

Brief Bio-data



सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
CSIR- CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH
बरवा रोड, धनबाद-826015, झारखंड, भारत
Barwa Road, Dhanbad-826015, Jharkhand, India



1. Name: Dr. Shweta Kumari
2. Date of Birth: 05/12/1984
3. Current Position and Address: Senior Scientist
Catalysis Section
CSIR-Central Institute of Mining & Fuel Research
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	B.Sc.	2006	V.B.U. Hazaribag	Chemistry (Hons.)
2	M.Sc.	2008	V.B.U. Hazaribag	Chemistry
3	M.Phil.	2009	ISM Dhanbad	Applied Chemistry
4	Ph.D.	2016	IIT (ISM) Dhanbad	Chemistry

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Senior Scientist	CIMFR	15 th July 2021	Continue	R&D
Research Associate	University of Delhi	1 st Oct 2020	8 th July 2021	R&D
DSKPDF	University of Delhi	June 2017	Sept 2020	R&D
PDF	IITGN	Jan 2017	March 2017	R&D

6. Work Area(s)/ Specialization: Catalysis & Nanomaterials

7. Major contributions: (Max. 100 words): Synthesis of Nanocomposites of Graphene/Polymers and its application in synthetic organic chemistry such as C-H activation, Coupling reaction, Oxidation reactions and new synthetic methodologies.

8. No. of Research Publications:

- Papers in Journals: **16**
- In conference proceedings: Nil
- Invited lectures delivered: **01**

- List of best 05 publications
- 1. Cu (II) Schiff base complex grafted guar gum: Catalyst for benzophenone derivatives synthesis **Shweta Kumari,*** Krishna,* Deepak Yadav and Sunil Kumar Sharma, **Applied Catalysis A: General**, 2020, 601, 117529.
(* Both authors contributed equally to this manuscript)
- 2. A new copper complex on graphene oxide: A heterogeneous catalyst for N-arylation and C-H activation. **Shweta Kumari,*** Ayushi Mittal,* Deepak Yadav, Parmanada and Sunil Kumar Sharma, **Applied Organometallic Chemistry**, 2019, DOI: 10.1002/aoc.5362
(* Both authors contributed equally to this manuscript)
- 3. Graphene oxide-TiO₂ composites: an efficient heterogeneous catalyst for the green synthesis of pyrazoles and pyridines. **Shweta Kumari**, Amiya Shekhar and Devendra D. Pathak, **New Journal of Chemistry**, 2016, 40, 5053-5060.
- 4. Synthesis and characterization of Cu(II) Schiff base complex immobilized on graphene oxide and its catalytic application in the green synthesis of propargylamines. **Shweta Kumari**, Amiya Shekhar and Devendra D. Pathak, **RSC Advances**, 2016, 6, 15340-15344.
- 5. Graphene oxide supported MnO₂ nanorods: an efficient heterogeneous catalyst for oxidation of aromatic amines to azo-compounds. **Shweta Kumari**, Amiya Shekhar and Devendra D. Pathak, **RSC Advances**, 2014, 4, 61187-61192.
- Books/Chapters authored/edited Nil

9. List of 5 Major Contract R&D Projects: Nil

10. (a) Name of Patents/Copyrights applied /granted/commercialized: Nil

(b) Technologies/Products /knowhow/Services developed: Nil

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:

1. Dr. D. S. Kothari Postdoctoral Fellowship-20171.
2. Women scientist award for the best oral presentation in ICC-Conference-2014
3. JRF-2012 & SRF-2014 fellowship

12. Societal Contributions

Member of karma jyoti during Ph.D.

Karma Jyoti envisions enlightening the lives of indigent and marginalized section of the society.

Donator in WWF-India

WWF-India has been pursuing its mission to stop the degradation of the planet's natural environment. It protect endangered species and landscapes across the country with a vision to build a future in which humans live in harmony with nature.