July 2017.
4. Contributed as a Judge in “Smart India Hackathon-2019” organized & sponsored by MHRD, India at nodal centre Oriental University Indore in March 2-3, 2019.
5. Convenor of one-day Workshop on “Women in Research-The Opportunities Ahead” Organized by IETE sub-centre Indore and hosted by department of Basic Sciences on March 11, 2019 at Oriental University, Indore (M. P.).
6. Bentham Ambassador in India from 2019.
7. Convenor of International Seminar “Smart Cities- Smart healthcare and Green Energy” July 30-31, 2019 (The chief guest was Prof. Saraju P. Mohanty, from Department of Computer Science & Engineering, University of North Texas, USA).

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