<u>CURRICULUM VITAE</u>

Udaipur, Rajasthan, India.			

Professional career:

* Assistant Professor, Mohanlal Sukhadia University, Udaipur

		June 2018- Till date
*	DST-INSPIRE Faculty,	June 2016- June 2018
	Mohanlal Sukhadia University, Udaipur, Rajasthan	
*	DST-INSPIRE Faculty,	
	Guru Nanak Dev University, Amritsar, Punjab:	May 2014- May 2016
*	Postdoctoral Research Fellow at Pohang,	
	University of Science and Technology (POSTECH):	March 2012- March 2014

Research Career:

*	Senior Research Fellow (CSIR-CDRI):	July 2009-Feb 2012
*	Junior Research Fellow (CSIR-CDRI):	July 2007-Jun 2009

Academic qualifications:

- > Ph.D. (Medicinal Chemistry, 2007-2012): Jawaharlal Nehru University, New Delhi, India.
- M.Sc. (Organic Chemistry, 2005-2007, First division: 74%): Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
- B.Sc. (Chemistry, Mathematics, Physics, 2002-2005, First division: 64%): University of Kota, Kota, Rajasthan, India.

Teaching experience:

> Teaching organic chemistry in UG and PG classes since 2014.

Awards:

FAST Track Scheme for Young Scientists Start-Up Research Grant2016-2019

- DST-INSPIRE Faculty Award for Independent Research work in India: 2014-2019
 Two CSIR-CDRI incentive awards: 2011-2012
- National Eligibility Test (NET) for the eligibility of lectureship in India: 2007
- Senior Research Fellowship (CSIR, India): 2009-2012
- Junior Research Fellowship (CSIR, India): 2007-2009
- GATE-IIT Kanpur (Chemical Sciences): 2007 (All India Rank-314)

Research Interests:

Development and utilization of new multi-component reactions, continuous flow synthesis, metal catalyzed transformation, synthesis of new bioactive molecules.

Major Research Projects:

- Multi-disciplinary research in medicinal and organic chemistry (35 Lakh; INSPIRE Project, ongoing since May 2014-May 2019)
- > Young scientist award from DST (23 Lakh; INSPIRE Project, May 2015-May 2017)

Publication Statistics:

Total publications:	28
Total Impact Factor	168
Average Impact Factor	5.9
Sum of the Times Cited*	800+
h-index*	14

*Source: <u>https://scholar.google.co.in/citations?user=c-oFx5UAAAAJ&hl=en</u>

Complete List of Publications:

Independent Career

- Karandeep Singh, Bhanwar Kumar Malviya, Tapta Kanchan Roy, Venus Singh Mithu, Vimal K. Bhardwaj, Ved Prakash Verma, Swapandeep Singh Chimni, and <u>Siddharth</u> <u>Sharma</u>* Catalyst-Controlled Structural Divergence: Selective Intramolecular 7-endodig and 6-exo-dig Post-Ugi Cyclization for the Synthesis of Benzoxazepinones and Benzoxazinones J. Org. Chem., 2018, 83, 57-68 (Impact Factor = 4.8).
- Karandeep Singh, Amanpreet Kaur, Venus Singh Mithu, and <u>Siddharth Sharma</u>,* Metal-Free Organocatalytic Oxidative Ugi Reaction Promoted by Hypervalent Iodine, J. Org. Chem. (ACS publications), 2017, 82, 5285-5293 (Impact Factor = 4.8).

- Karandeep Singh, and <u>Siddharth Sharma</u>,* An isocyanide based multi-component reaction under catalyst- and solvent-free conditions for the synthesis of unsymmetrical thioureas, Tetrahedron Letters (Elsevier publications), 2017, 58, 197-201 (Impact Factor = 2.5).
- Karandeep Singh, Ajay K. Singh, Devendra Singh, Rakhi Singh, and <u>Siddharth Sharma</u>* Pd/Fe₃O₄ supported on nitrogen doped reduced graphene oxide for room temperature isocyanide insertion reactions, Catalysis Science and Technology (Royal Society of Chemistry Publications), 2016, 6, 3723 - 3726 (Impact Factor = 5.6).
- <u>Siddharth Sharma</u>,* and Abhilasha Jain. Ligand free palladium-assisted insertion of isocyanides to urea derivatives for cascade synthesis of phenylamino-substituted quinazolinones. Tetrahedron letters (Elsevier publications), 2014, 55, 6051, (Impact Factor = 2.5).

As Post-doctoral Fellow

- <u>Siddharth Sharma</u>, Ram Awatar Maurya, Kyoung Ik Min, Guan-Young Jeong and Dong-Pyo Kim.* Odorless Isocyanide Chemistry: Integrated Microfluidic System for Multistep Reaction Sequence, Angewandte Chemie International Edition (Willey publications) 2013, 52, 7564-7568, Selected as cover image article, (Impact Factor = 11.6).
- <u>Siddharth Sharma</u>, K. C. Basavaraju, Ajay K. Singh, and Dong-Pyo Kim.* Continuous Recycling of Homogeneous Pd/Cu Catalysts for Cross-Coupling Reactions. Organic Letters (American Chemical Society) 2014, 16, 33974, (Impact Factor = 6.3).
- Siddharth Sharma, Ajay K. Singh, Devendra K. Singh and Dong-Pyo Kim.* Chemical fixation of carbon dioxide by copper catalyzed multicomponent reactions for oxazolidinedione syntheses. Green Chemistry (Royal Society of Chemistry Publications), 2015, 17, 1404, (Impact Factor = 8.0).
- 9. K.C Basavaraju, <u>Siddharth Sharma</u>, Ram Awatar Maurya, and Dong-Pyo Kim.* A Safe Approach for Toxic OsO₄ Heterogeneous Catalytic Process in a Nanobrush Polymer Microreactor, Angewandte Chemie International Edition (Willey publications), 2013, 52, 6735-6738, Selected as cover image article, (Impact Factor = 11.6).
- Guanyoung Jeong, Ajay K. Singh, <u>Siddharth Sharma</u>, Ki Won Gyak, Ram Awatar Maurya and Dong-Pyo kim,* One-flow Syntheses of Diverse Heterocyclic Furan Chemicals Directly from Fructose via Tandem Transformation Platform. Nature Asia Material (Nature Publishing Group), 2015, 7, e173 (Impact Factor = 9.9).
- Ajay K. Singh, Seungwook Jang, Jae Yul Kim, <u>Siddharth Sharma</u>, K.C Basavaraju, Min-Gyu Kim, Kyung-Rok Kim, Jae Sung Lee, Hong H. Lee, and Dong-Pyo Kim,* One-Pot

Defunctionalization of Lignin-Derived Compounds by Dual-Functional Pd₅₀Ag₅₀/Fe₃O₄/N-rGO Catalyst. **ACS Catal.** (American Chemical Society), 2015, 5, 6964 (**Impact Factor = 9.9**).

- Dong-Hyeon Ko, Wurong Ren, Jin-Ho Kim, Jun Wang, Hao Wang, <u>Siddharth Sharma</u>, Marco Faustini, Dong-Pyo Kim, Superamphiphobic silicon nano wire embedded micro system and in contact flow performance of gas and liquid streams. ACS Nano (American Chemical Society), 2016, 1156-1162 (Impact Factor = 13.9).
- K.C Basavaraju, <u>Siddharth Sharma</u>, Ajay K. Singh, and Dong-Pyo Kim.* Chitosan-Microreactor: A Versatile Platform for Heterogeneous Organic Synthesis in Microfluidics. Chem. Sus. Chem. (Willey publications), 2014, 7, 1864, Selected as cover image article, (Impact Factor = 7.6).
- 14. Ajay K. Singh, K.C Basavaraju, <u>Siddharth Sharma</u>, Seungwook Jang, Chan Pil Park and Dong-Pyo Kim.* Eco-efficient preparation of N-doped graphene equivalent and its application to metal free selective oxidation reaction Green Chemistry, (Royal Society of Chemistry Publications), 2014, 16, 3024-3030, Selected as cover image article, (Impact Factor = 8.0).
- 15. Wurong Ren, Jayakumar Perumal, Jun Wang, Hao Wang, <u>Siddharth Sharma</u> and Dong-Pyo Kim,* Whole ceramic-like microreactors from inorganic polymers for high temperature or/and high pressure chemical syntheses, Lab on a Chip (Royal Society of Chemistry Publications), 2014, 14, 779-786, (Impact Factor = 5.7).

As Ph. D. Scholar

- Atul Kumar,* <u>Siddharth Sharma</u>. A grinding-induced catalyst- and solvent-free synthesis of highly functionalized 1,4-dihydropyridines via a domino multicomponent reaction. Green Chemistry (Royal Society of Chemistry Publications), 2011, 13, 2017, (Impact Factor = 8.0).
- Atul Kumar,* <u>Siddharth Sharma</u>, Lalit P. Gupta, Pervez Ahmad, Swayam Prakash Srivastava, Neha Rahuja, A.K. Tamrakar, Arvind Kumar Srivastava. Synthesis of propiophenone derivatives as new class of antidiabetic agents reducing body weight in db/db mice, Bioorganic & Medicinal Chemistry (Elsevier publications), 2012, 20, 2172, (Impact Factor = 3.0).
- 18. Atul Kumar,* <u>Siddharth Sharma</u>, Ram Awatar Maurya. Single nucleotide catalyzed biomimetic reductive amination. Advanced synthesis and catalysis (Willey publications),

2010, 352, 2227, Reproduced by the "Nature India" as a Research highlight, (Impact Factor = 5.5).

- Atul Kumar,* <u>Siddharth Sharma</u>, Vishwa Deepak Tripathi, Ram Awatar Maurya, Swayam Prakash Srivastava, Gitika Bhatia, A.K. Tamrakar, Arvind Kumar Srivastava. Design and synthesis of 2,4-disubstituted polyhydroquinolines as prospective antihyperglycemic and lipid modulating agents. Bioorganic and Medicinal Chemistry (Elsevier publications), 2010, 18, 4138, Reproduced by the "Nature India" as a Research highlight, (Impact Factor = 3.0).
- 20. Atul Kumar,* <u>Siddharth Sharma</u>, Ram Awatar Maurya and Jayant Sarkar. Diversity Oriented Synthesis of Benzoxanthene and Benzochromene Libraries via One-Pot, Three-Component Reactions and Their Anti-proliferative Activity. Journal of Combinatorial Chemistry (American Chemical Society), 12, 2010, 20, (Impact Factor = 3.4).
- Atul Kumar,* <u>Siddharth Sharma</u>, Vishwadeepak Tripathi, Suman Srivastava. Synthesis of chalcones and flavanone from Juia-Kocienski olefination. Tetrahedron (Elsevier publications), 2010, 66, 9445, (Impact Factor = 2.9).
- Atul Kumar,* <u>Siddharth Sharma</u>, Ram Awatar Maurya. A novel multi-component reaction of indole, formaldehyde, and tertiary aromatic amines. Tetrahedron letters, 2009, 50, 5937, (Impact Factor = 2.4).
- 23. Vikas Verma, Vikas Sharma, Vishal Singh, <u>Siddharth Sharma</u>, Ajay Kumar Bishnoi, Vishal Chandra, J.P. Maikhuri, Anila Dwivedi, Atul Kumar, Gopal Gupta.* Designed modulation of sex steroid signaling inhibits telomerase activity and proliferation of human prostate cancer cells. Toxicology and Applied Pharmacology (Elsevier publications), 2014, 280 (2), 323-334, (Impact Factor = 4.1).
- Atul Kumar,* <u>Siddharth Sharma</u>, Ram Awatar Maurya. Bienzymatic synthesis of benzothia/(oxa)zole in aqueous medium. Tetrahedron Letters (Elsevier publications), 2010, 48, 6224, (Impact Factor = 2.4).
- 25. Atul Kumar,* Ram Awatar Maurya, <u>Siddharth Sharma</u>, A. B Singh, Akhilesh Tamarkar, Arvind Kumar Srivastava. Design and synthesis of 3,5-diarylisoxazole derivatives as novel class of anti-hyperglycemic and lipid lowering agents. Bioorganic and Medicinal Chemistry, 2009, 17, 5285, (Impact Factor = 3.0).
- 26. Atul Kumar,* Ram Awatar Maurya, <u>Siddharth Sharma</u>, Mukesh Kumar, Gitika Bhatia. Synthesis and biological evaluation of N-aryl-1,4-dihydropyridines as novel antidyslipidemic and antioxidant agents. European Journal of Medicinal Chemistry (Elsevier publications), 2010, 45, 501, (Impact Factor = 3.1).

- Atul Kumar,* Ram Awatar Maurya, <u>Siddharth Sharma</u>. Oxidative aromatization of 1,4dihydropyridines and pyrazolines using HbA-H₂O₂: an efficient biomimetic catalyst system providing metabolites of drug candidates. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4432, (Impact Factor = 2.6).
- Atul Kumar,* Ram Awatar Maurya, <u>Siddharth Sharma</u>, Pervez Ahmad, A.B. Singh, Gitika Bhatia, Arvind K. Srivastava. Pyranocoumarins: A new class of anti-hyperglycemic and anti-dyslipidemic agents. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6447, (Impact Factor = 2.6).

Invited Talks:

- 1. Isocyanide Insertion Chemistry: From Flask to Flow, **FCASI-2017**, at Rajasthan University, Jaipur, Rajsthan, India
- Continuous Flow Chemistry: A New Paradigm in Drug Discovery Process, "An international Seminar on latest Developments in Drug Discovery and Development and their economic utilization as per global perspective" on 25-27 Sept 2014 at B. R. Nahata College of Pharmacy, Mandsaur, MP.
- Isocyanide Insertion Chemistry, "Contemporary Facets in Organic Synthesis (CFOS 2017)", during 22-24 December, 2017 at Department of Chemistry, Indian Institute of Technology Roorkee.

Symposium and Conferences:

- Atul Kumar and <u>Siddharth Sharma</u>. Design and synthesis of 3,5-diarylisoxazole derivatives as novel class of anti-hyperglycemic and lipid lowering agents. 3rd International Symposium on Current Trends in Drug Discovery Research 2010 (CTDDR 2010), at Central Drug Research Institute Lucknow on 17th-21th Feb 2010 (Poster presenter). Abstract published in special issue of Medicinal Chemistry Research, 2010, Vol. 15 (No. 1/6), page 202-203. (Poster presenter)
- Atul Kumar and <u>Siddharth Sharma</u>. 2-(Benzo[d]thiazol-2-ylsulfonyl)-1-phenylethanones: New Reagents for Julia-Kocienski Olefination. VIth JNOST International Conference for Research Scholars at University of Hyderabad, Hyderabad on 8th-13th February 2011. (Poster presenter)
- Atul Kumar and <u>Siddharth Sharma</u>. Pentamidine-Quinazolinone Hybrids as Potent Antileishmanial Agents. 3rd CDRI-NIPER Raebareli National Conference on Recent Trends in Medicinal Chemistry at Central Drug Research Institute Lucknow on 13th-15th March 2011. (Poster presenter)

- Siddharth Sharma. Continuous Flow Synthesis, Separation & Utilization of Foul Isocyanides for Multi-component rection in Microreactor. (WCCE9 & APCChe 2013) 9th World Congress of Chemical Engineers. Coex, Seoul South Korea on 18th-23rd August 2013. (Oral Presenter)
- <u>Siddharth Sharma</u>. Flow Chemistry of Isocyanides: An Approach Towards Better Process.
 67th Annual session of Indian Institute of Chemical engineers (IIChE) (CHEMCON 2014) on December27-30, 2014 at Panjab University Chandigarh. (Oral Presenter)
- <u>Siddharth Sharma.</u> Homogeneous catalyst recycling: a continuous flow approach for metal catalyzed reaction. 21st ISCB International Conference (ISCBC-2015), Current Trends in Drug Discovery and Developments 25-28th February, 2015 at Central Drug Research Institute, Lucknow. (Oral Presenter)
- 21st Conference of National Magnetic Resonance Society, India from 6-9th Mar 2015 at Guru Nanak Dev University (GNDU), Amritsar. (Attended)

Reviewer:

Organic Letters, The Journal of Organic Chemistry (ACS Publications), Chemical Communications (RSC Publications), Research on Chemical Intermediates (Springer Publications).

Personal details:

Gender	Male
Marital status	Married
Nationality	Indian
Date of birth	March 19, 1985

Siddharth Sharma, PhD