

Ashish V Mohod
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Department of Chemical Engineering
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Educational Qualifications

1. PhD in Chemical Engineering (Appearing), ICT (UDCT), Mumbai
2. M. Chemical Engineering, ICT (UDCT), Mumbai.
3. B. E. Chemical Engineering, COET, Akola.

Experience

Teaching: 5.8 Years

Industry: 00 years

Research: 5.8 Years

Awards and Achievements

- 21 Days (April 18, 2015 to May 10, 2015) participated & trained on waste water treatment and water purification training programme at University of Stuttgart, Germany.
- One Month (Jan 15, 2015 to Feb 15, 2015) worked as research scholar at University of Sao Paulo, Sao Paulo, Brazil on the topic of synthesis of Biodiesel using waste cooking oil.
- Sponsored Project from Institute of Engineers in the year of 2014-15 for Rs. 20000 for the topic “Fabrication and Manufacturing of Water Purifier: A Simple and Economic way of Treatment”
- Best Research Project at West Zone at Engineering level in ANVESHAN 2012-13

- Joint Project with National Chemical Laboratory, Pune with the topic “Manufacturing of Iso-Nicotinic acid”
- Sponsored Project from Institute of Engineers in the year of 2011-12 for Rs. 20000 for the topic entitled “Degradation of Rhodamine 6G at pilot Scale capacity using hybrid techniques based on Cavitation”
- Award of UGC scholarship from July 2008 to May 2010 for PG Programme
- **GATE-2005 Qualified (Per. Score: 79.80)**

Research

Guided to UG students with topics of waste water Treatment, Grease Manufacturing, Polymer depolymerisation, Crystallization of sugar, Synthesis of medium chain triglyceride, Synthesis of biodiesel and many more. However in case of seminar, topics were antimatter, intensification process for Hydrolysis of starch by using cavitation phenomenon, petrol from plastic, Biochips, Recovery of oil by using biotechnology, enzyme production, Impact of Nanotechnology, space debris, green IT etc.

No. of Students guided for Research Project for UG- 33 + 08 ongoing

No. of Students guided for Seminar UG-85

Publications

Patents: 02

- 1. Filed Indian Patent on novel waste water treatment technique with a application number “2130/MUM/2014”**
- 2. Filed Indian Patent on development of new catalyst with a application number “2131/MUM/2014”**

In Journals:

International: 05 + 04 Ongoing

- Yogesh S Karanjkar, Raveena M Dinde, Nikita M Dinde, Kanchan N Bawankar, Shruti P Hinge, **Ashish V Mohod**, Parag R Gogate, Degradation of magenta dye using different approaches based on ultrasonic and ultraviolet irradiations:

Comparison of effectiveness and effect of additives for intensification, *Ultra. Sono.*, 27 (2015)117-124 (I.F-3.52)

- Nileema Bokhale, Snehal Bomble, Rachana Dalbhanjan, Deepika Mahale, Shruti Hinge, Barnali Banerjee, **Ashish V Mohod**, Parag Gogate, Sonocatalytic and Sonophotocatalytic degradation of Rhodamine 6G containing wastewaters, *Ultrasonic Sonochemistry*, 21(5)(2014)1797-1804 (I.F-3.52)
- Indrajeet Pawar, Prathmesh Joshi, Akshay Kadam, Nishant Pande, Priyanka Kamble, Shruti Hinge, Barnali Banerjee, **Ashish V Mohod**, Parag R Gogate, Ultrasound based treatment approaches for intrinsic viscosity reduction of Poly Vinyl Pyrrolidone, *Ultrasonic Sonochemistry*, 21(2014)1108-1116 (I.F-3.52)
- Barnali S. Banerjee, Archana V. Khode, Amit P. Patil, **Ashish V. Mohod** Parag R. Gogate, Degradation of Rhodamine 6G using ultrasonic bath at 2 liter, *Desalination and Water Treatment*, 52 (2014)1378-1387(I.F-0.68).
- **Ashish V Mohod**, Parag R Gogate, Degradation of Polymers: Effect of operating parameters and intensification using additives for carboxymethyl cellulose (CMC) and Polyvinyl alcohol (PVA), *Ultrasonic Sonochemistry*, 18 (3) (2010)727-734 (I.F-3.52)
- Deepika D Mahale, Nilesh N Patil, Diksha S Zodge, Priyanka D Gaikwad, Barnali S Banerjee, Kanchan N Bawankar, **Ashish V Mohod**, Parag R Gogate, Destruction Removal of Patent Blue V Dye Using Air-Bubble induced oxidation based on Small Glass Balls: Intensification studies, *Desalination and water treatment*, **(Communicated)**
- Manas Orpe, Kapil Sathe, Gaurav Tikhe, Barnali S Banerjee, Kanchan N Bawankar, **Ashish V Mohod**, Removal of Rhodamine B and Rhodamine 6G from the mixture using ultrasonic & ultraviolet irradiation, **water science and technology**, **(Communicated)**
- Akshay D Kadam, Nishant B Bhaskar, Rachana Dalbhanjan, Deepika Mahale, Shruti P Hinge, Priyanka H Kamble, Barnali S Banerjee, Kanchan N Bawankar, **Ashish V Mohod**, Parag R Gogate, Destruction Of Commercial Dye Rhodamine 6G By Using Various Additives Under Solar Light Irradiation, *Desalination and water treatment* **(Communicated)**

- Rachana Dalbhanjan, Nishant B Bhaskar, Barnali S Banerjee, Kanchan N Bawankar, **Ashish V Mohod**, Parag R Gogate, Photocatalytic Degradation of Patent Blue V: Effect of Operational Parameter and Kinetic Modeling, *Desalination and water Treatment*, (Communicated)

National: 01

- Barnali S. Banerjee, Archana V. Khode, **Ashish V. Mohod**, Degradation of Rhodimine 6G at pilot Scale capacity using hybrid techniques based on cavitation, Compendium on R&D projects under grant-in-aid scheme, 2(2013)17.

Conferences:

National: 19

- Nishant Bhaskar, Akshay Kadam, Vijayshree More, **Ashish Mohod**, Scale up and optimization study using sonophotocatalytic degradation of polyvinyl pyrrolidone, CHEMCON -2012, held at Jalandhar, Punjab on dated Dec. 27-30, 2012.
- Priyanka Kamble, Barnali Banerjee, Shruti Hinge, **Ashish Mohod**, Sonophotocatalytic degradation of Rhodamine 6 G using ultrasonic bath, CHEMCON -2012, held at Jalandhar, Punjab on dated Dec. 27-30, 2012.
- Deepika Mahale, Nilesh Patil, **Ashish Mohod**, A new approach for treating industrial wastewater: Air marble cavitation, CHEMCON -2013, held at ICT, Mumbai on dated Dec. 27-30, 2013.
- Nikita Dinde, Vidya Loknath, Merlin Vellore, **Ashish Mohod**, Experimental investigation of manufacturing of Herbal Grease, CHEMCON -2013, held at ICT, Mumbai on dated Dec. 27-30, 2013.
- Kapil Sathe, ManasOrpe, Kanchan Bwankar, **Ashish Mohod**, Treatment of mixture of two textile dyes i.e. Rhodamine B and Rhodamine 6G using AOPs, CHEMCON -2013, held at ICT, Mumbai on dated Dec. 27-30, 2013.
- Diksha Zodge, Priyanka Gaikwad, **Ashish Mohod**, Sonochemical Degradation of polyvinyl Pyrrolidone, CHEMCON -2013, held at ICT, Mumbai on dated Dec. 27-30, 2013

- Swati Aphale, Sanket Shinde, **Ashish Mohod**, Degradation of a dye Rhodamine 6G in aqueous solution using different catalysts, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- Diksha Zodge, Priyanka Gaikwad, **Ashish Mohod**, Destruction of polymer (PVP) using acoustic Cavitation, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- Yogesh karanjkar, Raveena Dinde, **Ashish Mohod**, Destruction of complex structured molecules using acoustic cavitation, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- Snehal Bomble, Rachana Dalbhanjan, **Ashish Mohod**, Biomedical Waste Management, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- NishantBhaskar Pandey, Sumit karde, **Ashish Mohod**, Process intensification: Biodiesel synthesis using low cost material such as waste cooking oil, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- Kapil Sathe, ManasOrpe, Kanchan Bwankar, **Ashish Mohod**, Treatment of mixture of two textile dyes i.e. Rhodamine B and Rhodamine 6G using AOPs, FTWM-2014, held at AISSMS COE, pune on dated January 15-17, 2014.
- Bornita Deb, Tanu Unaharia, **Ashish Mohod**, Process Intensification: Biodiesel synthesis using low cost material such as Waste Cooking Oil (WCO), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014
- Pereira Siena, Sawan Bhan, **Ashish Mohod**, Destruction of commercial dye Rhodamine 6G by using various catalyst under solar light irradiation,), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014
- Nileema Bokhale, Pratisha Gadekar, **Ashish Mohod**, Destruction of complex structured molecules using acoustic cavitation,), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014
- Diksha Zodge, Priyanka Gaikwad, Ritu Kale, Kanchan Bawankar, **Ashish Mohod**, Removal of Rhodamine B and Rhodamine 6G from the mixture using Ultrasonic Irradiation,), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014
- Sanket Shinde, Swati Aphale, **Ashish Mohod**, Degradation of patent blue V dye using modified photocatalytic reactor,), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014

- Gaurav Tikhe, Nikita Dinde, Kanchan Bawankar, **Ashish Mohod**, Removal of dyes from the mixture using ultraviolet irradiation,), SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014
- Suyog Mahajan, Akshay Sonawane, **Ashish Mohod**, Degradation of patent blue V: Air marble cavitation, SCHEMCON-2014, held at IOT, Haldia on dated Sept. 19-20, 2014

Course/Seminar/Symposium/Workshop attended

- Participated in National Level Technical Paper Presentation at “POLY-ERA 2005” in College of Engineering and Technology, Akola.
- **Second Prize** in National Level Technical Paper Presentation at “INSIGHT 06” in Anuradha College of Engineering, Chikhli.
- Participated in In-house Induction Training Programming for Teachers in 2008 in Anuradha College of Engineering, Chikhli.
- Participated in the TEQIP Science Workshop organized by ICT, Mumbai on dated Feb 07, 2009.
- Participated in the Two Day workshop of “Recent advances on waste water treatment” organized by ICT, Mumbai on dated Dec 16-17, 2009
- Participated in the Three Day workshop on “Process Intensification of Chemical Processing Applications” held in ICT, Mumbai on dated Jan. 28- 30, 2011.
- Participated in the Five Day workshop cum training course of Chemical Engineering Laboratory organized by ICT, Mumbai on dated Sept 28-Oct 02, 2011.
- Organized and participated in “Institutional Training Programme” by Petroleum Conservation Research Association (PCRA), Ministry of Petroleum and Natural Gas, Government of India held at AISSMS COE, Pune on dated October 4, 2012.
- Participated and presented poster in CHEMCON-2012 held at NIT, Punjab on dated Dec 27-30, 2012
- Participated in One day workshop on “Computational Fluid Dynamics” organized by AISSMS COE, Pune on dated March 22, 2013.
- Organized and Participated in Two day state level seminar on “Advanced waste water treatment technologies” organized by AISSMS COE, Pune on dated March 25-26, 2013
- Participated in “Faculty Development Programme” organized by AISSMS COE, Pune on dated June 10-12, 2013.

- Participated in two day national level seminar on “Role of bio-energy in sustainable product development” organized by MIT Academy of Engineering, Pune on dated August 30-31, 2013.
- Participated and presented poster in CHEMCON-2013 held at ICT, Mumbai on dated Dec 27-30, 2013
- Organized and Participated in Three day national conference on “frontier technologies in waste management” organized by AISSMS COE, Pune on dated Jan 15-17, 2014
- Participated in two day 10th Annual session Students Chemical Engineering Congress SCHEMCON 2014 organized by Haldia Institute of Technology, Haldia, WB, India on dated September 19-20, 2014.
- Participated at a state level seminar on “Intensification of Chemical Processing using Noel Reactors” organized by AISSMS COE, Pune on dated 9-10 and 22, 2015.

Professional Memberships

- Associate member of Institution of Engineers, IEI, (AM-153544-5)
- Associate Member of Institution of Chemical Engineers, IChE. (AM-33839)
- Life Member of Institution of Chemical Engineers IChE (Applied)