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Department of Chemical Engineering

Faculty Profile

Prof.(Dr) Ashish V Mohod

Post-doctorate, Brazil PhD (Chemical Engineering) Assistant Professor

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(020) 26058587; Extn: 1214

https://scholar.google.com/citations?user=z4fHcbAAAAAJ&hl=en

https://orcid.org/my-orcid?orcid=0000-0001-8193-5008



Research Areas / Areas of Interest

Wastewater treatment, cavitation, biodiesel, crystallization

Personal Details

Date of Birth: 14 /05 / 1985 Domicile: Maharashtra

Gender: Male Blood Group: O+ve

Contact Details: Department of Chemical Engineering, AISSMS College of

Engineering, Pune – 400001

Academic Background

S. N0.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Post-Doc	Chemical	USP,		Sept 2022
		Engineering	Brazil		
1	Ph.D.	Chemical	ICT,		Feb 2018
		Engineering	Mumbai		
2	M.E.	Chemical	ICT,	I st	May 2010
		Engineering	Mumbai		
3	B.E.	Chemical	Amravati	I st	May 2007
		Engineering	University		

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	12	08
2	Research	04	00
3	Industry		
4.	Others		
Total		16	08

Subjects / Courses Taught

S.	Subject	UG/PG	Class	No of times
No.			(FE/SE/TE/BE/ME)	Subject Taught
1	Engineering Materials	UG	SE (Chemical)	07
2	Chemical Engineering	UG	TE (Chemical)	07
	Design-I			
3	Petroleum Refining	UG	BE (Chemical)	01

4	Petrochemical Engg	UG	BE (Chemical)	01
5	Bioprocess Engg	UG	BE (Chemical)	01
6	Process optimization	PG	ME-Chemical	01

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	01	24	-	24	01
Conferences	36	-	-	-	

Publication Details (Journals)

S.	Decument Details	Authoro	Voor	Source	ISBN/	Dublisher
No	Document Details	Authors	Year	Details	ISSN	Publisher
1.	Degradation of magenta	Manisha V Bagal,	2022	Water	1554-	Elsevier
	dye using cavitation-based	Mahesh A Suryawanshi,		environment	7531	
	transducers to glass	Sanket N Shinde, Dipak		research		
	marble: Lab to semi-pilot	V Pinjari, Ashish V				
	scale operations	Mohod				
2	Parameteric optimization	M Bagal, B	2022	Chemical Engg	2476-	Elsevier
	of a hybrid cavitation-	Ramos, S Mahajan, A		Res. and	4779	
	based Fenton process for	Sonawane, P Palharim,		Design		
	the degradation of methyl	A V Mohod				
	violet 2B in a packed bed					
	reactor					
3	Degradation of patent blue	Ashish V Mohod,	2022	Advances in	17443563	Elsevier
	v using cavity-bubble	Manisha V Bagal,		Environmental		
	oxidation reactor induced	Mayur Malusare, Kunal		Technology		
	by glass balls	Ranjane				
4	Degradation of dye in a	M Bagal, G Kumbhar, S	2022	Chemical Engg	ISSN	Elsevier
	continuous zig-zag flow	Shukla, A Tiwari, D		Res. and	2476-	
	pattern photocatalytic	Gajbhiye, A V Mohod		Design	4779	
	reactor using Doehlert					
	matrix					

degradation of Poly Vinyl Alcohol (PVA) using ultrasound and microwave irradiation 6 Improvement in crystallization of copper sulphate using ultrasound and comparison with conventional method 7 Influence of reaction parameters on oxalic acid crystallization: Doehlert matrix 8 Optimization of Palm fatty acid distillate using conventional approach and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-coost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach 10 Intensified synthesis of Intensified synthesis of based approach 10 Intensified synthesis of Intensified synthesis of Intensified synthesis of Intensified synthesis of Bangaklar, Nample V Mohod, PR Gogate V Mohod,	5	Effect of additives on	Manisha V Bagal, Rahul	2022	international	ISSN	Elsevier
Akcohol (PVA) using ultrasound and microwave irradiation A V Mohod*, Dipak V Pinjari Improvement in A V Mohod, S 2022 Chemical Engg and processing sulphate using ultrasound and comparison with conventional method Influence of reaction parameters on oxalic acid crystallization: Doehlert matrix M Bagal, P R Gogate Shinde, S Singh, A V Mohod Optimization of Palm fatty acid distillate using conventional approach and its comparison with ultrasonic and microwave irradiation Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach A V Mohod*, S 2022 Chemical Engg and processing-sintensification process intensification process intensification process intensification process intensification M Bagal, S Patil, K 2022 J of crystal operation of crystallization and process growth Mohod M Bagal, B Deb, T 2021 Energy, 2363- Elsevier rediation Ecology and Environment Ecology and Environment Deshrukh, S Singh, A V Ecology and Environment Ecology and Environment Deshrukh, S Singh, A V Environment Elsevier operation of Caper Elsevier of Chemical Engineering Elsevier operation in the Environment of Chemical Engineering		degradation of Poly Vinyl	R Saini, Abdul Rahim I		polymer		
irradiation Pinjari Improvement in crystallization of copper sulphate using ultrasound and comparison with conventional method To Influence of reaction parameters on oxalic acid crystallization using conventional and ultrasonication: Doehlert matrix Note of esterification of Palm fatty acid distillate using conventional approach Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation- pinjari A V Mohod, S 2022 Chemical Engg and processing-process intensification Deshmukh, S Singh, M process intensification M Bagal, P R Gogate Shinde, S Singh, A V growth Mohod Singh, A V process intensification Document of copper and processing-process intensification Document of crystal growth Elsevier of crystal process intensification Document of crystal process intensification Doc		Alcohol (PVA) using	Shaikh, Saurabh Patil, A		processing	8602	
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and comparison with conventional method 7 Influence of reaction parameters on oxalic acid crystallization using conventional and ultrasonication: Doehlert matrix 8 Optimization of esterification of Palm fatty acid distillate using conventional approach and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach A V Mohod*, N 2020 South African 1026-9185 Elsevier 1026-		crystallization of copper	Bangadkar, A		and processing-	2701	
conventional method 7 Influence of reaction parameters on oxalic acid crystallization using conventional and ultrasonication: Doehlert matrix 8 Optimization of esterification of Palm fatty acid distillate using conventional approach and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation 1 Influence of reaction of Palmi, K 2022 J of crystal 0022- 0248 2 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-		sulphate using ultrasound	Deshmukh, S Singh, M		process		
Influence of reaction parameters on oxalic acid crystallization using conventional and ultrasonication: Doehlert matrix Magal, S. Singh, A. V.		and comparison with	Bagal, P R Gogate		intensification		
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8 Optimization of esterification of Palm fatty acid distillate using conventional approach and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach 8 Optimization of M Bagal, B Deb, T 2021 Energy, Ecology and Environment 9 Environment 1026- 9 South African Journal of Chemical 1026- 9 Chemical Elsevier 7692 Elsevier 7692 Formal of Chemical Engineering		ultrasonication: Doehlert					
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conventional approach and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach A V Mohod*, N 2020 South African Journal of 9185 Chemical Engineering		esterification of Palm fatty	Unharia, V Rajan, A V		Ecology and	7692	
and its comparison with ultrasonic and microwave irradiation 9 Intensified synthesis of biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach A V Mohod*, N 2020 South African Journal of 9185 Chemical Elsevier Chemical Engineering		acid distillate using	Mohod		Environment		
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9 Intensified synthesis of A V Mohod*, N 2020 South African 1026- biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation- based approach Elsevier Chemical Engineering		ultrasonic and microwave					
biodiesel using low-cost feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach Bhaskar, V Ranjan, R Takur, M Bagal Chemical Engineering		irradiation					
feedstock and catalyst via conventional as well as ultrasonic irradiation-based approach	9	Intensified synthesis of	A V Mohod*, N	2020	South African		Elsevier
conventional as well as ultrasonic irradiation- based approach		biodiesel using low-cost	Bhaskar, V Ranjan, R		Journal of	9185	
ultrasonic irradiation- based approach		feedstock and catalyst via	Takur, M Bagal		Chemical		
based approach		conventional as well as			Engineering		
		ultrasonic irradiation-					
10 Intensified synthesis of A V Mohod, P R Gogate 2018 Ultrasonic 1350- Elsevier		based approach					
	10	Intensified synthesis of	A V Mohod, P R Gogate	2018	Ultrasonic		Elsevier
medium chain Sonochemistry 4177					Sonochemistry	41//	
triglycerides using		triglycerides using					
ultrasonic reactors at a		ultrasonic reactors at a					
capacity of 4L		capacity of 4L					

11	Process intensified	A V Mohod, S Hinge, R		Journal of	2213-	Elsevier
	degradation of Methyl	Raut, M Bagal, D Pinjari		Environmental	3437	
	Violet 2B using UV-air			Chemical		
	bubble induced oxidation			Engineering		
	based on small glass balls					
12	Improved crystallization	A V Mohod, P R Gogate	2018	Ultrasonic	1350-	Elsevier
	of ammonium sulphate			Sonochemistry	4177	
	using ultrasound assisted					
	approaches with					
	comparison with the					
	conventional approach					
13	Intensified synthesis of	A V Mohod, P R Gogate	2017	Chemical Engg	1385-	Elsevier
	medium chain			Journal	8947	
	triglycerides using novel					
	approaches based on					
	ultrasonic and microwave					
	irradiations					
14	Intensification of biodiesel	A V Mohod, P R	2017	Chemical Engg	1385-	Elsevier
	production using	Gogate*, G Viel, P		Journal,	8947	
	hydrodynamic cavitation	Firmino, R Guidici				
	based on high-speed					
	homogenizer					
15	Intensification of	A V Mohod, A S	2017	Ultrasonic	1350-	Elsevier
	esterification of non-	Subodhi, Parag R		Sonochemistry	4177	
	edible oil as sustainable	Gogate				
	feedstock using					
	cavitational reactors					
16	Combined removal of Rh	S Hinge, M Orpe, K	2016	Desalination	1944-	Elsevier
	B and Rh 6G from	Sathe, G Tikhe, K N		and water	3994	
	wastewater using novel	Bawankar,		treatment		
	treatment approaches	A V Mohod*, P R				
	based on ultrasonic and	Gogate				
	ultraviolet irradiations					

17	Degradation of Patent	R Dalbhanjan, N B	2015	Desalination	1944-	Elsevier
	Blue V dye using modified	Bhaskar, B S Banerjee,		and water	3994	
	photocatalytic reactor	S P Hinge, A V		treatment		
	based on solar and UV	Mohod*, P R Gogate				
	irradiations					
18	Removal of Rhodamine	N B Bhaskar, A D	2015	Desalination	1944-	Elsevier
	6G from wastewater using	Kadam, J Biwal, P		and water	3994	
	Solar Irradiations in the	Diwate, R Dalbhanjan,		treatment		
	presence of different	D Mahale, S P Hinge, B				
	additives	S Banerjee, A V				
		Mohod*, P R Gogate				
19	Removal of patent blue V	D D Mahale, N N Patil,	2015	Desalination	1944-	Elsevier
	dye using air bubble-	D S Zodge, P D		and water	3994	
	induced oxidation based	Gaikwad, B S Banerjee,		treatment		
	on small glass balls:	K N Bawankar, A V				
	Intensification studies	Mohod*, P R Gogate				
20	Degradation of magenta	Y S Karanjkar, R M	2015	Ultrasonic	1350-	Elsevier
	dye using different	Dinde, N M Dinde, K N		Sonochemistry	4177	
	approaches based on	Bawankar,S P Hinge, A				
	ultrasonic and ultraviolet	V Mohod*, P R Gogate				
	irradiations: Comparison					
	of effectiveness and effect					
	of additives for					
	intensification					
21	Sonocatalytic and	N Bokhale, S Bomble, R	2014	Ultrasonic	1350-	Elsevier
	Sonophotocatalytic	Dalbhanjan, D Mahale,		Sonochemistry	4177	
	degradation of Rhodamine	S Hinge, B Banerjee, A				
	6G containing	V				
	wastewaters	Mohod*, P Gogate				
22	Sonochemical	B S Banerjee, A V	2014	Desalination	1944-	Elsevier
	decolorization of	Khode, A P Patil, A V		and Water	3994	
	wastewaters containing	Mohod*, P R Gogate		Treatment		
	Rhodamine 6G using					
	ultrasonic bath at an					

	operating capacity of 2-					
	liter					
23	Ultrasound based	I Pawar, P Joshi, A	2014	Ultrasonic	1350-	Elsevier
	treatment approaches for	Kadam, N Pande, P		Sonochemistry	4177	
	intrinsic viscosity	Kamble, S Hinge, B				
	reduction of poly vinyl	Banerjee, A				
	Pyrrolidone	V Mohod*, P R Gogate				
24	Ultrasonic Degradation of	A V Mohod, P R Gogate	2010	Ultrasonic	1350-	Elsevier
	Polymers: Effect of			Sonochemistry	4177	
	operating parameters and					
	intensification using					
	additives for					
	carboxymethyl cellulose					
	(CMC)and Polyvinyl					
	alcohol (PVA)					
25	Experimental	Dipika Mahale, Shruti	2017	Journal of		
	investigation of	Hinge, Rachana		Chemical Engg		
	preparation of grease and	Dalbhanjan, Barnali		and its		
	metallic soap from neem	Banerjee, Ashish V		application		
	oil and karanja oil	Mohod				

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.						

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	-	61

Professional Memberships

Professional	Level	Туре	Membership
Body	(National/ International)	(Fellow/Life/Annual)	No.
Institution of	National	Associate member	AM-153544-5
Engineers, IEI	National	Associate member	AWI-133344-3
Institution of			
Chemical	National	Life	I N
Engineers	National	Lile	LM-51547
IIChE			

Patents / IPR Filed / Granted

S.	Investigator	Title	Year	Status	Details
No	Details			(Filed/Grante	
				d)	
1	Inventor and aaplicant- Dr. A V Mohod	Treatment of waste water effluent on a continuous mode using photo-oxidation marble column	2014	Filed	2130/MUM/2014
2	Inventor and aaplicant- Dr. A V Mohod	An Improved Advanced Oxidation Process for the Treatment of Waste Water Containing Dyes using Waste Dry Battery/Cell as a Catalyst	2014	Filed	2131/MUM/2014
3	Inventor and aaplicant- Dr. A V Mohod	Continuous Flow with Visible Light Induced Reactor using Nanoparticles	2018	Filed	201821022830
4	Inventor and aaplicant- Dr. A V Mohod	Polymer Degradation using Novel Technique	2019	Filed	201921023111
5	Inventor and aaplicant-	Degradation/decolorizatio n using adsorbent	2019	Filed	201921023112

	Dr. A V Mohod				
6	Inventor and aaplicant- Dr. A V Mohod	Intensified Synthesis of Biodiesel Using Advanced Technique	2019	Filed	201921023113
7	Inventor and aaplicant- Dr. A V Mohod	Continuous swirling flow photocatalytic reactor	2022	Filed	202221030397
8	Inventor and aaplicant- Dr. A V Mohod	Ultrasonic photocatalytic oxidation reactor in the form of tray tower	2022	Filed	202221030393
9	Inventor and aaplicant- Dr. A V Mohod	Ultrasonic reactor operated in a continuous mode for biodiesel synthesis	2022	Filed	202221030395

Books Published

S.	Title	Name of the	ISBN/ISSN
No		Publisher	Number
1	Ashish V Mohod, Parag R Gogate, Process	Apple Academic	
	Intensification and parametric optimization in	Press in	
	biodiesel synthesis using hydrodynamic	collaboration with	
	cavitation reactors	CRC	
2	M V Bagal, A V Mohod, Technological	360 Degree Waste	
	Developments in Energy Generation from	Management, Volume 1	
	Municipal Solid Waste	(communicated)	

Research Grants Received

S.	Program	Duration	Funding	Grant Amount
No			Agency	
1.	Res Train the trainer	2015-16	VESBE, Hennef	INR 22 Lacs
	workshop in Germany on		Germany	
	Water management in India			
2	Sewage waste water treatment	2018-19	AISSM society, Pune	INR 7 Lacs
	using innovative advanced			
	oxidation processes			
3	Study of rejuvenation of	2018-19	Institute of Engineers,	INR 40,000/-
	effluent remediation by		India	
	continuous flow with visible			
	light induced reactor using			
	nanoparticles			
4	Fabrication and	2014-15	Institute of Engineers,	INR 20,000/-
	manufacturing of water		India	
	purifier: A simple and			
	economic way of treatment			
5	Degradation of Rhodamine	2011-12	Institute of Engineers,	INR 20,000/-
	6G at Pilot Scale Capacity		India	
	using Hybrid Techniques			
	based on Cavitation			

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

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

01	Environment and Green	Semina	February 1 st ,	National	UOP, Pune
	Technology for Sustainable	r	2019 -2 nd ,		
	Developmen		2019		
02	Advances in Reactor Design	Semina	February 27 th ,	National	UOP, Pune
		r	2017 -28 th ,		
			2017		
03	Indo-German Conference on	Confere	May 29 th ,	International	Ministry of
	'Water Management in	nce	2017		Germany and
	India'				VESBE,
					Germany
04	Promising and Innovative	Award	March 26 th ,	National	IIChE PRC
	Young Chemical Engineers		2017.		

Contribution as Resource Person

S.	Place/	Topic	Level(National/Int/	Date
No.	Organization		State/Regional)	
1	AISSMS COE, Pune	Intensification of	National	
		Chemical Processing		Jan 9 th -10 th and
		using Novel Reactors		22 nd , 2015.
2	Madan Mohan	new horizons in	National	May 23 rd , 2020
	Malviya University of	sustainable		
	Technology, UP,	development		
	India.			

Details of Worshop / STTP / FDP / Conferences Attended

S. N	Title	Туре	Duration	Organizer	Sponsoring Agency

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Sewage treatment plant at pilot scale, Indo-German collaboration, R&D coordinator
	Water management coordinator, Central R&D laboratory in charge, Chairman of
	Chemical Engineering Subject in University of Pune, NAAC (accreditation),
	Department of advisory board, R&D coordinator, foreign collaboration coordinator,
	Examination coordinator, Mass transfer operation and Central research Laboratory
	incharge, Guest lecture, Science project exhibition, Winter research training program,
	conferences, workshops, seminars organized

Awards Received

S. No.	Awards
1	M. P. Chary Memorial Outstanding Young Chemical Engineering Award 2017 for research
	and technological contribution (below 35 years). The M P Chary Memorial Award was
	constituted by Indian Institute of Chemical Engineers (IIChE), India.

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

Dr. A V Mohod

(Name with Signature)