

# Naveen Gupta

## MSc, Ph. D

✉ Email address: [n.gupta@iecb.u-bordeaux.fr](mailto:n.gupta@iecb.u-bordeaux.fr)

<https://orcid.org/0000-0003-0406-3378>

**Address:** CBMN, UMR 5248 Univ. Bordeaux - CNRS IECB, Bordeaux, France, 33607, Pessac,  
**Team G. Guichard**

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**Research Interests:** • Organometallic Chemistry • Foldamers and Supramolecular catalysis • Asymmetric synthesis, Organocatalysis • Heterogeneous and homogeneous catalysis • Green Chemistry

## RESEARCH POSITIONS

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### University of Bordeaux, CBMN, Bordeaux, France | (UPV/EHU)

Marie Curie ADAGIO Fellow | 10-2023 – present

*Project: Asymmetric Catalysis with Bioinspired helical Foldamer*

### CNRS-Institut Européen de Chimie et Biologie, Bordeaux, France

Post-Doctoral Fellow | 10/2022 – 09/2023

*Project: Oligourea Foldamers to catalyze molecular transformations (formation of C-C bonds).*

### University of Warsaw | Faculty of Chemistry, Poland

Post-Doctoral Fellow- (pol. Adiunkt) | 11/2019 – 01/2021

Post-Doctoral Fellow- (pol. Adiunkt) | 07/2021 – 10/2022

*Project: Alpha-helicomimetic foldamers - synthesis, self-assembly and molecular recognition*

### CSIR-Central Salt and Marine Chemicals Research Institute | IMCD Division, India

Research Associate | 04/2018 – 02/2019

*Project: Industrial project- Fine chemicals for industrial application*

### Nanjing University (China)

Post-Doctoral Fellow | 03/2019 – 09/2019

*Project: Synthesis of Novel Radicals and related Species*

## EDUCATION

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### AcSIR | Central Salt and Marine Chemicals Research Institute, India | Inorganic Materials and Catalysis Division

Doctor of Philosophy (PhD) in Chemical Sciences | 2013 – 2018 | Supervisor: Dr. N. H. Khan, Dr. S. H. R. Abdi

Thesis: Homogeneous and Heterogeneous catalysts for organic transformations

### University of Lucknow India | Department of Chemistry

Masters (M.Sc), Pharmaceutical Chemistry | 2010 – 2012 | CSIR-Central Drug Research Institute

Thesis: Synthesis of spermicidal Compounds viz. Dithiocarbamates as Dual Acting Contraceptives

### University of Lucknow India | BSNV PG College | Department of Chemistry

Bachelor of Science (B.Sc.) Chemistry | 2004 – 2007

**St. Thomas College | Lucknow Public School, India** | 2001 – 2004 | High School and Intermediate

## HONOURS AND AWARDS

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**Marie Skłodowska-Curie Actions COFUND** Postdoctoral Fellowship (ADAGIO) | University Bordeaux (UBx) | Basque Country UPV/EHU

INSPIRE Fellowship Award [IF120764] | **Department of science and Technology, India** [ 01/10/2012]

Merit Certificate Award | University of Lucknow, India

## LIST OF PUBLICATIONS:

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1. **Naveen Gupta**, Tamal Roy, Debashis Ghosh, Sayed H. R. Abdi, Rukhsana I. Kureshy, Noor-ul H. Khan, and Hari C. Bajaj, Ordered Short Channel Mesoporous Silica modified with 1,3,5-Triazine-Piperazine as Versatile Recyclable Base Catalyst for Cross-Aldol, Knoevenagel and conjugate addition reactions with Isatins, *RSC Adv.*, 2015, 5, 17843-1785
2. **Naveen Gupta**, Gopal Bhojani, Rajkumar Tak, Ajay Jakhar, Noor-ul H. Khan, Shruti Chatterjee, and Rukhsana I. Kureshy, Highly Diastereoselective Syntheses of SpiroOxindole Dihydrofuran Derivatives in Aqueous Media and Their Antibacterial Activity, *ChemistrySelect* 2017, 2, 10902–10907
3. **Naveen Gupta**, Rajkumar Tak, Ajay Jakhar, Noor-ul H. Khan, and Rukhsana I. Kureshy, Copper(II) triflate catalyzed regioselective and enantioselective propargylation of Isatin derivatives using Allenylboronic acid pinacol ester, *Eur. J. Org. Chem.* 2018, 11, 1384-1392
4. Rajkumar Tak, **Naveen Gupta**, Manish Kumar, Rukhsana I. Kureshy and Noor-ul H. Khan, Regioselective Alcoholysis and Chlorination reaction of Spiro-epoxyoxindole at the Spiro-Centre: Efficient Synthesis of 3,3-di substituted-oxindole *Eur. J. Org. Chem.* 2018, 41, 5678-5687
5. Debashis Ghosh, **Naveen Gupta**, Sayed H. R. Abdi, Sekhar Nandi, Noor-ul H. Khan, Rukhsana I. Kureshy and Hari C. Bajaj, Organocatalyzed enantioselective allylation of isatins using chiral amino alcohol derived squaramide as catalyst, *Eur. J. Org. Chem.*, 2015, 13, 2801-2806
6. Prasanta Kumar Bera, **Naveen Gupta**, Sayed H. R. Abdi, Noor-ul H. Khan, Rukhsana I. Kureshy, and Hari C. Bajaj, Bimetallic titanium complex catalyzed enantioselective oxidation of thioethers using aqueous H<sub>2</sub>O<sub>2</sub> as terminal oxidant, *RSC Adv.*, 2015, 5, 47732-47739
7. Rajkumar Tak, Manish Kumar, Tusharkumar Menapara, **Naveen Gupta**, Rukhsana I. Kureshy, Noor-ul H. Khan, and E. Suresh, Asymmetric Hydrolytic and Aminolytic Kinetic Resolution of Racemic Epoxides using Recyclable Macrocyclic Chiral Cobalt(III) Salen Complexes, *Adv. Synth. Catal.* 2017, 359, 3990 – 4001
8. Ajay Jakhar, Amamudin Ansari, Sekhar Nandi, **Naveen Gupta**, Noor-ul H. Khan, and Rukhsana I. Kureshy, Bronsted Basic Ionic Liquid as Catalytic and Reusable Media for Conjugate Cyanation of CF<sub>3</sub>-Substituted Alkylidenemalonates Using Acetone Cyanohydrin, *ChemistrySelect* 2017, 2, 11346–11351
9. Amamudin Ansari, **Naveen Gupta**, Ajay Jakhar, Noor-ul H. Khan, and Rukhsana I. Kureshy, Quinine Thiourea Immobilized on SBA-15 as an Efficient Recyclable Catalyst for Asymmetric Strecker Reaction of Isatin N-protected Ketimines, *ChemistrySelect*, 2017, 2, 11912–11917
10. Debashis Ghosh, S. Saravanan, **Naveen Gupta**, Sayed H. R. Abdi, Noor-ul H. Khan, Rukhsana I. Kureshy and Hari C. Bajaj, Phosphotungstic acid as an efficient catalyst for allylation of isatins and N-tert-Butyloxycarbonylamido sulfones under solvent free condition, *Asian J. Org. Chem.* 2014, 3, 1173–1181
11. Ajay Jakhar, Mohd Nazish, **Naveen Gupta**, Noor-ul H. Khan and Rukhsana I Kureshy, Enantioselective addition of cyanide to CF<sub>3</sub> substituted alkylidenemalonates: construction of trifluoromethylated all-carbon quaternary stereocenters. *ChemistrySelect*, 2018, 3, 4838-4843
12. Mohd Nazish, Ajay Jakhar, **Naveen Gupta**, Noor-ul H. Khan and Rukhsana I Kureshy, Enantioselective synthesis of β nitrophosphonates catalysed by secondary amine bithiourea. *Synlett*, 2018, 29, 1385-1389.
13. **N. Gupta**, M. Wilczek, L. Dobrzycki, K. Pulka-Ziach, Structural Consequences of N-Methylation of N-Terminus in Oligourea Foldamers, *ChemPlusChem* 2022, 87, e202200199

## CONFERENCES AND SEMINARS

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### National and International

1. Symposium on Foldamers, Ludwig-Maximilians-University, (Faculty of Chemistry and Pharmacy), Munich, 4-6 Sep-2023 (presented poster)
2. 16th National Symposium on chemistry, Chemical Research Society of India, IIT Powai Mumbai, Feb-7-9'2014  
Poster presentation at 21st International Conference (ISCBC-2015) Current Trends in Drug Discovery and Developments, CDRI, Lucknow, Feb 25-28' 2015
3. Poster presentation at CAT-SYMP 22 National symposium on catalysis, Catalysis Society of India, 7-9 Jan'2015, CSIR-CSMCRI Bhavnagar, Gujarat, India
4. Poster presentation at ICOS 21 21st International Conference on organic synthesis December 11-16, 2016 –IIT Bombay, Mumbai, India
5. Poster presentation at XXXII Gujarat Science Congress-2018: Science and Technology for Capacity Building & Inclusive Growth: The Role of Academies and Academia, 4 -5 February 2018, Bhavnagar, Gujarat India
6. National Seminar on Hyphenated Mass Spectrometry Techniques Enabled Developments in Chemical and Biological Sciences, organized by SAIF, Central Drug Research Institute (CSIR) Lucknow.
7. National Seminar on Supramolecular and Organometallic Chemistry, organized by SAP UGC & Department of Chemistry, Lucknow University.
8. International Conference & Humbolt Kolleg” on recent aspects of organometallic compounds and their Usefulness organized by Chemistry Department, University of Lucknow & Alexander von Humbolt Foundation Germany.
9. National Seminar on Natural Products & Organic Synthesis” and presented Poster entitled “Green chemistry: New advances in drug synthesis & intermediates, organized by Chemistry department, University of Lucknow (SAP-UGC & PURSE (DST)).

## DIGITAL SKILLS

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Microsoft Word / ChemDraw Professional / OriginPro 85 / Bruker Data Analysis / Good command of Chemistry software (ChemDraw, MestreNova, Mendeley)

## LANGUAGE SKILLS

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Mother tongue: Hindi

Other language: English (fluent and advanced)