

Profile

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Education Details

- Ph.D. (Chemical Engineering) IIT (BHU), Varanasi
- M.Tech. (Chemical Engineering) IIT (BHU), Varanasi
- B.Tech. (Chemical Engineering) UIET, CSJMU, Kanpur

Ph.D. Title

Studies on production of Benzene/Toluene/Ethylbenzene & Xylene (BTEX) using pyrolysis of waste plastics

Area of Interest

Energy, Waste management, Pyrolysis, Plastic, Waste to Energy, Bio fuel, Waste water Treatment, Fuel processing, Petroleum and Leather Processing.

Professional Background

From	Period	Position	Organisation
29-04-2021	Ongoing	Assistant Professor (Contractual/Guest)	HBTU, Kanpur

Journal Publications

Google Scholar: <https://scholar.google.co.in/citations?user=iUVTiDgAAAAJ&hl=en>

1. Gaurh P., and Pramanik H., "A novel approach of solid waste management via aromatization using multiphase catalytic pyrolysis of waste polyethylene," *Waste Management*, 71 (2018) 86–96.
2. Gaurh P., and Pramanik H., "Production of benzene/toluene/ethylbenzene/xylene (BTEX) via multiphase catalytic pyrolysis of hazardous waste polyethylene using low cost fly ash synthesized natural catalyst," *Waste Management*, 77 (2018) 114–130.
3. Gaurh P., and Pramanik H., "Production and characterization of pyrolysis oil using waste polyethylene in a semi batch reactor," *Indian Journal of Chemical Technology*, 25(4) (2018) 336-344.

4. Gaurh P., and Pramanik H., "Thermal and catalytic pyrolysis of plastic waste polypropylene for recovery of valuable petroleum range Hydrocarbon," *International Journal of Research in science & engineering*, 2(3) (2018) 1-6.
5. Gaurh P., and Pramanik H., "In-situ production of valuable aromatics via pyrolysis of hazardous waste polypropylene using commercial catalyst ZSM-5," *Indian Journal of Chemical Technology*, 27 (2) (March 2020):144-152.
6. Gaurh P., and Pramanik H., "Performance and reusability assessment of ZSM-5 for the production of lighter aromatics via pyrolysis of waste polystyrene," *Indian Journal of Chemical Technology*, Accepted for publication (Article Id: IJCT-3874) dated 23 September 2020.

International/National Conferences

1. Gaurh P., and Pramanik H., "Pyrolysis of Municipal plastic wastes to Valuable liquid hydrocarbons: An Option to minimize plastic wastes load to Environment", 65th Annual session of IChE, Chemcon 2012, NIT-Jalandhar, Dec 27-30, 2012.
2. Gaurh P., and Pramanik H., "Studies on Pyrolysis of Plastic Wastes Polyethylene to Valuable Hydrocarbons to Minimize Plastic Wastes Load to Environment", 66th Annual session of IChE, Chemcon 2013, Mumbai, Dec 27-30, 2013.
3. Gaurh P., and Pramanik H., "Design Modification in Reactor for Pyrolysis of Polyethylene for Liquid Hydrocarbon Production" 68th Annual session of IChE, Chemcon 2015, Guwahati, Dec 27-30, 2015.
4. Gaurh P., and Pramanik H., "Production, Characterization and Fuel Properties of Renewable Petrochemicals From Pyrolysis Of Waste Plastic Polystyrene" 69th Annual session of IChE, Chemcon 2016, Chennai, Dec 27-30, 2016. (**AWARDED BEST PAPER**)
5. Gaurh P., and Pramanik H., "Thermal and catalytic pyrolysis of plastic waste polypropylene for recovery of valuable petroleum range hydrocarbon, 70th Annual session of IChE, Chemcon 2017, Haldia, West Bengal, Dec 27-30, 2017.

Achievements

1. IICHE LIFE Associate Member (LAM-6175).
2. Got best paper award in CHEMCON-2016 held at Chennai.

Experience:

1. Worked for "Namami Gange" Project as IIT(BHU) Core Team member in Kanpur (2017, 2018, 2019 and 2020).
2. I have conducted "Energy Resources Laboratory" as teaching assistant during my Ph.D. for 3-4 years. I have widely used fuel testing instruments such as GC-FID, Bomb calorimeter, ASTM distillation, Flash & Fire point, Carbon residue, FT-IR and having good knowledge and experience in handling lab furnaces/oven.