

	<b>Name</b>	<b>Dr. Prakash V. Chavan</b>					
	<b>Designation</b>	<b>Professor and Head</b>					
	<b>Qualification</b>	<b>Ph. D. ( Tech.) (Chemical Engineering)</b>					
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	<b>Date of Joining</b>	<b>01 December 2011</b>					
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	<b>Experience</b>	<b>Teaching :</b>	6 Years	<b>Industry :</b>	3 Years	<b>Research:</b>	8 Years
<b>Area of Interest</b>	Multiphase Reactors, Waste Water Treatment, Bioprocess Engineering						
<b>Publications</b>	<b>International Journal (s):</b>	24	<b>National Journals (s) :</b>	01			
	<b>International Conference (s):</b>	01	<b>National Conference:</b>	05			
<b>Research Publications Details (Last five years)</b>	<p><b>International Journal</b></p> <p>(1) M. A. Khedkar, P. R. Nimbalkar, S. G. Gaikwad, <b>P. V. Chavan</b>, S. B. Bankar, Sustainable biobutanol production from pineapple waste using <i>Clostridium Acetobutylicum</i> B 527: Drying kinetics study. <i>Bioresour Technol</i>, 225, (2017), 359- 366.</p> <p>(2) P. R. Nimbalkar, M. A. Khedkar, S. G. Gaikwad, <b>P. V. Chavan</b>, S. B. Bankar, New insight into sugarcane industry waste utilization (press mud) for cleaner biobutanol production by using <i>c. acetobutylicum</i> NRRL B-527. <i>Applied Biochemistry &amp; Biotechnology</i>, (2017) Accepted.</p> <p>(3) M. A. Khedkar, P. R. Nimbalkar, <b>P. V. Chavan</b>, Y. J. Chendake, S. B. Bankar, Cauliflower waste utilization for sustainable biobutanol production: revelation of drying kinetics and bioprocess development. <i>Bioprocess &amp; Biosystem Engineering</i>, (2017) Accepted for publication.</p> <p>(4) S. S. Pawar, <b>P. V. Chavan</b>, S. B. Bankar, Production of bio-ethanol from biomass (Press Mud). <i>International Journal of Advance Research, Ideas &amp; Innovation in Technology</i>, 3, (2017), 1550- 1555.</p> <p>(5) S. S. Yadav, N. A. Mali, S. S. Joshi, <b>P. V. Chavan</b>, Isobaric vapor-liquid equilibrium data for the binary systems of dimethyl carbonate with xylene isomers at 93.13 kPa. <i>Journal of Chemical &amp; Engineering Data</i>, (2017), Accepted.</p> <p>(6) P. V. Chavan, M. A. Thombare, S. B. Bankar, D. V. Kalaga, V. A. Patil-Shinde, Novel multistage solid-liquid circulating fluidized bed: Hydrodynamic characteristics. <i>Particuology</i>, (2017), Accepted.</p> <p>(7) M. A. Thombare, P. V. Chavan, S. B. Bankar, D. V. Kalaga, Solid-liquid circulating fluidized bed: A way forward. <i>Reviews in Chemical Engineering</i>, (2017), Accepted.</p> <p>(8) M. A. Khedkar, P. R. Nimbalkar, <b>P. V. Chavan</b>, S. B. Bankar, Peas pod waste as substrate for biobutanol production using <i>c. acetobutylicum</i> b-527: impact of drying on saccharification and ABE fermentation. <i>Renewable Energy</i>, (2017), Accepted.</p> <p>(9) J. A. Chougale, S. B. Bankar, <b>P. V. Chavan</b>, V. B. Patravale, R. S. Singhal, Supercritical carbon dioxide extraction of astaxanthin from <i>Paracoccus</i> NBRC 101723: Mathematical modelling study. <i>Separation Science and Technology</i>, Accepted.</p> <p>(10) Y. H. Shinde, A. S. Gudekar, <b>P. V. Chavan</b>, A. B. Pandit, J. B. Joshi, Design and development of energy efficient continuous cooking system. <i>Journal of Food Engineering</i>, 168, (2016), 231–239.</p> <p>(11) P. K. Mali, P. V. Chavan, Vapor liquid equilibrium data generation for acetic acid and p-xylene at atmospheric pressure. <i>International Journal of Chemical Sciences</i>, 14, (2016), 1- 9.</p> <p>(12) P. K. Mali, <b>P. V. Chavan</b>, Vapor liquid equilibrium data generation for acetic acid and</p>						

p-xylene at atmospheric pressure. *International Journal of Chemical Science*, 14, (2016), 1-9.

(13) M. M. Gore, V. K. Saharan, D. V. Pinjari, **P. V. Chavan**, A. B. Pandit, Degradation of reactive orange 4 dye using hydrodynamic cavitation based hybrid techniques. *Ultrasonics Sonochemistry*, 21, (2014), 1075–1082.

(14) P. Singh, S. P. Kamble, **P. V. Chavan**, Kinetics of esterification of citric acid with butanol using sulphuric acid. *International Journal of Chemical Sciences*, 12, (2014), 915-920.

(15) R. Bhole, **P. V. Chavan**, S. R. Satpute, Acid value reduction of jatropha oil for high quality biodiesel. *International Journal of Engineering Research and Science and Technology*, 3, (2014), 228- 232.

(16) N. N. Maher, S. R. Satpute, **P. V. Chavan**, Degradation of potassium permanganate using acoustic cavitation. *International Journal of Advanced Engineering Technology*, 2, (2014), 15- 17.

(17) M. M. Gore, **P. V. Chavan**, Hydrodynamic cavitation using degradation of reactive orange 4 dye. *International Journal of Chemical Sciences*, 11, (2013), 1314-1320.

(18) S. R. Satpute, Y. H. Shinde, **P. V. Chavan**, Esterification of phthalic anhydride with 2-ethylhexanol. *International Journal of Research in Advent Technology*, 1, (2013), 553-568.

(19) C. S. Shende, **P. V. Chavan**, Decolorization of phthalate plasticizer using activated carbon. *International Journal of Advanced Engineering Technology*, 4, (2013), 14- 15.

(20) J. B. Joshi, A. B. Pandit, S. B. Patel, R. S. Singhal, G.K. Bhide, K. V. Mariwala, B. A. Devidayal, S. P. Danao, A. A. Ganguli, A. S. Gudekar, **P. V. Chavan**, Y. H. Shinde, Development of efficient designs of cooking systems. II. Computational fluid dynamics and optimization. *Industrial Engineering and Chemistry Research*, 51 (2012), 1897–1922.

#### **National Journal**

(1) C. S. Shende, **P. V. Chavan**, Esterification of phthalic anhydride with *n*-butanol using homogeneous catalysts. *Journal of Indian Chemical Society*, 91, (2014), 1355-1359.

#### **Manuscript Communicated**

(1) M. A. Thombare, S. B. Bankar, D. V. Kalaga, R. K. Kulkarni, S. r. satpute, **P. V. Chavan**, Novel Multistage Solid-Liquid Circulating Fluidized Bed: Mixing Study. *Industrial Engineering Chemistry and Research*.

(2) D. V. Bhotmange, S. B. Bankar, **P. V. Chavan**, R. S. Singhal Fermentative production of chondroitin-like molecule from *Exiguobacterium indicum* A11. Submitted to *Engineering in Life Sciences*.

#### **International Conferences**

1. S. R. Satpute, **P. V. Chavan**, S. T. Revankar, Bunsen reaction, phase separation study for SI Thermochemical cycle to produce hydrogen from non-fossil sources for sustainable development, International Conference on “Sustainable Development” Shram Sadhana Bombay Trust, College of Engineering and Technology, Bambhori, Jalgaon, 25- 26 February 2014

#### **National Conferences**

1. **P. V. Chavan**, M. D. Thombre, Flow characteristics of solid liquid circulating fluidized bed, REACT 2016: A national conference on “Recent trends in chemical engineering and technology” Laxminarayan Institute of Technology, Nagpur 26- 27 February 2016

2. M. V. Khedkar, P. K. Nimbalkar, S. B. Bankar, **P. V. Chavan**, Biobutanol- The next generation biofuel, MITS 2016: : A national conference on “Modern and innovative tools for sustainability” Maharashtra Institute of Technology, Pune 25- 26 February 2016

	<p>3. <b>P. V. Chavan</b>, M. D. Thombre, A novel solid liquid circulating fluidized bed, Sanvargam 2016: A national conference on “Energy and Environment” Bharati Vidyapeeth University, College of Engineering, Pune 26- 27 March 2016</p> <p>4. M. V. Khedkar, P. K. Nimbalkar, S. B. Bankar, <b>P. V. Chavan</b> “Biobutanol”, Sanvargam 2016: A national conference on “Energy and Environment” Bharati Vidyapeeth University, College of Engineering, Pune 26- 27 March 2016 (<i>Poster</i>)</p>
<b>Research Projects</b>	<p><b>(1) Novel Solid- Liquid Circulating Fluidized Bed Reactor: Hydrodynamic and Mixing Studies</b>  Funding agency : DST-SERB, Gol  Amount : Rs. 28.05 L  Duration : 2014- 2017  Status : Completed</p> <p><b>(2) Synthesis using Esterification Reaction</b>  Funding agency : TEQIP-IIDST-SERB, Gol  Amount : Rs. 2.20 L  Duration : 2013-2015  Status : Completed</p> <p><b>(3) Valorization of Agricultural Waste to Bio-fuels</b>  Funding agency : TEQIP-II  Amount : Rs. 2.99 L  Duration : 2017-2019  Status : Ongoing</p>
<b>Books / Book chapters Published</b>	<p>(1) S. B. Bankar, P. R. Nimbalkar, P. V. Chavan, R. S. Singhal, R. S. Singhal, V. B. Patravale, N. A. Kadwadkar, , <b>P. V. Chavan</b>, <i>Microbial Poyamino Acids: An Overview for Commercial Attention (XII)</i>. Role of Material Science in Food Bioengineering, Elsevier Ltd. (ISBN: 978-0-12-811448-3).</p> <p>(2) M. A. Thombre and <b>P. V. Chavan</b>, <i>Flow Characteristics of Novel Solid Liquid Circulating Fluidized Bed</i>. Novel Water Treatment and Separation Methods. Apple Academic Press, Taylor and Francis Distribution, NJ, 203- 217. (ISBN:978-1-315-22539-5)</p>
<b>Professional Memberships</b>	Indian Institute of Chemical Engineers
<b>Workshop/ Seminar/ Conference attended</b>	<p>(1) High Impact Presentations. Del-Carnegie at BVUCOE Pune (Sept. 2015)</p> <p>(2).Outcome Based Education. College of Engineering, Pune (March 2014)</p>
<b>Rewards/Honors</b>	(1) Recognized Doctoral and Post graduate student guide of Bharati Vidyapeeth University, College of Engineering for Chemical Engineering programme
<b>Extra Activities</b>	<p>(1) Technical Education Quality Improvement Programme-II (TEQIP-II) Co-coordinator</p> <p>(2) Chairman, Board of Studies (Department of Chemical Engineering)</p> <p>(3) Member, Faculty of Engineering and Technology</p> <p>(4) Co-chairman at 3<sup>rd</sup> International Conference NANOCON 014–Smart Materials, Composites, Applications and New Inventions, Pune (2014)</p> <p>(5) Session Chairman at Sanvargam- 016: A National Conference on Energy and Environment, Pune (2016).</p>