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|  | Name | Dr. Sunita M. Jadhav. | | | | | |
| | Designation | Professor, Department of Chemical Engineering | | | | | |
| | Qualification | Ph.D. Chemical Engg, M. E. Chemical, | | | | | |
| | AICTE ID | I-419844490 | | | | | |
| | Date of joining | 21 July 1997 | | | | | |
| | Contact No. | Cell | 9850601240 | Telephone | 020- 24107258 | | |
| | Email ID | smjadhav@bvucoep.edu.in | | | | | |
| | Experience | Teaching | 22 Years | Industry | -- | Research: | 5 Years |
| Area of Interest | Cavitation based hybrid processes, waste water treatment, process intensification | | | | | | |
| Publications | International Journal (s): | 15 | National Journals (s) : | 04 | | | |
| | International Conference (s): | 01 | National Conference: | 01 | | | |
| Research Publications Details (Last five years) | International Journal: | | | | | | |
| | 1. S. Raut-Jadhav , M. Badave, S.H. Sonawane, D.R. Saini, A.B. Pandit, Treatment of the pesticide industry effluent using hydrodynamic cavitation and its combination with process intensifying additives (H ₂ O ₂ and ozone), Chem. Eng. J. 295 (July 2016) 326-335. (Impact factor- 4.612, indexed in Scopus and Web of Science) | | | | | | |
| | 2. S. Raut-Jadhav , S.H. Sonawane, D.R. Saini, A.B. Pandit, Effect of process intensifying parameters on the degradation of commercial carbamate pesticide (Methomyl) in the aqueous solutions by using hydrodynamic cavitation based hybrid processes, Ultrason. Sonochem. 28 (2016) 283-293. (Impact factor- 4.5, indexed in Scopus and Web of Science) | | | | | | |
| | 3. S. Raut-Jadhav , S.H. Sonawane, D.R. Saini, A.B. Pandit, Intensification of degradation of methomyl (carbamate group pesticide) by using the combination of ultrasonic cavitation and process intensifying additives, Ultrason. Sonochem. 31 (2016) 135-142. (Impact factor- 4.5, indexed in Scopus and Web of Science) | | | | | | |
| | 4. S. Raut-Jadhav , V.K. Saharan, D. Pinjari, S.H. Sonawane, D.R. Saini, A.B. Pandit, Synergistic effect of combination of AOP's (hydrodynamic cavitation and H ₂ O ₂) on the degradation of neonicotinoid class of insecticide, J. Hazard. Mate. 261 (2013) 139– 147. (Impact factor- 5.5, indexed in Scopus and Web of Science) | | | | | | |
| | 5. S. Raut-Jadhav , V.K. Saharan, D. Pinjari, S.H. Sonawane D.R. Saini, A.B. Pandit, Intensification of degradation of imidacloprid in aqueous solutions by combination of hydrodynamic cavitation with various advanced oxidation processes (AOPs), J. Environ. Chem. Engi. 1 (2013) 850-857 (indexed in Scopus) . | | | | | | |
| | 6. Suraksha Rasal, Priyesh V. More, Chaitanya Hiragond, Sunita Jadhav and Pawan K. Khanna, Rapid homogenization method for synthesis of core/shell ZnO/CdS nanoparticles and their photocatalytic evaluation, Adv. Mater. Lett. 7(5) (2016) 390-397. ISSN:0976397X, 09763961 (Scopus indexed-SNIP:1.81, SJR:0.57, H-index:15) | | | | | | |
| | 7. Asmita P. Patil and S. M. Jadhav , Simulation Analysis Of Fully Thermally Coupled Distillation Column, Int. J. Chem. Sci. 14(3) (June 2016)1-12 ISSN 0972-768X (Scopus indexed SJR:0.15, H-index:06) | | | | | | |
| | 8. P.V. Ganorkar, S.M. Jadhav , S.G. Gaikwad, Recative distillation of Nicotinic acid with tri-iso-octylamine(TIOA) in 1-Decanol, International journal of advanced technology in engineering and science 2 (2014) 377-383. (Impact factor- 1.02) | | | | | | |
| | 9. S.V. Nikam, S. M. Jadhav , Photocatalytic degradation of metamitron (herbicide) in aqueous solution, International journal of advanced technology in engineering and | | | | | | |

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| | <p>science 2 (2014) 424-432. (Impact factor-1.02)</p> <p>10. Y.D. Thakare, S. M. Jadhav, Degradation of brilliant green dye using cavitation based hybrid techniques, International Journal of Advanced Engineering Technology IV (2013) 31-36. (Impact factor-1.121)</p> <p>11. B. Salunkhe, S. J. Raut, Removal of Heavy Metal Ni (II) And Cr (VI) from aqueous solution by Scolecite natural zeolite, Int. J. Chem. Sci. 10 (2012) 1133-1148. (Impact Factor-1.15)</p> <p>12. S. Patil, S. J. Raut, Synthesis and characterization of ZnO Nanoparticles and 50% ZnO – bentonite nanocomposite, Int. J. Chem. Sci. 10 (2012) 1124-1132. (Impact Factor-1.15)</p> <p>13. N.S. Topare, S.J. Raut, S.J. Attar, 3D Model Design and Simulation of Photocatalytic Reactor for Degradation of Dyes Using Solidworks Software, Int. J. Chem. Sci. 10 (2012) 808-816. (Impact Factor-1.15)</p> <p>14. N.S. Topare, S.J. Raut, Extraction of oil from Algae by solvent extraction and oil expeller method, Int. J. Chem. Sci. 9 (2011) 1746-1750. (Impact Factor-1.15)</p> <p>15. N.S. Topare, S.J. Raut, Biodiesel production from Jatropha Curcas Oil, Int. J. Chem. Sci. 9 (2011) 1607-1612. (Impact Factor-1.15)</p> <p>National Journal:</p> <p>1. N.S. Topare, S.J. Raut, Novel Design of Laboratory Scale Photo-catalytic Reactor for Degradation of Dyes, Chemical Product Finder 31 (2012) 35-38.</p> <p>2. N.S. Topare, S.J. Raut, V.C. Renge, S.V. Khedkar, A Study of Process Variables for the Photo-catalytic Degradation of Rhodamine-B Using TiO₂ & Nb₂O₅, Journal of Indian Chemical Society 90 (2013) 2193-2198. (Impact factor-0.435)</p> <p>3. N.S. Topare, S.J. Raut, Novel Design of Laboratory Scale Photo-catalytic Reactor for Degradation of Dyes, Chemical Engineering World 47 (2012) 59-62.</p> |
| Research Projects | <p>Project completed:</p> <p>Title of the project : The study of degradation of organic pollutants using cavitation based hybrid techniques.</p> <p>Funding agency : TEQIP- II</p> <p>Duration : 2013- 2014</p> <p>Amount : 2.40 Lacs</p> <p>Status : Completed</p> <p>Project ongoing:</p> <p>Title of the project : Photocatalytic and Sonophotocatalytic Degradation of Organic Pollutants under Visible Light</p> <p>Funding agency : TEQIP- II</p> <p>Duration : 2016-2018</p> <p>Amount : 2.985 Lacs</p> <p>Status : Ongoing</p> |
| Books / Book chapters Published | Niraj S. Topare, Sunita Raut, Photocatalytic Reactor Design & Its Application, Lambert Academic Publishing House, Germany, 2012 |
| Professional Memberships | <p>1. Life member IICHe</p> <p>2. Life member ISTE</p> |
| Workshop/ Seminar/ Conference attended | <p>1. UGC Networking Resource Centre-Summer Research Fellowship, Institute of Chemical Technology, Mumbai (April 2012- June 2012)</p> <p>2. TEQIP-II sponsored workshop on “Mantras for personal effectiveness”, (August 2013).</p> |

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| | <ol style="list-style-type: none"> 3. Participated in workshop on “How to draft patent and conduct searches”, organized by Brainiac IP Solutions Pvt. Ltd., Pune. Venue-MCCIA Tower, Pune, Date- 3-4 February 2018. 4. Participated in workshop on “Problem based learning” organized by NITTTR, Kolkata, Date- 25-29 June 2018. |
| Achievements | <ol style="list-style-type: none"> 5. Best Researcher Award by Bharati Vidyapeeth Deemed University on 26th April 2016 (University foundation day) 6. Award of UGC Networking Resource Centre-Summer Research Fellowship, Institute of Chemical Technology, Mumbai (24 April 2012- 23 June 2012) 7. Certificate of appreciation for valuable contribution in the capacity of member of Core Committee of NANOCON-012 and NANOCON-014 |
| Extra Activities | <ol style="list-style-type: none"> 1. In-charge, Research and Development Cell. 2. Core committee member of International Conferences, NANOCON-010, NANOCON-012, NANOCON 014 and NANOCON-016 organized by BVUCOE, Pune. 3. Co-convener, International conference- NANOCON-018 organized by BVUCOE, Pune, Date-25-25 October 2018. 4. Convener - National workshop on ‘Applications of MATLAB’ at B.V.D.U.C.O.E. Pune in association with CDAC Pune, (May 2018). 5. Conducted social initiative programme named “Engagement of People with Science and Technology” for Mamasahab Mohol Madhyamik Vidyalaya, Warje, Pune on 25/04/2018 6. Convener, TEQIP-II sponsored workshop on “Research Methodology”, (October 2015) 7. Convener, TEQIP-II sponsored workshop on “Advanced statistical methods and software tools for the analysis of data”, (March 2016) 8. Convener, TEQIP-II sponsored workshop on “Preparation of research proposals to funding agencies”, (December 2016) 9. Convener, TEQIP-II sponsored workshop on “Patent drafting and filing”, (March 2017) 10. Co-Chairman for session- “Synthesis, characterization and applications” in NANOCON-014, (October 2014) 11. Member, Board of Studies, Chemical Engineering, BVUCOE. 12. Member of Faculty of Engineering and Technology, BVU. |