

Curriculum Vitae



1. Name: Dr. S.V. Khedkar
2. Designation & Department: Assistant Professor, Chemical Engineering
3. Correspondence address: 'Gopal', Near Malokar Hospital, Civil Lines,
Akola, 444001
4. Email & contact number: satish.khedkar@coeta.ac.in, 9850310172
5. Date of Birth: 13/11/1964

6. Academic Qualification (Undergraduate Onwards)

SN	Degree	Year	Subject	University	% of marks /CGPA
1	B.Tech	1990	Chemical Engineering	SGBAU, Amravati	65%
2	M.E.	2007	Environmental Engg	SGBAU, Amravati	62%
3	Ph.D.	2018	Environmental Engg	SGBAU, Amravati	--
4	M.I.R.P.M	2010	Human Resource	SGBAU, Amravati	62.17

7. Ph.D thesis title: Study of Ultrasound As An Advance Oxidation Technology For Treatment of
Water And Industrial Wastes
Year of Award. : 2018

8. Work experience (in chronological order).

SN	Designation	Name of the Institute	From	To
1	Assistant Professor	College of Engg. & Tech, Akola	24/10/1993	30.11.24
2.	Assistant Professor	College of Engg. & Tech, Akola	01/02/25	Till date

9. Professional Recognition/ Award/ Achievement/ Certificate received.

SN	Name of Award	Awarding Agency	Year
1	Rashtriya Garav Award	IIFS, New Delhi	2014
2	Best Paper Award	Raysoni, Amravati	2020

10. Publications (*List of papers published in Journals, in year wise descending order*).

SN	Authors	Paper Title	Journal Title	ISBN/ISSN No	Vol. No.	Page No	Year
52	S. V. Khedkar, N.S.Topare P. V. Thorat, U. M. Reddy, A. Khan, M. Chavali, S. Faheem	Ultrasonic and Mechanical Stirring Methods for Bio-diesel Production Using Cotton Seed Oil & Sesame Oil	AIP Conf Pro, 3360,040002 (2025)	https://doi.org/1063/5.0305977	AIP Conf Pro, 3360,040002 (2025)	040004-1 to 040004-8	2025
51	S. V. Khedkar P. Polshettywar, N. S.Topare, P. V. Thorat, M. Chavali, A. Khan,	Review on Potential Application of Graphite Carbon Nitride as Adsorbent/ Photocatalyst for Wastewater Treatment	AIP Conf Pro, 3360,040002	https://doi.org/1063/5.0305973	AIP Conf Pro, 3360,040002 (2025)	040001-1 to 040001-15	2025
50	S. V. Khedkar, N.S.Topare, ,P. V. Thorat, M. Chavali,	Influence of Nano Catalysts on Bio-Diesel Synthesis: A Review	AIP Conf Pro, 3360,040002	https://doi.org/1063/5.0305974	AIP Conf Pro, 3360,040002 (2025)	040002-1 to 040002-16	2025
49	S.V. Khedkar N.S.Topare, P. V. Thorat, Sunita J. Raut	Review on Adsorption: An Ecofriendly Method For Dye Removal	AIP Conf Pro, 3360,040002	https://doi.org/1063/5.0305975	AIP Conf Pro, 3360,040002 (2025)	040003-1 to 040003-18	2025
48	S.V. Khedkar N.S.Topare A. Khan, S. Bokil, S. Shinde	AReview on Effects of Operating Parameters in Batch and Column Mode for Adsorption of Methyl Violet Dye	International Journal		Volume 10 Issue 3	488-501	2023
47	S.V. Khedkar N.S.Topare A. Khan	A Review on application of nano catalyst for production of bio diesel using different feedstock	Materials Today: Proceedins	Elsevier	72	324-335	2023
46	S.V. Khedkar N.S.Topare A. Khan, , S. J.Raut, A.M.Ansari	Batch Reactor System(BRS): Effective conversion of cooking oil into biodiesel in presence of different catalyst	IJCAM	Springer Nature Singapore Book	Book	63-73	12/11/22
45	Dr. S.V.Khedkar S.Topare, Anish Khan,Shantini Bokil	Niobium Penta-oxide as an Efficient Photocatalyst for photocatalytic Degradation of Rhodamine B	AQUA Water	https://Doi.org/10.2166/aqua.2022.218	Vol 71 No 12,	1344-1350	2022
44	S. V. Khedkar N. S. Topare, Kiran D. Patil,	Effects of operating parameters on biodiesel production from waste cooking oil under ultrasonic irradiation	Materials Today: Proceeding	ISSN: 2214-7853	46	10638–10641	2021
43	Satish V. Khedkar Niraj S. Topare, K. D. Patil,	Design, Fabrication of multifunctional reactor system and its application for biodiesel production	AIP Conference Proceedings	AIP LLC	2417	030002	2021`
42	Satish V. Khedkar N.S.Topare Kiran D. Patil	Synthesis of Biodiesel from Waste Cooking Oil and Emission Characteristics of Its blends	IOP Conference Series: Materials Science & Engg	ISSN: 1757-899X	983, 2020, 012015	DOI 10.1088/1757/899X/983/1/012015	2020
41	Satish V. Khedkar Shantini A. Bokil, Niraj S. Topare, ,	Batch Adsorption Studies on Treatment of Textile Industry Effluent using Bamboo & Green Coconut shell Activated Carbon	IOP Conference Series: Materials Science and Engineering	ISSN: 1757-899X	983(1), 012005	1-20	2020
40	Satish V. Khedkar ,Niraj S. Topare, Kiran D. Patil,	Comparative study of ultrasonic & con. method for biodiesel production using different heterogeneous catalyst	Journal of Indian Chemical Society	ISSN: 0019-4522	97 (11b)	2446-2452	2020

39	S. V. Khedkar, N. S. Topre, S. Surange, A. Chaudhari, Sunita Raut, S. A. Bokil	Adsorption of Rhodamine-B by Using Citrus Peel Powder: Influence of Operating Parameters	Journal of Indian Chemical Society	ISSN: 0019-4522	97 (11a)	2188-2194	2020
38	Satish V. Khedkar Niraj S. Topare, , Kiran D. Patil, Nilesh Inamdar	Design, Fabrication of Multi-Functional Reactor System and Its Application for Biodiesel Production	AIP Conference Proceedings	ISSN: 1551-7616	30002,	2417	2020
37	S V.Khedkar, N.W.Ingole	Comparative Degradation of Aspirin	IJRSET	e-ISSN2319-8753	Vol7,Issue 9	9411-9416	Sept 2018
36	Satish V.Khedkar Dr.P.V.Thorat	Desulphurization of kerosene by Adsorption process	IJRSET	e-ISSN2319-8753	Vol7,Issue 9	9417-9423	Sept 2018
35	Satish V.Khedkar Dr.N.W.Ingole	Control of Emerging Contaminants in Drinking Water Using Suitable Methods	IOSR JESTFT	e-ISSN 2319-6710	Vol11Issue 6 Vol II	66-71	June 17
34	Satish V.Khedkar Dr.N.W.Ingole	Kinetic Modelling of Aspirin Degraded By Ultrasonication From Wastewater	JIWWA	ISSN 0970-275X		89-91	April-June17
33	Satish V.Khedkar Dr.N.W.Ingole	Optimization of Sonication Process Using Taguchi Method	IJNIET	ISSN: 2319-6319	Volume 7 Issue 2		
32	Satish V.Khedkar Dr.N.W.Ingole	Applications of Computer Science in Environmental Models.	IJTEMAS	ISSN 2278-2540	Volume VI, Issue III		March 2017
31	S V.KhedkarP.V.Thorat P.S.Pande, R.P.Goplani	Study of separation of pigments in paints for dev of multi-color paint	Journal for research		3(04)		2017
30	Satish V.Khedkar Dr.N.W.Ingole	“Statistical Methods in Env Engg-Sonication A Practical Study	IJRSET IF 6.209	ISSN-2319-8753	Vol6issue7		2017
29	Satish V.Khedkar Dr.N.W.Ingole	Effect Of Sonication On COD Of Industrial Waste Water	IJPARET	ISSN: 2319-507X	Volume 5 (2):	133-140	
28	S. V.Khedkar, N.W.Ingole	Adv Oxidation Tech for Control of Priority Pollutants in Waste Water	IJIERE	ISSN:2582-8746	Volume 3, Special Issue 1,		ICSTSD 2016
27	Satish V. Khedkar Hitesh Gajbhiye	Studies In Energy Generation From Cow Dung In Microbial Fuel Cell	IJPRET, IF-4.226	ISSN:2319-507x	Volume 4(8)	348-351	2016
26	Satish V. khedkar Payal Bhautik	Studies in purification of Bio Gas using algae in sewage wastewater	IJPRET, IF-4.226	ISSN:2319-507x	Volume 4(8)	49-58	2016
25	Satish V. Khedkar Hitesh Gajbhiye	A Review on Microbial Fuel Cells For Electricity Generation	ISSN 2231-5381 IF-4.226	ISSN:2319-507x		238-240	
24	Satish V. khedkar Surat Sureka	Review - Membrane Waste Water Reclamation Needs In India.	IJPRET, IF-4.226	ISSN:2319-507x	Volume 3(8):	95-108	2015
23	S. V. Khedkar, P. Bhautik	Studies in purification of Bio Gas using algae in sewage waste water-A review	IJPRET, IF-4.226	ISSN:2319-507x	Volume 3(8):	95-108	2015
22	S. V. Khedkar, N. Thanvi	Photocatalytic Degradation of 2-Chloro-ethane Phosphonic Acid Using TiO2	CTIJTM IF-5.941	ISSN No.: 2278-7518	Vol 7 issue 2		April15-Sept15
21	S. V. Khedkar, S. L. Bhagat	Review on Gas Hydrates As Future Fuel	CTIJTM,IF-5.941	ISSN No.: 2278-7518	Vol 7 issue 2		Sept15
20	S. V. Khedkar, H. Ganvir	Ultrasonic Biodiesel Production-Review	IJEAT,IF-2.991	ISSN No 2321-8134	239-250	239-250	June 2014
19	S. V. Khedkar,S. L. Bhagat	Fuel Cell Technology for Vehicles	IJTT, IF-1.752	ISSN No: 2277-4114	IVol 3, No.4		2013

18	S. V. Khedkar, N. S. Topare Sunita J. Raut	A Study of Process Variables For The Photo-Catalytic Degradation of Rhodamine-B Using TiO ₂ & Nb ₂ O ₅	JTICS	ISSN 0019-4522	2013 12/12/ Vol 90		2013
17	Satish V. khedkar V.C.Renge, S Pande	Removal of Heavy Metals from Water Using Low Cost Adsorbents	Sci. Revs. Chem. Comm.		2(4)	580-584	2012
16	Satish V. khedkar V.C.Renge	Enzyme Synthesis by Fermentation Method-A Review	SRCC 580-584		2(4)	585-590	2012
15	Satish V. khedkar Dr.N.W.Ingole	The Ultrasound Reactor Technology-A Tech. For Future	IJAERS	E-ISSN2249-8974	Vol II(I)/oct- /.	72-75	dec,2012
14	S. V. Khedkar, V.C. Renge	Photocatalytic Oxidation and Reactors	IJAET	E-ISSN2249-8974	Vol III(IV)/oct- /.	31-35	dec/2012
13	Satish V. khedkar V.C. Renge, K.S.Bhoyar	Micro pollutant removal from wastewater treatment plant:Review	IJAET	E-ISSN2249-8974	Vol III(IV)/oct- /	27-30.	dec/2012
12	Satish V. khedkar Y.P.Chavan, V.C.Renge	Adsorption of Phenol onto Jamun tree Leaf Powder	IJCER	E-ISSN 2394-5370	3(1)	1-7	2012
11	N.S.Topare, S G. Chopade V.C.Renge, S V. Khedkar,	An Algae Bioreactor from Recycle Water Bottle for Cultivation of Algae	IJER	ISSN : 0974-4290	4(1)	112-115	2012
10	S. V. Khedkar, N.S.Topare	MUR system for biodiesel production	CEW		47 (10)	76-78	2012
09	Satish V. khedkar Niraj S. Topare Y.P.Chavan, S.L.Bhagat	Experimental investigations for the Production of Biodiesel from Algae Oil using Trans-Esterification method	IJESDM		3(1)	1-7	2012
08	S. V. Khedkar, N. S. Topare Y.P.Chavan, S.L.Bhagat	Biodiesel Production From Jatropha Curcas Oil	IJCS	Sadguru Publications	9 (4)	1607-1612	2011
07	Satish V. khedkar N.S.Topare	Biodiesel from Algae Oil as an Alternative Fuel for Diesel Engine	IJCEPR	SSN: 2229-5283	2 (3-4)	116-120	2011
06	Satish V. khedkar N.S.Topre, S.L.Bhagat	Production of Activated Carbon from Sugarcane Bagasses	IJAET	ISSN: 2249-8958	2 (3)	356-358	2011
05	Satish V. khedkar	Extraction of oil from Algae by solvent extraction & Oil Expeller method	IJCS	Sadguru Publications	9(4)	1746-1750	2011
04	Satish V. khedkar Y.P.Chavan S.L.Bhagat	Studies On Non- Conventional Adsorbents For Removal of Phenol From Waste Water.	IJESDM	ISSN 2231-1289	2(1)	1-6	2011
04	Satish V. khedkar Y.P.Chavan S.L.Bhagat A.P.Pardey	A Comparative Study of Acid Hydrolysis Of Cellulosic Waste For Manufacturing Microcrystalline Cellulose.	IJCS	Sadguru Publications	8(4)	2236-2240	2010
03	S.V.Khedkar, Y.P.Chavan S.L.Bhagat, R. Shripewar	Adsorption of Phenol From Waste Water Onto Fly Ash	NCRAEE	Conference Proceedings	Conf. Proc. Volume	13-17	2010
02	Y.P.Chavan, S.L.Bhagat S.V.Khedkar	Membrane Centrifuge, "A Novel Separation Technique For Oil Filtration"	NCETETM	Conference Proceedings	Conference Proceedings Volume	343-349	2010
01	S.V.Khedkar, M.G.Borikar Y.P.Chavan, S.L.Bhagat	Ultrasound Application In Waste Water Treatment	NCRAEE	Conference Proceedings	Conference Proceedings	106-109	2010

11. Detail of patents/Copy right .

S N	Patent Title	Name of Applicant	Patent No.	Award Date	Country	Status
1	Glass lined sonication probe reactor	Dr. N.W. Ingole, Dr.S.V. Khedkar	346891	16/09/20	India	Granted
2	Chemical Oxygen Demand (Permanganate) by Sonication Method	Dr. N.W. Ingole, Dr.S.V. Khedkar	Appl. No 2017210044 98	Not Awarded	India	FER Done
3	Device for Algae Cultivation	Dr.P.V.Thorat Dr.S.V. Khedkar Dr.N.S. Topare Anish Khan	427748-001	11/11/25	India	Granted

12. Books/Reports/Chapters/General articles etc.

SN	Title	Author	Publisher	Year of Publication
1.	Algae Biodiesel as An Alternative Fuel For Diesel Engines	N. S. Topare, V.C.Renge, S.V. Khedkar	Lambert Academic Publishing House, Germany	2012
2.	Heterogeneous Catalysis for Biodiesel Production Under Ultrasonication	N.S. Topare, K. D. Patil, S.V. Khedkar	Lambert Academic Publishing House, Germany	ISBN: 978-620-2-81474-4-2020
3.	A Study of Process Parameters for Adsorption of Textile Industry Wastewater Using Low-Cost Adsorbent (Bamboo Activated Carbon)	S. A. Bokil, N. S. Topare S. V. Khedkar	Techno-Societal 2020, Springer, Cham, 869	ISBN: 978-3-030-69925-3-88
4,	Lab Scale Batch Reactor Design, Fabrication and Its Application for Biodiesel Production	N.S. Topare, K. D. Patil, S.V. Khedkar, N. Inamdar	Techno-Societal 2020, Springer, Cham, 819	2020
5	Biodiesel (Alternative Fuel) Production from Waste Cooking Oil using Different Techniques	H. R. Ganvir, S. V. Khedkar, N. S. Topre K. D.Patil	Environment and Sustainable Development, Asian Press, K'kata	88-100, ISBN: 978-93-90238-67-5
6	Biodiesel Production from Used Cooking Oil in Designed and Fabricated Batch Reactor System	N.S. Topare, K. D. Patil, S.V. Khedkar	Smart Tech. for Energy, Env. & Sustainable Development, Vol-2), Springer Singapore	2020
7	Sonication – Introduction To An Advance Oxidation Technology	Satish Khedkar Dr.N.W.Ingole	Env. Engg – Current Perspective, Ch-25, by Research India Publications New Delhi	2018

13: Field of Expertise / Specialization.: Chemical / Environmental Engineering
Environmental Engineering, Chemical Engineering, Bio-Fuels

Date : 09/12/2023

Dr. S. V. Khedkar