



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Chemical Engineering

Faculty Profile

Dr. Sushmita Sharma

Assistant Professor (Chemical Engineering)

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🔗 <https://scholar.google.com/citations?user=6oZfiW4AAAAJ>

🔗 <https://www.linkedin.com/in/dr-sushmita-sharma-1251bb13b>



Research Areas / Areas of Interest

Reactive Extraction, Membrane Separation, Metal leaching, Statistical Optimization.

Personal Details

Date of Birth : 21 / 10 / 1992

Domicile: Madhya Pradesh

Gender : Female

Blood Group: B+

Contact Details: Permanent: 89, Sethinagar, 456010, Ujjain, M,P,

Current: T1- 401, Wakad, 411033, Pune, Maharashtra

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
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1	Ph.D.	Chemical Engineering	Jaypee University of Engineering & technology, Guna, M.P.	--	2019
2	M.Tech	Chemical Engineering	Jaypee University of Engineering & technology, Guna, M.P.	I st	2015
3	B.Tech.	Chemical Engineering	Jaypee University of Engineering & technology, Guna, M.P.	I st	2013

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	05	00
2	Research	00	00
3	Industry	00	00
4.	Others (Industry sponsored PhD research work)	00	00
Total		05	00

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Process Dynamic & Instrumentation Control	UG	TE	1
2	Chemical Reactor Design (CRE II)	UG	TE	2
3	Process Plant Design & Economics	UG	BE	1
4	Fertilizer Technology	UG	TE	1

5	Solid Waste Management	UG	BE	1
6	Thermodynamics	UG	SE	1
7	Food Technology	UG	TE	1
8.	Industrial Management & Entrepreneurship	UG	BE	1

Conferences

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	00	06	00	06	00
Conferences	02	01	02	00	--

Research Publications

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN / ISSN	Publisher
1.	Sharma, S., Dutta, N.N. & Agrawal, G.K. Optimization of copper extraction from spent LTS catalyst (CuO–ZnO–Al ₂ O ₃) using chelating agent: Box-behken experimental design methodology. <i>Russ. J. Non-ferrous Metals</i> 58, 22–29 (2017). https://doi.org/10.3103/S1067821217010102	Sharma, S., Dutta, N.N. & Agrawal, G.K.	2017	https://doi.org/10.3103/S1067821217010102		Springer
2.	Sharma, S., Agarwal, G.K. & Dutta, N.N. Kinetic study on leaching of Zn and Cu from spent low-temperature shift catalyst (CuO/ZnO/Al ₂ O ₃): application of taguchi design. <i>J Mater Cycles Waste Manag</i> 22, 1509–1520 (2020). https://doi.org/10.1007/s10163-020-01038-x	Sharma, S., Agarwal, G.K. & Dutta, N.N.	2020	https://doi.org/10.1007/s10163-020-01038-x		Springer
3.	LSER analysis of reactive extraction of Zn and Cu with bis (2-ethylhexyl) phosphate (HDEHP) in six different diluents	Sushmita Sharma, Govind Kumar Agarwal &	2018	https://doi.org/10.1080/01496395.2018.1529043		Taylor & Francis

		Narendra Nath Dutta				
4.	Sharma, S., Gautam, A. & Gautam, S. A Greener Approach to Extract Copper from Fertilizer Industry Spent Catalyst. <i>Arab J Sci Eng</i> 45 , 7529–7538 (2020). https://doi.org/10.1007/s13369-020-04652-x	Sharma, S., Gautam, A. & Gautam, S.	2020	https://doi.org/10.1007/s13369-020-04652-x		Springer
5.	Sharma, S., Dutta, N.N. Kinetics of facilitated transport of Zn(II) from leach liquor of spent LTS catalyst across bulk liquid membrane. <i>J IRAN CHEM SOC</i> 17 , 2957–2967 (2020). https://doi.org/10.1007/s13738-020-01972-5	Sharma, S., Dutta, N.N.	2020	https://doi.org/10.1007/s13738-020-01972-5		Springer
6.	Sharma, S., Agarwal, G.K. & Dutta, N.N. Reactive Extraction of Zn and Cu with Bis(2-Ethylhexyl)Phosphate: Optimization using Taguchi Orthogonal Design. <i>Russ. J. Inorg. Chem.</i> 64 , 651–660 (2019). https://doi.org/10.1134/S0036023619050176	Sharma, S., Agarwal, G.K. & Dutta, N.N.	2019	https://doi.org/10.1134/S0036023619050176		Springer

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised By
1.	S. Sharma, A. Gautam, S. Gautam, “The dissolution of copper from spent low temperature shift catalyst using chelating agent”, CHEMCON-2014 IICHE.	S. Sharma, A. Gautam, S. Gautam,	2019	CHEMCON, 2015		Punjab University (Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology), Punjab 30 -31, 2015 October
2.	S. Sharma, N. N. Dutta, G. K. Agarwal “Studies on selective recovery of metal from spent catalyst by reactive extraction with bis (2-ethylhexyl) Phosphate” SCHEMCON 2016 Hyderabad.	S. Sharma, N. N. Dutta a, G. K. Agarwal	2016	SCHEMCON 2016		BV RAJU Institute of Technology, Hyderabad 2016
3.	Sushmita Sharma “Study on reactive extraction equilibria for selective recovery of metal from spent Low temperature shift catalyst (CuO-ZnO-Al ₂ O ₃)” 32nd M.P. Young Scientist Congress March 10-11, 2017.	Sushmita Sharma	2013	32nd M.P. Young Scientist Congress		MPCST, Vigyan Bhawan Bhopal (M.P.) March 10-11, 2017.
4.	Sushmita Sharma “Hydrometallurgical leaching of Zn and Cu from spent Low	Sushmita Sharma	2018	33rd M.P. Young Scientist Congress, 2018		RDVV, Jabalpur, March 15-16, 2018.

	Temperature Shift Catalyst (CuO/ZnO/Al ₂ O ₃)” 33rd M.P. Young Scientist Congress March 15-16, 2018.					
PhD / ME / BE Student Guided for Project				International Conference on Multidisciplinary innovative research in Technology & Management		SIDVI Foundation, October, 30-31, 2023

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	00	00

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.

Patents / IPR Fil

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount (INR)
2.				
3.				
4.				

Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S.N	Title	Type	Duration	Organizer	Sponsoring Agency

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date

Details of Workshop / STTP / FDP / Conferences Attended

S.No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
01	CHEMCAD	Workshop	2 days (8-9 Feb, 2014)	National	Organized by Department of Chemical Engineering, Jaypee University of Engineering Technology, Guna (M.P.), February 8-9, 2014.

2.	Application of MATLAB in Science Engineering"	Workshop	2 days (11-12 Feb), 2017	National	Organized by Department of Electronic and Communication Engineering, Jaypee University of Engineering Technology, Guna (M.P.), February 11-12, 2017.
3.	"Deep learning and applications"	FDP	5 days 9-13 Feb, 2019	National	Jointly organized by E ICT academics and JUET, Guna from December 9 to 13, 2019.
4.	"Alternative Fuels"	FDP	2 days (4-5) September 2020	National	Jointly organized by Rajasthan Technical University, Kota and Poornima collage of Engineering, Jaipur on September 4 - 5, 2020.
5.	Advancing Environmental Sustainability: Integrated approaches to Decarbonization and Wastewater Treatment (AES IADWT-2024)	FDP	5 days (9-13) September, 2024	National	Organised by Department of Chemical Engineering , HIT Haldia, West Bengal
6.	Emerging Technologies and Innovations: Pioneering Environmental Sustainability (ETIPES- 2024)	FDP	5 days (30 Sep. – 4 Oct.), 2024	International	Organized by Department of Chemical Engineering, K.K. Wagh Institute of Engineering Education & Research
7.	Chemical Process Simulation using DWSIM	FDP	5 days, 11-15 November, 2024	National	Organized by the Department of Chemical Engineering, Gaytri Vidya Parishad college of Engineering , Vishakhapatnam in association with IChE Training Institute , Indian Institute of Chemical Engineers, Kolkata

8.	NPTEL Workshop	Workshop	29 November	Natinal	Organized by MIT Academy of Engineering, Alandi, Pune
9.	ATAL Faculty Development Program titled " <i>Empowering Educators: Advanced Design Thinking & Innovation</i> "	FDP	13 days, 2-14 Demeber	National	Organized by the Department of Computer Engineering, AISSMS College of Engineering, Pune
10.	Chemical Process Safety	FDP	5 days, 16-20 December	National	Organized by Department of Chemical Engineering, Singhgad College of Engineering, Pune
11.	Building Tomorrow's Leaders: VIKSIT BHARAT @ 2047	Short term Tarining Prograame	25-29 November	National	NITTTR, Bhopal

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities

Awards Received

S. No.	Awards	Year
1.	Young Scientist Award in an International Conference on Multidisciplinary innovative research in Technology & Management conducted by SIDVI Foundation on 30-31 October 2023.	30-31 October 2023.

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Sushmita

Dr. Sushmita Sharma

(Name with Signature)