

Resume

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Academic Qualifications

- **2011-2016:** Ph.D. in Environmental Science and Engineering, Centre for Environmental Science and Engineering (CESE), **Indian Institute of Technology (IIT) Bombay**
- **2008-2010:** Masters of Technology (M. Tech.) in Environmental Science and Engineering, CESE, **IIT Bombay**
- **2004-2008:** B. Tech. in Agriculture Engineering, College of Technology and Engineering, Udaipur, **Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur**

Professional Work Experience

- **Assistant Professor in School of Energy and Environment (SEE), Thapar Institute of Engineering & Technology (TIET), Patiala, Punjab** (Jan. 2017 – Oct. 2019)
 - Taught courses at UG (Class strength of 250 per class) and PG (class strength 30 per class level)
- **Project Associate at CESE, IIT Bombay, Powai, Mumbai** (July 2016 – Dec 2017)
 - Worked on Municipal Solid Waste (MSW) Management project
- **Ramky Enviro Engineers Ltd.** Hyderabad, India (Dec. 2010 – Jun 2011)
 - Worked as a Trainee Engineer for hazardous waste landfill operations, environmental health and safety and environmental laboratory
- **Siemens Information Systems Ltd.** Bangalore, India (Aug. 2010 – Nov. 2010)
 - Joined as an Intern and worked on research project entitled ‘arsenic removal from ground water’

SCI Publications

1. Yadav, B. R. and Garg, A. (2018). Hetero-catalytic hydrothermal oxidation of simulated pulping effluent: Effect of operating parameters and catalyst stability. *Chemosphere*, 191:128-135.
2. Yadav, B. R. and Garg, A. (2017). Performance assessment of activated carbon supported catalyst during catalytic wet oxidation of simulated pulping effluents generated from wood and bagasse based pulp and paper mills. *RSC Advances*, 7, 9754-9763.
3. Yadav, B. R. and Garg, A. (2016). Catalytic oxidation of pulping effluent by activated carbon supported heterogeneous catalysts. *Environmental Technology* 17 (8), 1018-1025.

4. Yadav, B. R. and Garg, A. (2016). Catalytic hydrothermal treatment of pulping effluent using a mixture of Cu and Mn metals supported on activated carbon as catalyst. *Environmental Science and Pollution Research* 23:20081–20086.
5. Yadav, B. R. and Garg, A. (2014). Catalytic wet oxidation of ferulic acid (a lignin model compound) in the presence of non-noble metal based catalysts at mild conditions. *Chemical Engineering Journal* 252, 185–193.
6. Yadav, B. R. and Garg, A. (2012). Efficacy of fresh and used supported copper-based catalysts for ferulic acid degradation by wet air oxidation process. *Industrial & Engineering Chemistry Research* 51, 15778 – 15785.

Non-SCI Publications

1. Yadav, B. R. and Garg, A. (2013). Ferulic acid degradation by wet oxidation process. *International Journal of Chem Tech Research* 5 (2), 654-658.
2. Yadav, B. R. and Garg, A. (2011). Treatment of pulp and paper mill effluent using physico-chemical processes. *Indian Pulp and Paper Technical Association (IPPTA)*, 23 (2): 155 – 160.

National and International Conferences

1. Yadav, B. R. and Garg, A. Performance of activated carbon supported catalyst during wet oxidation of pulping effluent. *2014 AIChE Annual Meeting*, Atlanta, GA, USA, (16th – 21st November, 2014). (Oral presentation, full paper published in proceeding).
2. Garg, A. and Yadav, B. R. Catalytic Wet oxidation: a potential pre-treatment method for the degradation of recalcitrant organic pollutants present in pulp mill wastewater. *Third International Conference on Advanced Oxidation Processes (AOP 2014)*, Munnar, Kerala, (25th – 28th September, 2014). (Oral presentation, abstract published in proceeding).
3. Yadav, B. R. and Garg, A. Removal of lignin model compound (ferulic acid) by catalytic wet oxidation process. *National Conference on Recent Advances in Chemical and Environmental Engineering (RACEE – 2012)*, NIT Rourkela, (20th -21st January, 2012). (Oral presentation, full paper published in proceeding).
4. Combest, D. P., Yadav, B. R., Garg, A. and Ramachandran, P. A. Oxidative treatment of industrial wastewater: Development of novel catalysts and technology evaluation. *10th AIChE Annual Meeting*, Salt Lake City, UT, USA, (7th – 12th November, 2010). (Poster presentation).
5. Mishra, A., Yadav, B. R., Garg, A. Treatment of leachate using wet oxidation process - an experimental study. *International Waste Management and Landfill Symposium*, CISA, Environmental Sanitary Engineering Centre, Italy, (5th – 9th October, 2009). (Oral presentation, full paper published in proceeding).
6. Garg, A. and Yadav, B. R. Applications of wet air oxidation process in wastewater treatment. Poster presentation in *International Conference and Exhibition in Advance in Energy Research*, IIT Bombay, (9th – 11th December, 2009). (Poster presentation).