AISSMS
COLLEGE OF ENGINEERING
ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade

Department of Chemical Engineering

Faculty Profile



Dr. Maya Utkarsh More
PhD (Chemical Engineering)
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Research Areas / Areas of Interest

Technology development, Process integration and intensification, Disinfection of water, Desulfurization of liquid fuels, API pollutant removal, advanced separation processes, adsorption, cavitation, coagulation, cavitation, extraction

Personal Details

Date of Birth :	29 / 08 / 1988	**Domicile:**	Maharashtra
Gender :	Female	**Blood Group:**	O+ve
Contact Details:	**Permanent:** Flat no. 5, Sarathi apartment, Shivalaya society, Sai chowk, Sus road, Pashan, Pune-411021		
	Current: Flat no. 5, Sarathi apartment, Shivalaya society, Sai chowk, Sus road, Pashan, Pune-411021		

Academic Background

S. N0.	Qualification	Specialization	University	Class/ Grade	Year of Passing
1	Ph.D.	Chemical Engineering	Academy of Scientific and Innovative Research	8.11 (CGPA)	2022
2	M.Tech.	Chemical Engineering	Bharati Vidyapeeth Deemed University, Pune	Ist class with Distinction)	2012
3	B.E.	Chemical Engineering	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	Ist	2009

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	02	02
2	Research	05	06
3	Industry	00	00
Total		**07**	**08**

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Process Calculations	UG	SE	2
2	Mass transfer	UG	TE	2
3	Instrumentation and Process control	UG	TE	2
4.	Chemical Reaction Engineering	UG	SE	2

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	01	07	00	41.2	00
Conferences	08	02	00	00	--

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1.	Development of multipurpose biomass derived adsorbents using Coccinia grandis for removal of contaminants.	Surabhi S. Raj, **Maya B. Mane**, Pooja Thanekar, Kshama Balapure, Vinay M. Bhandari	2023	Clean Technologies and Environmental Policy	1618-9558	Springer
2.	Studies in instant water disinfection using natural oils.	Divya Dixit, Vinay M. Bhandari, **Maya B. Mane**, Kshama Balapure	2022	Biochemical Engineering Journal	2730-7700	Springer
3.	Developing spherical activated carbons from polymeric resins for removal of contaminants from aqueous and organic streams.	**Maya B. Mane**, Vinay M. Bhandari	2022	International Journal of Environmental Science and Technology	1735-2630	Springer
4.	Safe water and technology initiative for water disinfection: Application of natural plant derived materials	**Maya B. Mane**, Vinay M. Bhandari, Vivek V. Ranade	2021	Journal of Water Process Engineering	2214-7144	Elsevier

5.	Destroying antimicrobial resistant bacteria (AMR) and difficult, opportunistic pathogen using cavitation and natural oils/plant extract	**Maya B. Mane**, Vinay M. Bhandari, Kshama Balapure, Vivek V. Ranade	2020	Ultrasonics – Sonochemistry	1873-2828	Elsevier
6.	A novel hybrid cavitation process for entering and altering rate of disinfection by use of natural oils derived from plants.	**Maya B. Mane**, Vinay M. Bhandari, Kshama Balapure, Vivek V. Ranade	2020	Ultrasonics – Sonochemistry	1873-2828	Elsevier
7.	Determination of Exemestane in bulk and pharmaceutical dosage form by HPTLC	**Maya B. Mane**, Jaiprakash N. Sangshetti, Parmeshwar J. Wavhal, Pravin S. Wakte, Devanand B. Shinde.	2014	Arabian Journal of Chemistry	1878-5379	Elsevier
8.	Vapor Liquid Equilibria: A Review	**Maya B. Mane** and S. N. Shinde	2012	Scientific Reviews and Chemical Communications	2277-2669 (E)	Trade Science Inc

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised By
1.	Newer spherical activated carbon materials and material modifications for deep desulfurization of fuels.	**Maya Mane**, Vinay Bhandari, LS Gayatri	2017	21st CRSI National Symposium in Chemistry		CSIR-IICT, Hyderabad during 14-16 July, 2017
2.	Spherical activated carbon adsorbents with metal modification for disinfection	**Maya B. Mane**, J. Jena, Vinay M. Bhandari, LS Gayatri	2018	National Science Day Symposium		CSIR-NCL, Pune during 26-27 Feb, 2018

3.	Newer spherical activated carbon adsorbents for disinfection and industrial effluent treatment	**Maya B. Mane**, Vinay M. Bhandari, J. Jena, T. Sinha	2018	8th DAE-BRNS biennial Symposium on Emerging trends in separation science and technology (SESTECH 2018)		BITS Pilani, Goa Campus, Goa from 23-26 May,2018
4.	Kinetics of disinfection using vortex flow of vortex diode in hydrodynamic cavitation	**Maya B. Mane**, K. Balapure, Vinay M. Bhandari	2018	National Symposium on Chemical Reaction Engineering		CSIR-NCL, Pune during 17-18 Dec, 2018
5.	Exploring Green Technologies: Newer materials and methods for disinfection of water	**Maya B. Mane**, Kshama Balapure, Vinay M. Bhandari	2019	International Conference on materials for the millennium MATCON 2019		cochin university of science and technology, kochi during 14-16 March, 2019
6.	Hybrid Cavitation Process using Natural Oils for Disinfection of Water	**Maya B. Mane**, Kshama Balapure, Vinay M. Bhandari	2020	International Conference on Eco-health & Environmental Sustainability, ICEES-2020		Navrachana University, Vadodara in association with University of Calgary, Canada during February 24-26, 2020
7.	Hybrid hydrodynamic cavitation technology for disinfection of water using natural additive	**Maya B. Mane**, Vinay M. Bhandari	2021	. Advances in Chemistry and Chemical Engineering 2021 (ACCE2021)		Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat during April 16–17, 2021

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	**-**	01	00

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
Institution of Engineers (India) (IEI)	**National**	Life	AM3163337

Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1.	Vinay M. Bhandari, **Maya B. Mane**, Kshama Balapure	A NOVEL PROCESS FOR ENHANCING AND ALTERING REMOVAL OF BACTERIA BY USE OF NATURAL OILS DERIVED FROM PLANT OR EXTRACT IN CAVITATION	2019	Published	. Patent Filed-20/07/2019 (201911021646).

Books Published

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

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount (INR)
1.	DST Women Scientist (WOS-A) from Department of Science and Technology (DST), Government of India to pursue PhD (Aug 2016 to Feb 2020).	3.6 years (2016-2020)	Department of Science and Technology (DST)	Rs. 19,78,000/-
2.	Development of Nanocomposite for Advanced Wastewater Treatment	1 year	AISSMS Society	Rs. 20000/-
3.	Industrial Wastewater consultancy	Ongoing	ATE Huber	Rs. 2500000/-

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

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
1.	Pumps — Moving Reference Frame Approach	Works hop	1 Day	State	AISSMS College of Engineering , Pune and ADVIK HI-TECH solutions, Pune
2.	Sustainable Waste and Water Management for a Cleaner Environmen	STTP/ FDP	1 Week	National	ISTE and AISSMS

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date
1.	AISSMS COE, Pune	Safe water and sustainable technology initiative from Indian knowledgebase (SWASTIIK)	National	17th March 2026
2.	MIT Alandi	Sustainable and Intensified Technologies for Water Treatment	National	12th September 2026

Details of Worshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
01	Emerging Technologies and Innovations: Pioneering Environmental Sustainability (ETIPES-2024) from September 30 to October 4, 2024	FDP	5 days	K.K. Wagh Institute of Engineering Education and Research, Nashik	K.K. Wagh Institute of Engineering Education and Research, Nashik
02	Role of Nanotechnology in Sustainable Development from October 18 to October 22, 2024	FDP	5 days	Gharda Institute of Technology, Lavel	Gharda Institute of Technology, Lavel
03	NPTEL workshop conducted on November 29, 2024	Work shop	1 Day	IIT Bombay at MIT Academy of Engineering, Alandi, Pune	IIT Bombay at MIT Academy of Engineering , Alandi, Pune

04	Biological Process Design for Wastewater Treatment	FDP	8 Weeks	Swayam and IIT Roorkee	Swayam and IIT Roorkee
05	Nanotechnology in Chemical Engineering	FDP	8 Weeks	NPTEL-AICTE	NPTEL-AICTE
06	Sustainable Waste and Water Management for a Cleaner Environment	FDP	1 Week	ISTE and AISSMS	ISTE
07	Centre for Engineering Education Excellence Program	FDP	15 Days	Infosys, INAE, AICTE and IIT	Infosys, INAE, AICTE and IIT

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	Project investigator on DST Women Scientist (WOS-A) project from Department of Science and Technology (DST), Government of India to pursue PhD (Aug 2016 to Feb 2020)
2	Department Expert Lecture Coordinator, IIC Coordinator, TE GFM, NBA Coordinator

Awards Received

S. No.	Awards	Year
1	**DST Women Scientist (WOS-A) fellowship** from Department of Science and Technology (DST), Government of India with project cost of Rs 19,78,000/-	Aug 2016 to Feb 2020
2	**Best Poster Award with Citation** for the paper entitled Newer spherical activated carbon materials and material modifications for deep desulfurization of fuels in **21st CRSI National Symposium in Chemistry 2017, Hyderabad.**	2017
3	**SERB-IGCW 2019 Green Chemistry Award-Top Three Nominee certificate in Knowledge Community Students** for Innovation for outstanding case studies incorporating the Principles of Green	2019

	Chemistry and Engineering into Chemistry routes, Chemical designs and Manufacturing Practices; and steps taken towards pollution prevention while meeting the triple bottom line of People, Profit and Planet.	
4	**Best Oral Presentation Award with Trophy** for the paper entitled Hybrid Cavitation Process using Natural Oils for Disinfection of Water in at International conference on Ecohealth and Environmental Sustainability (ICEES-2020), Gujrat.	2020
5	**Director's Commendation Award with Citation** for Research Publication in Chemical Engineering/Technology-2020 for the paper entitled Destroying antimicrobial resistant bacteria (AMR) and difficult, opportunistic pathogen using cavitation and natural oils/plant extract, CSIR-NCL, Pune	2020
6	**INAE-Centre for Engineering Education Excellence (CEEE) Program fellowship**- Received Fellowship of Rs 50,000/- from INAE and Infosys	2024

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



Dr. Maya Utkarsh More

(Name with Signature)