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Qualification- PhD Chemical Engineering

Designation : Associate Professor

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Experience

Teaching- 30 Years

Portfolio at college level:

1. Women Cell In charge
2. NAAC Criteria I in charge at institute level
3. PhD Coordinator
4. Convener National conference: SANVARGAM – 2016
5. PG Coordinator at department level

Conferences: National/ International (Participation and publication):

1. 6th International conference on sustainable systems and the environment, (March 2011), Sharjah, United Arab Emirates.
2. IKS Teaching and Curriculum Designing-Challenges for Teachers and future Pathways, 28-29 March 2025

Publications: National/ International Journal

1. V.B.Vyas, **K.S.Kulkarni**, Electroplating and textile wastewater treatment by combined effect of adsorption and UV , International Journal of Chemical Sciences, 9 (2011) 1647–56.
2. **K.S.Kulkarni**, K.J.Kunte, S.H.Sonawane, A.B.Pandit, UV Photoactivation of Nano/Micro Porous Plant-Derived Carbon and Application to CO₂ Gas Adsorption, International Journal of Green Nanotechnology, 3, (2011) 292-301.

3. B.S.Patil, **K.S.Kulkarni**, Development of high surface area activated carbon from waste material, International Journal of Advance engineering research Studies, 1(2012) 109-113.
4. **K.S.Kulkarni**, A.D.Kulkarni, S.Nage, Comparative study of CO₂ adsorption using different types of fly ash, International Journal of Chemical Sciences, 10, (2012) 1001-1008.
5. R.P.Raut, **K.S.Kulkarni**, Desalination by Membrane distillation, International Journal of Advanced Engineering Research and studies, 1 (2012) 115-121
6. **K.S.Kulkarni**, S. Shetty, Process Intensification of an Intermediate Stage of Cypermethrin Synthesis, International Journal of Innovative Research in Science, Engineering and Technology, 2, (2013) 5617-5621.
7. P. Amale, S.J.Kulkarni, **K.S.Kulkarni**, Studies on Packed Bed Treatment for Organic Matter in Distillery Effluent, International Journal of Engineering Science and Innovative Technology, 3 (2014) 268-272.
8. P. Desai, **K.S.Kulkarni**, CO₂ capture by new adsorbent: Delonix Regia Fruit, International Journal of Advanced Engineering and Technology, 78 (2014) 81-87.
9. A.M.Saleh, **K.S.Kulkarni**, Production of bio-diesel from waste cooking oil by using homogeneous catalyst, International Journal of Chemical Sciences, 12 (2014) 941-951.
10. H.H.Mahadi, **K.S.Kulkarni**, Adsorption of Carbon Dioxide on Orange Peel and Carbon Synthesized from Orange Peel, , International Journal of Chemical Sciences, 12 (2014) 773-784.
11. A.R.Gore, **K.S.Kulkarni**, Comparison of Biodiesel Production From Karanja Seeds, Jatropha Seeds and Thumba Oil , International Journal of Emerging Trends in Science and Technology, 1(2014) 504-509.
12. P.Amale, S.J.Kulkarni, **K.S.Kulkarni**, A review on research for industrial waste water treatment with special emphasis on distillery effluent, International Journal of Ethics in Engineering and Mangement, 1,9 (2014) 1-4.
13. Prashant. L.Chudhari ,Vaijayanti G.Joshi, **Kavita S. Kulkarni**, Prasad P.Patil, Polymer, 10,11 (2016)1-12
14. **Kavita Kulkarni**, Prasanna Beedkar, A.D.kulkarni, International Journal of Science and research,5,6 (2016) 1-6

15. **Kavita Kulkarni**, Ankur Dhiman, S.Kumar, International journal of Chemical Sciences,14(2016)1-8
16. **Kavita Kulkarni**, Ashwini Gajbhiye, Dr. A.D.Kulkarni, Calcium Ion impregnated on water hyacinth for defluoridation of water, International Journal of science and research management , 5(2017) 1.-8
17. **Kavita Kulkarni**, Snehal Thorat, A.D.Kulkarni, Doping of calcium hydroxide on biosorbent for removal of fluoride, International Journal of science and research management, 5(2017) 5679-5686
18. **K.S.Kulkarni**, A.D.Kulkarni, Rakesh Kumar, S.J.Attar, Utilization of fly ash for bricks manufacture, Journal of Engineering Research and Studies,3 (2011) 359-362.
19. **K.S.Kulkarni**, A.D.Kulkarni. N.S.Topare, Opportunities and Challenges for Heterogeneous Catalysis in the Biodiesel Production, Journal of Engineering Research and Studies, 87 (2011)77-79.
20. P.Deshpande, **K.S.Kulkarni**, A.D.Kulkarni, Supercritical fluid technology in biodiesel production: A review ,Chemistry and Materials Research, 1, (2011) 27-32.
21. R.Singh, **K.S.Kulkarni**, A.D.Kulkarni, Application of Appopolite in Adsorption of Heavy Metals (Co and Ni) from Waste Water Journal of Chemistry and Materials Research , 1, (2012) 16-21.
22. **K.S.Kulkarni**, A.D.Kulkarni, S.Nage, N.S.Topare ,Biodiesel Production By a Continuous Process Using a Heterogeneous Catalyst , Journal of Current Chemical and Pharmaceutical Sciences,2, 1, (2012) 12-16.
23. **K.S.Kulkarni**, A.D.Kulkarni, S.G.Chopade, N.S.Topare, Solid heterogeneous catalysts for production of biodiesel from trans-esterification of triglycerides with methanol: a review, Acta Chimica & Pharmaceutica Indica,2, (2012) 8-14.
24. **K.S.Kulkarni** , P.Deshpande, Production and evaluation of biodiesel from palm oil and ghee (clarified butter) , Chemical and Process Engineering Research,2(2012) 33-42.
25. **K.S.Kulkarni** , A.D.Kulkarni, P.Kelut , CO₂ Adsorption By Various Catalysts, Chemical and Process Engineering Research,18 (2014) 7-15.
26. **K.S.Kulkarni** , A.D.kulkarni, P.Singh, Improvement of Synergetic Effect In Heterogeneous Catalysis By Addition Of Metal Oxides ,Chemical and Process Engineering Research,18 (2014) 31-34.

27. M.B.Mane, **K.S.Kulkarni** , A.D.Kulkarni, Mass and Heat Transfer in Solid Catalyst Bed, Chemical and Process Engineering Research,33 (2015) 40-45.
28. **K.S.Kulkarni** , P.L.Chaudhari, VG.Joshi, P.B.Patil, Sonochemical synthesis of polyacrylic acid –Nano CaCo₃ Nano composite for the adsorption of Rhodamine B dye, International Journal of Advanced Technology in Engineering and Science ,3, (2015) 168-176.
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30. S.Dhage, **K.S.Kulkarni** , Adsorption of Carbon Dioxide on Adsorbents Synthesized by Microwave Technique, Journal of Chemical Engineering & Process Technology,6, 6, (2015) 1-5.
31. **Kavita Kulkarni**, A.D.Kulkarni, Pallavi Amale, Sunil Kulkarni, Solute Uptake, Isotherm and Kinetic Studies for Distillery waste water Treatment for Removal of organic matter by low cost adsorbent. International Journal of Petroleum and Petrochemical Engineering, 3, (2017) 56-65.
32. **Kavita Kulkarni**, Gajanana Bhogle,Rujuta Nalawade, Adsorptive removal of fluoride from water samples using *Azospirillum* biofertilizer and lignite, Korean Journal of Chemical Engineering,35,1, (2018) 153-163.Journal of Biomimetics, Biomaterials and Biomedical Engineering, (2022) 56, 37–48.
33. **Kavita Kulkarni** Dhulipudi, S.Chendake, Y. Kulkarni, A, Subrahmanyam, C.V. Adsorptive Removal of Copper and Chromium Ion by Using Azospirillum Biofertilizer as Low-cost Biosorbent in Aqueous Medium, Water, Air, and Soil Pollution, 2022, 233(7), 245
34. **Kavita Kulkarni**, Chendake, Y.Garg, A.Srivastava, P.Adsorptive Removal of Acetic Acid by Walnut Shell as Low-Cost Adsorbent ,Asian Journal of Chemistry, 2022, 34(9), . 2318–2334.
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40. Mandale, P., **Kulkarni, K.**, Jadhav, K., Kulkarni, A., Environmentally friendly remediation of hazardous cationic dye by utilizing cashew nut shell powder as bio-adsorbent ,Rasayan Journal of Chemistry, 2024, 17(4), 1843–1852
41. Kale, P., **Kulkarni, K.**, Kulkarni, Treatment of Textile Reactive Orange HE2R Dye by using Biosorbent Azospirillum and Tricoderma, A. Journal of the Textile Association, 2025, 85(6), 679–687

Patents/ Copyright:

Sr. No.	Title of Invention	Applicant name	Inventor Name	Patent ID Filed date Publication date	Status (Filed/ Published/ Granted)
1	A system for degradation of Rhodamine B dye solution in wastewater	Bharati Vidyapeeth Deemed To Be University College of Engineering, Pune	Ms.Poonam Bodare Dr.Kavita Kulkarni, Dr. A.D.Kulkarni	Patent ID: 202221072299 Filling date: 14/12/2022	09/08/2023 Granted
2	A simple method for the treatment of co-reactive turquoise blue h2gp dye	Bharati Vidyapeeth Deemed To Be University College of Engineering, Pune	Ms.Aishwarya Chawan Dr.Kavita Kulkarni, Shirish Kulkarni, Dr. A.D.Kulkarni	Patent ID: 202521052952 Filling date: 31/05/2025 Publication date: 27/06/2025	Published

Projects/ Achievements:

Recognized PhD guide- Bharati Vidyapeeth (Deemed to be University), Pune

Title of the project	Funding Agency	Amount received (Lakhs)	Year	Role
Sequestration of CO ₂ from industrial Combined Heat and Power Plant by	AICTE	Rs. 5.35	2012 - 2014	Principal Investigator

evolution of solid sorbents as a retrofit technology.				
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