

Curriculum Vitae

Deepika Choudhary
(PhD, Chemistry)

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Academic Experience

Aug 2014 - Assistant Professor, Department of Chemistry, University of Rajasthan, Jaipur
March 2014-Aug 2014 Lecturer, Chemistry, Technical Education Department, Rajasthan

Research Experience

Aug 2014- Assistant Professor, Department of Chemistry, University of Rajasthan, Jaipur.
Basic research in Organic Synthesis.
Dec 2012-March 2014 Junior Research Fellow, Department of Chemistry, University of Rajasthan, Jaipur.
May 2009-June 2009 Summer Trainee, Bhabha Atomic Research Institute, Mumbai.

Education

2013-2018	PhD (Chemistry)	University of Rajasthan, Jaipur
	Thesis title "Synthesis of Heterocycles via novel approach and their biological evaluation"	
	Supervisor : Dr. Vineeta Khatri	
2008-2010	M.Sc. (Chemistry)	Banasthali University, Rajasthan
	Summer Project: Bhabha Atomic Research Centre, Mumbai.	
	Thesis: "Synthesis and characterization of Ce _{1-x} Th _x O ₂ mixed oxides"	
	Supervisor: Dr. Y. P. Naik & Dr. G. A. Ramarao	
2005-2008	B.Sc. Hons (Chemistry)	Banasthali University, Rajasthan

Honours and awards

- Qualified CSIR-JRF (AIR-15)-June, 2011 in Chemical Sciences held by CSIR, New Delhi.
- Qualified GATE-2012, in Chemistry held by Indian Institute of Technology, New Delhi.
- Qualified SET-2012, in Chemistry held by Rajasthan Public Service Commission.

Research Interest

- Development of methods for the molecules ranging from complex, biologically active natural products to new materials using *N*-tosylhydrazones.
- Synthesis of organic nanoparticles for drug delivery application.

Research Publications

1. Wittig Ylide Mediated Decomposition of N-Sulfonylhydrazones to Sulfinates
Deepika Choudhary, Vineeta Khatri, and Ashok K. Basak
Org. Lett. 2018, 20, 1703-1706.
2. Ag-Nanoparticles-Embedded Filter Paper: An Efficient Dip Catalyst for Aromatic Nitrophenol Reduction, Intramolecular Cascade Reaction, and Methyl Orange Degradation
Mohini Mourya, **Deepika Choudhary**, Ashoka Kumar Basak, Chandra Shekhar Pati Tripathi, Dr. Debanjan Guin
Chemistry Select, 2018, 3, 2882-2887.
3. Thiol Terminated Chitosan Capped Silver Nanoparticles for Sensitive and Selective Detection of Mercury (II) Ions in Water
Pinki Sharma, Mohini Maurya, **Deepika Choudhary**, Manoj Goswami, Indra Kundu, Mahabeer Prasad Dobhal, Chandra Shekhar Pati Tripathi, Debanjan Guin
Sensors and Actuators B: Chemical, 2018, 268, 310-318.
4. Transition metal and base free coupling of N-tosylhydrazones with 1,3-dicarbonyl compound
Deepika Choudhary, Chanchal Agrawal, Vineeta Khatri, Ranjit Thakuria and Ashok K. Basak
Tetrahedron Lett. 2017, 58, 1132-1136.

5. "Synthesis and characterization of nano-structured $\text{Th}_{1-x}\text{Ce}_x\text{O}_2$ mixed oxide"
Y. P. Naik, G. A. Ramarao, Ajita Banthiya, **Deepika Chaudhary**, Charu Arora
Journal of Thermal Analysis and Calorimetry, 2012, 107, 105-10.

Computer & Instrumental Skills

- Well versed with various computer packages viz. Chem Draw, Delta NMR Software, Bruker's TopSpin software, SciFinder Scholar, and Origin.
- Expertise in handling instruments like NMR (JEOL-400 MHz), UV (LAMBDA 750 Perkin Elmer), and FT-IR (Bruker Alpha FTIR, Perkin Elmer).

Conferences/ Seminars

1. **Invited lecture** entitled "*LiOtBu Promoted Intramolecular [3+2]-dipolar Cycloaddition Reaction- A Rapid Access to Benzo-pyrano Pyrazoles*" in International Conference on **Recent Trends on Chemical Sciences**, Jan 12-13, 2017, Govt. Engineering College, Bikaner (Rajasthan).
Deepika Choudhary, Vineeta Khatri, and Ashok K. Basak
2. **Oral presentation** entitled "*One-pot Synthesis of Symmetrical Xanthenediones via Transition Metal and Base Free Coupling of N-Tosylhydrazones with Cyclohexane-1,3-diones*" in national conference on Recent Advances at Interfaces of Physical and Life Sciences (RAIPLS-2018) July 6-7, 2018, University of Rajasthan, Jaipur.
Deepika Choudhary, Chanchal Agrawal, Vineeta Khatri, and Ashok K. Basak
3. **Poster presentation** entitled "*On Water: Metal Free Tandem Synthesis of 1,2-Dihydroisoquinolines via Three-Component Reaction*" in international conference on Frontiers at the Chemistry-Allied Sciences Interface (FCASI-2016), April 25-26, 2016, University of Rajasthan, Jaipur.
Deepika Choudhary, and Vineeta Khatri
4. Participated in 17th International Conference of International Academy of Physical Sciences (CONIAPS XVII) on Emerging Trends in Physical Sciences and Technology, January 16-18, 2015, University of Rajasthan, Jaipur.
5. Participated in National Conference on Frontiers at the Chemistry-Allied Sciences Interface, March 13-14, 2015, University of Rajasthan, Jaipur.
6. Participated in National Seminar on Chemistry for Economic Growth and Human Comforts, August 31, 2013, University of Rajasthan, Jaipur.

Workshops/ Trainings

1. Orientation Programme-33 (2002-2017 to 21-03-2017) at UGC-HRDC, Kumaun University, Nainital.
2. Participated in one day workshop on Intellectual Property Rights “Awareness and Training Programme” (IPRATP-2018), February 24, 2018, University of Rajasthan, Jaipur.
3. 9th Refresher Programme in Environmental Studies (23-05-2018 to 12-06-2018) at UGC-HRDC, Banaras Hindu University, Varanasi.