

Dr Vitthal L Gole

Associate Professor

Department of Chemical Engineering

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Educational Qualifications

- Ph D (Tech) (Chemical Engg), ICT, Mumbai
- M Tech (Chemical Engg), Dr BATU, Lonere-Raigad
- B E (Chemical Engg), Amaravati University

Postdoctoral Research Associate

- Department of Materials Science and Engineering, The University of Arizona, Tucson, AZ, US from January – 2016 to March – 2017.

Experience

Teaching: 13 Years

Research: 08 Years

- Associate Professor at AISSMS College of Engineering, Pune from February - 2014 to till date
- Assistant Professor at AISSMS College of Engineering, Pune from October - 2010 to January - 2014
- Lecturer at AISSMS College of Engineering, Pune from August-2005 to September – 2010
- Lecturer at Dr. Babasaheb Ambedkar Technological University, Lonere-Raigad from Aug-2004 to May -2005.
- Lecturer at LAD College, Nagpur from August-2003 to March-2004.
- Teaching Assistant at Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad from Aug-2002 to April-2003.

Visiting Faculty

- Department of Technology, University of Pune

Sponsored Projects

- Value added products from Karanja using novel techniques, Funding Agency: Savitribai Phule Pune University, Duration: 2016-18, Amount: Rs. 2,75,000/-
- Process intensification of heterogeneous catalyzed for biodiesel synthesis from sustainable feedstock using continuous hybrid reactor, Funding Agency: *All India Council of Technical Education, New Delhi*, Duration: 2013-16, Amount: Rs. 1,50,000/-
- Biodiesel production from Nagchampa using microwave irradiation, Funding Agency: *The Institution of Engineers (India)*, Duration: 2010-11, Amount: Rs. 50,000/-
- Purification of biodiesel using vacuum evaporator, Funding Agency: *The Institution of Engineers (India)*, Duration: 2010-11, Amount: Rs. 50,000/-
- Biodiesel Production from Nagchampa using Sonochemical reactor, Funding Agency: *The Institution of Engineers (India)*, Duration: 2009-10, Amount: Rs. 40,000/-
- Feasibility of Enzymatic Biodiesel Production from Nagchampa, Funding Agency: *The Institution of Engineers (India)*, Duration: 2008-09, Amount: Rs. 25,000/-
- Feasibility of Biodiesel Production from Nagchampa, Funding Agency: University of Pune, Duration: 2008-10, Amount: Rs. 2,00,000/-
- Continuous vacuum drying of agricultural products, Funding Agency: University of Pune, Duration: 2007-09, Amount: Rs. 1,00,000/-

Publications

International Journal:	12
National Journal:	01
Conference Presentations:	25

INTERNATIONAL JOURNALS (Cumulative Impact Factor = 27.045)

1. **Gole, V. L.**; Alhat A. Treatment of malachite green dye using combined oxidation techniques based on different irradiation, *Korean Journal of Chemical Engineering*, 2017, 34, 1393-1399 (IF: 1.408)
2. **Gole, V. L.**; Priya, A.; Danao, S. P. Decolorization of brilliant green dye using immersed lamp sonophotocatalytic reactor, *Applied Water Science*, 2017, accepted
3. Doltade, S. B.; **Gole, V. L.** Mechanistic insight on the sonolytic degradation of phenol at interface and bulk using additives, *Journal of Advanced Oxidation Technologies*, 2017, revision submitted. (IF: 0.966)

4. Dubey S. M.; **Gole V. L.**; Gogate P. R. Cavitation assisted synthesis of fatty acid methyl esters from sustainable feedstock in presence of heterogeneous catalyst using twostep process, *Ultrasonics Sonochemistry*, 2015, 23, 165-173. (IF: 4.566, Citations: 7)
5. **Gole, V. L.**; Gogate P. R. Degradation of brilliant green dye using combined treatment strategies based on different irradiations, *Separation and Purification Technology*, 2014, 134, 212-220. (IF: 3.299, Citations: 15)
6. **Gole, V. L.**; Gogate P. R. Sonochemical degradation of chlorobenzene in presences of additives, *Water Science and Technology*, 2014, 64, 882-888. (IF: 1.064, Citations: 2)
7. **Gole, V. L.**; Gogate P. R. Intensification of glycerolysis of free fatty acid containing oil using microwave irradiations, *Fuel Processing Technology*, 2014, 118, 110-116. (IF: 3.847, Citations: 15)
8. **Gole, V. L.**; Gogate P. R. Intensification of sonochemical degradation of chlorobenzene using additives, *Desalination and Water Treatment*, 2013, 53, 2623-2635. (IF:1.173)
9. **Gole, V. L.**; Naveen, K. R.; Gogate, P. R. Hydrodynamic cavitation for intensification of synthesis of biodiesel from sustainable feedstock, *Chemical Engineering and Processing: Process Intensification*, 2013, 71, 70-76. (IF: 2.154, Citations: 18)
10. **Gole, V. L.**; Gogate, P. R. Intensification of synthesis of biodiesel from non-edible oil using sequential combination of microwave and ultrasound, *Fuel Processing Technology*, 2013, 106, 62-69. (IF: 3.847, Citations: 45)
11. **Gole, V. L.**; Gogate, P. R. Intensification of synthesis of biodiesel from non-edible oils using sonochemical reactors, *Industrial & Engineering Chemistry Research*, 2012, 51, 11866–11874. (IF:2.567, Citations: 38)
12. **Gole, V. L.**; Gogate, P. R. A review on intensification of synthesis of biodiesel from sustainable feedstock using sonochemical reactors, *Chemical Engineering and Processing: Process Intensification*, 2012, 53, 1-9. (IF: 2.154, Citations: 87)

Citations data taken from google scholar dated May 2, 2017

NATIONAL JOURNAL

1. **Gole V. L.**; Tadkar P. S.; Pawar P.; Patil N. Thin layer modeling of microwave-vacuum drying of green, *IUP Journal of Chemical Engineering*, 2010, 2, 1-12.

CONFERENCE FULL PAPER

1. Gandhi K. B., **Gole V. L.**, Intensification of chemical processing using energy efficient sonochemical reactor, *Sanvargam - 2016, Department of Chemical Engineering*,

- Bharati Vidyapeet Deemed University, College of Engineering, Pune, Mar 26-27, 2016, Page 55-60.*
2. Warke P. M., **Gole V. L.**, Treatment of phenolic pollutants using large scale photocatalytic reactor, Sanvargam - 2016, *Department of Chemical Engineering, Bharati Vidyapeet Deemed University, College of Engineering, Pune, Mar 26-27, 2016, Page 606-614.*
 3. Tadkar P. S., **Gole V. L.**, Comparative study of epoxidation of soyabean oil, *International Conference on Sustainable Chemistry & Engineering, Mumbai, Oct 8-9, 2015.*
 4. Bachchhav M. B, Dhamole P. B., Kulkarni M. V., Ingale A. G., **Gole V. L.** Ultrasound assisted extraction of phycocyanin from *Spirulina platensis*, *Bioprocessing India – 2014, Institute of Chemical Technology, Mumbai, Dec 17-20, 2014, Page 58-59.*
 5. Alande P., Gadre V., **Gole V. L.**, Intensification of wastewater processing using microwave irradiation, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 46-48.*
 6. Diwate P., Biwal J. **Gole V. L.**, Design aspect of photocatalytic reactor, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 49-51.*
 7. Borkar S., Lunkad V., **Gole V. L.**, Anaerobic method for municipal wastewater treatment (UASB), *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 52-56.*
 8. Ukali G., Vedpathak S., **Gole V. L.**, Mechanistic approach for degradation of pollutants using acoustic cavitation, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 62-67.*
 9. Chaudhari J., Walzade A., **Gole V. L.**, Sono-photo-microwave reactor for wastewater processing, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 68-71.*
 10. Singh S., Karwar D., Anwar M., **Gole V. L.**, Intensification of wastewater processing using sonophotocatalysis, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 72-74.*
 11. Alhat A., **Gole V. L.**, Treatment of dye effluent using sonophotochemical reactor, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 85-89.*
 12. Patil K., **Gole V. L.**, Wastewater treatment using microwave irradiation, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune, Jan 15-17, 2015, Page 90-95.*

13. Sinhmar P., **Gole V. L.**, Intensification technique for trickling filters, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune*, Jan 15-17, 2015, Page 99-102.
14. Chudhari Priti, Karwar D., Anwar M., **Gole V. L.**, Degradation of dye by advanced oxidation process, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune*, Jan 15-17, 2015, Page 103-106.
15. Ingale S., Pagare M., **Gole V. L.**, Microwave method for wastewater treatment, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune*, Jan 15-17, 2015, Page 141-146.
16. Moradiya K., Tadkar P. S., **Gole V. L.** Ethanol production from lignocellulosic biomass, *CHEMCON-2013*, Dec 27-30, 2013.
17. Diwate P.; Shelke S.; **Gole V. L.**; Tadkar P. S. Kinetics of esterification of benzyl alcohol, *CHEMCON-2013*, Dec 27-30, 2013.
18. Tippawar S., Helekar R., **Gole V. L.**, Tadkar P. S., Extraction of Natural Dye, *CHEMCON-2013*, Dec 27-30, 2013.
19. **Gole, V. L.**; Gogate P. R. Process intensification of chemical processing using cavitation reactors, *M P Charya Memorial Presentation, SCHEMCON - 2013*, MVGR college, Vizianagaram, Sep 15-16, 2013.
20. **Gole, V. L.**; Gogate P. R. Degradation of chlorobenzene using cavitation reactor, *Industrial wastewater treatment recycle and reuse, National Chemical Laboratory, Pune*, Jun 15-16, 2012, Page 12-13.
21. **Gole, V. L.**; Patil P.N.; Jadhav S. H. Cavitation reactors: An emerging approach for process intensification, *8th BLASTCARBO/UHDE Outstanding Young Chemical Engineers Conference, Mumbai*, Mar 24, 2012.
22. **Gole, V. L.**; Gogate, P. R. Biodiesel synthesis from non-edible oil using microwave reactor, *CHEMCON- 2011*, Dec 27-29, 2011, Page 654-655.
23. **Gole V. L.**; Danao, S. P.; Tiwari, R. K. Microalgae: Promising source of sustainable automotive fuel, *Society for Automotive Engineers*, Dec 16-17, 2010.
24. Tiwari R. K., **Gole V. L.**, Feasibility study of biodiesel production from nagchampa (*Calophyllum Innophyllum* Linn), *Innovation – 2008, University of Pune*, Nov 17-18, 2008, Page 10-13.
25. **Gole V. L.**, Microwave vacuum drying of agricultural products, *Innovation – 2007, University of Pune*, Nov 19-20, 2007, Page 95-97.

CONFERENCE ATTEND

1. Singh S., Karwar D., Anwar M., **Gole V. L.**, Intensification of wastewater processing using sonophotocatalysis, *Frontier Technologies in Waste Management, AISSMS College of Engineering, Pune*, Jan 15-17, 2015.
2. Moradiya K., Tadkar P. S., **Gole V. L.**, Ethanol production from lignocellulosic biomass, *CHEMCON-2013*, Dec 27-30, 2013.
3. **Gole, V. L.**, Gogate P. R., Process intensification of chemical processing using cavitation reactors, *M P Charya Memorial Presentation, SCHEMCON - 2013*, Sep 15-16, 2013.
4. **Gole, V. L.**, Gogate P. R. Degradation of chlorobenzene using cavitation reactor, *Industrial wastewater treatment recycle and reuse, National Chemical Laboratory, Pune*, Jun 15-16, 2012.
5. **Gole, V. L.**, Patil P.N., Jadhav S. H., Cavitation reactors: An emerging approach for process intensification, *8th BLASTCARBO/UHDE Outstanding Young Chemical Engineers Conference, Mumbai*, Mar 24, 2012.
6. **Gole, V. L.**, Gogate, P. R., Biodiesel synthesis from non-edible oil using microwave reactor, *CHEMCON- 2011*, Dec 27-29, 2011.
7. Tiwari R. K., **Gole V. L.**, Feasibility study of biodiesel production from nagchampa (*Calophyllum Innophyllum* Linn), Innovation – 2008, *University of Pune*, Nov 17-18, 2008.
8. **Gole V. L.**, Microwave vacuum drying of agricultural products, Innovation – 2007, *University of Pune*, Nov 19-20, 2007.

REVIEWER FOR INTERNATIONAL JOURNALS

- Energy Conversion and Management
- Chemical Engineering Communication
- Desalination and Water Treatment
- Journal of Cleaner Technology
- BioTech 3

INVITED TALKS/EXPERT

1. Grads Slam – 2017, The University of Arizona, Tucson, US, Feb 22, 2017.
2. Grads Slam – 2016, The University of Arizona, Tucson, US, Feb 24, 2016.
3. National Seminar on 'Intensification of Chemical processing using novel reactors' organized by AISSMS College of Engineering, Pune, Jan 9, 2015.
4. Faculty Development Program, AISSMS Polytechnique, Pune, Dec 24, 2014.
5. PRAKALP-2014' organized by MIT Academy of Engineering, Pune, Sep 5-6, 2014

6. National Seminar on 'Advanced Computational Techniques for Engineering Applications' organized by AISSMS College of Engineering, Pune, Jan 31, 2014.
7. Indo-German Symposium on 'Urban Wastewater Treatment' organized by AISSMS College of Engineering, Pune, Jan 15-17, 2014.
8. Resource Person for 'Faculty Development Program' organized AISSMS College of Engineering, Pune, May 8, 2013.
9. 'PRAKALP-2012' organized by MIT Maharashtra Academy of Engineering, Pune, Sep 14, 2012.

CONFERENCE/WORKSHOPS/SEMINAR ORGANIZED:

1. Outreach activity on 'Summer Engineering Academy' on July 15-16 at The University of Arizona, Tucson, AZ, US.
2. National Seminar on 'Sustainable Technologies for Specialty, Fine and Intermediates Chemicals', Funding, Agency: *Savitribai Phule Pune University*, Amount: **Rs. 2,00,000/-**, Mar 18-19, 2016.
3. 2nd Indo-German Colloquium on 'Water Management in India', Funding Agency: AISSMS, Pune, Jan 28-29, 2015.
4. National Seminar on 'Intensification of chemical processing using novel reactors', Funding Agency: *University of Pune*, Amount: **Rs. 2,00,000/-**, Jan 9-10, 2015.
5. National conference on 'Frontier technologies in waste management', Funding Agency: *All India Council for Technical Education, New Delhi*, Amount: **Rs. 2,00,000/-**, Jan 15-17, 2014
6. National Seminar on 'Advanced computational techniques for engineering applications', Funding Agency: *University of Pune*, Amount: **Rs. 50,000/-**, Jan 31-Feb 1, 2014.
7. State Seminar on 'Advanced wastewater treatment technologies', Funding Agency: *University of Pune*, Amount: **Rs. 25,000/-**, Mar 25-26, 2013
8. National Seminar on 'Advances in heat transfer', Funding Agency: *University of Pune*, Amount: **Rs. 60,000/-**, Feb 28-29, 2012.

CONFERENCE/WORKSHOPS/SEMINAR ATTENDED

1. January 28-29, 2015, 2nd Indo-German Colloquium on Water Management in India, AISSMSCOE, Pune
2. December 16-17, 2014, Scientific research paper writing, The National Academy of Science India and University of Pune
3. January 31 - Feb 1, 2014, Advanced Computational Techniques for Engineering Applications, AISSMSCOE, Pune

4. August 30-31, 2013, Role of Bioenergy in Sustainable Growth: RBESG-2013, MIT Academy of Engineering, Pune.
5. May 6-8, 2013, Faculty Development Programme, AISSMSCOE, Pune
6. March 25-26, 2013, Advanced Wastewater Treatment Technologies, AISSMSCOE, Pune.
7. February 26, 2013, One day Workshop on Syllabus Revision of SE and ME, University of Pune.
8. February 28-29, 2012, Advances in Heat Transfer, AISSMSCOE, Pune.
9. March 22, 2013, Computational Fluid Dynamics, AISSMSCOE, Pune.
10. January 28-31, 2011, Process Intensification of Chemical Processing, Institute of Chemical Technology, Mumbai.
11. December 16-18, 2009, Recent Advances in Wastewater Treatment, Institute of Chemical Technology, Mumbai.
12. May 29-31, 2009, Chemical Engineering Laboratory, Institute of Chemical Technology, Mumbai.
13. February 20-22, 2009, Advanced Concept in Chemical Engineering, Institute of Chemical Technology, Mumbai.
14. August 25-30, 2008, Mission 10 X, Wipro India.
15. August 25-26, 2008, High Impact Skill, Dale Carnegie, Wipro India.
16. August 23, 2008, Advances in Mathematical Modeling and Simulation, AISSMSCOE, Pune.
17. June 9-14, 2008, Newer Optimization Techniques for Chemical Engineering Applications, Indian Institute of Technology, Kanpur.
18. May 23-29 2006, Fuels for Automotive Engines, Indian Institute of Technology, Kanpur.
19. June 21-22, 2005, Flow-sheeting based on Aspen Plus Software, Dr Babasaheb Ambedkar Technological University, Lonere- Raigad.