





Department of Chemical Engineering

Faculty Profile

Dr. Maya Balasaheb Mane

PhD (Chemical Engineering) Assistant Professor <u>mbmane@aissmscoe.com</u> <u>mayamane29@gmail.com</u>



🕿 8805001490; Extn:

- https://scholar.google.co.in/citations?user=ZHQGDmQAAAAJ&hl=en
- Attps://www.linkedin.com/in/dr-maya-mane-90254a71/

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				

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

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.	Subject	UG/PG	Class	No of times
No.			(FE/SE/TE/BE/ME)	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)

6						
S.	Document Details	Authors	Year	Source Details	ISBN/	Publisher
No					ISSN	
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		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	Maya	2017	21st CRSI		CSIR-IICT,
	activated carbon	Mane,		National		Hyderabad
	materials and material	Vinay		Symposium in		during 14-16
	modifications for deep	Bhandari,		Chemistry		July, 2017
	desulfurization of fuels.	LS Gayatri		-		
2.	Spherical activated	Maya B.	2018	National		CSIR-NCL,
	carbon adsorbents	Mane, J.		Science Day		Pune during 26-
	with metal modification	Jena,		Symposium		27 Feb, 2018
	for disinfection	Vinay M.				
		Bhandari,				
		LS Gayatri				

3.	Nower enhanized	Maya D	2018	8th DAE-	
э.	Newer spherical activated carbon	Maya B. Mane,	2010	BRNS	BITS Pilani, Goa Campus,
	adsorbents for	Vinay M.		biennial	Goa from 23-26
	disinfection and	Bhandari,		Symposium	May,2018
	industrial effluent	J. Jena, T.		on Emerging	11103,2010
	treatment	Sinha		trends in	
	ucament	Omna		separation	
				science and	
				technology	
				(SESTECH	
				2018)	
4.	Kinetics of disinfection	Maya B.	2018	National	CSIR-NCL,
	using vortex flow of	Mane, K.		Symposium	Pune during 17-
	vortex diode in	Balapure,		on Chemical	18 Dec, 2018
	hydrodynamic	Vinay M.		Reaction	
	cavitation	Bhandari		Engineering	
5.	Exploring Green	Maya B.	2019	International	cochin
	Technologies: Newer	Mane,		Conference	university of
	materials and methods	Kshama		on materials	science and
	for disinfection of	Balapure,		for the	technology,
	water	Vinay M.		millennium	kochi during 14-
		Bhandari		MATCON	16 March, 2019
				2019	
6.	Hybrid Cavitation	Maya B.	2020	International	Navrachana
	Process using Natural	Mane,		Conference	University,
	Oils for Disinfection of	Kshama		on Eco-health	Vadodara in
	Water	Balapure,		&	association with
		Vinay M.		Environmental	University of
		Bhandari		Sustainability,	Calgary,
				ICEES-2020	Canada during
					February 24-26,
7	United by dready reams	Maya B	2024	Advorsesia	2020
7.	Hybrid hydrodynamic	Maya B.	2021	. Advances in	Department of Chemical
	cavitation technology for disinfection of	Mane , Vinay M.		Chemistry and Chemical	-
	water using natural	Bhandari		-	Engineering, Sardar
	additive	Difatiuali		Engineering 2021	Vallabhbhai
	auullive			(ACCE2021)	National
					Institute of
					Technology,
					Surat during
					April 16–17,
					2021
					2021

PhD / ME / BE Student Guided for Project

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

Professional Memberships

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

Patents / IPR Filed / Granted

S.	Investigator	Title	Year	Status	Details
No	Details			(Filed/Grante	
				d)	
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.	Title	Name of the	ISBN/ISSN
No		Publisher	Number

Research Grants Received

S.	Program	Duration	Funding	Grant Amount
No			Agency	(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/-

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

S. No	Title	Туре	Duration	Level (State/National/ International)	Sponsoring Agency
01					

Contribution as Resource Person

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

Details of Worshop / STTP / FDP / Conferences Attended

S. N	Title	Туре	Duration	Organizer	Sponsoring Agency
1					

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	DST Women Scientist (WOS-A) from Department of Science and Technology
	(DST), Government of India to pursue PhD (Aug 2016 to Feb 2020)

Awards Received

S.	Awards	
No.		Year
1	DST Women Scientist (WOS-A) from Department of Science and Technology (DST), Government of India to pursue PhD	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 21 st 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 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.	2019
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

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

Bane

Dr. Maya Balasaheb Mane

(Name with Signature)