1. Shubhi Gupta, Goutam Kishore Gupta, and Monoj Kumar Mondal. "Slow pyrolysis of chemically treated walnut shell for valuable products: Effect of process parameters and in-depth product analysis." Energy 181 (2019): 665-676. https://doi.org/10.1016/j.energy.2019.05.214
2. Shubhi Gupta, Prasenjit Mondal, Venu Babu Borugadda, and Ajay K. Dalai. "Advances in upgradation of pyrolysis bio-oil and biochar towards improvement in bio-refinery economics: A comprehensive review." Environmental Technology & Innovation 21 (2021): 101276. https://doi.org/10.1016/j.eti.2020.101276
3. Shubhi Gupta, and Prasenjit Mondal. "Catalytic pyrolysis of pine needles with nickel doped gamma-alumina: Reaction kinetics, mechanism, thermodynamics and products analysis." Journal of Cleaner Production 286 (2021): 124930. https://doi.org/10.1016/j.jclepro.2020.124930
4. Shubhi Gupta, Pushpraj Patel, and Prasenjit Mondal. "Biofuels production from pine needles via pyrolysis: Process parameters modeling and optimization through combined RSM and ANN based approach." Fuel 310 (2022): 122230. https://doi.org/10.1016/j.fuel.2021.122230
5. Shubhi Gupta, Rahul Lanjewar, and Prasenjit Mondal. "Enhancement of hydrocarbons and phenols in catalytic pyrolysis bio-oil by employing aluminum hydroxide nanoparticle based spent adsorbent derived catalysts." Chemosphere 287 (2022): 132220. https://doi.org/10.1016/j.chemosphere.2021.132220
6. Shubhi Gupta, Pushpraj Patel, and Prasenjit Mondal. "Catalytic Pyrolysis Using a Nickel-Functionalized Chemically Activated Biochar Catalyst: Insight into Process Kinetics, Products, and Mechanism." ACS Sustainable Chemistry & Engineering (2022): 5770–5780 . https://doi.org/10.1021/acssuschemeng.1c08193
7. Shubhi Gupta, Pushpraj Patel, and Prasenjit Mondal. "Life cycle analysis (LCA) and economic evaluation of catalytic fast pyrolysis: implication of coproduct's end-usage, catalyst type, and process parameters." Sustainable Energy & Fuels (2022): 2970-2988. https://doi.org/10.1039/D2SE00079B
8. Shubhi Gupta, Pushpraj Patel, and Prasenjit Mondal. "Life cycle analysis (LCA) and operating cost assessment of carbon negative catalytic pyrolysis technique using spent aluminum hydroxide nanoparticle (AHNP) adsorbent derived catalyst: Insights into co-products utilization and sustainability." Energy & Fuels (2023): 2960–2971. https://doi.org/10.1021/acs.energyfuels.2c03944
9. Shubhi Gupta, Pushpraj Patel, and Prasenjit Mondal. " Environmental footprints of the catalytic pyrolysis of pine needles through integration of nickel decorated chemically modified biochar catalyst." ACS Sustainable Chemistry & Engineering. https://doi.org/10.1021/acssuschemeng.2c07563
10. Pushpraj Patel, Shubhi Gupta, and Prasenjit Mondal. "Modeling of continuous adsorption of greywater pollutants onto sawdust activated carbon bed integrated with sand column." Journal of Environmental Chemical Engineering 10.2 (2022): 107155. https://doi.org/10.1016/j.jece.2022.107155
11. Pushpraj Patel, Shubhi Gupta, and Prasenjit Mondal. "Electrocoagulation process for greywater treatment: Statistical modeling, optimization, cost analysis and sludge

management." Separation and Purification Technology (2022): 121327. https://doi.org/10.1016/j.seppur.2022.121327

12. Pushpraj Patel, Shubhi Gupta, and Prasenjit Mondal. "Modeling and optimization of process parameters of MB dye adsorption using waste-derived chemically activated biosorbents." Biomass Conversion and Biorefinery (2022): 1-20. https://doi.org/10.1007/s13399-022-02693-w
13. Pushpraj Patel, Shubhi Gupta, and Prasenjit Mondal. "Life cycle assessment (LCA) of greywater treatment using ZnCl2 impregnated activated carbon and electrocoagulation process: A comparative study." "ACS Industrial & Engineering Chemistry Research" (2023): 2960–2971. https://doi.org/10.1021/acs.iecr.2c03353
14. Shubhi Gupta, Anil Kumar Varma and Prasenjit Mondal, Catalytic upgrading of biooil and bio-crude oil to synthetic transportation fuels, Woodhead Publishing
15. Navneeta Lal, Shubhi Gupta, Hemant Goyal, Prasenjit Mondal. "Energy generation from waste packaging plastic via thermo-catalytic pyrolysis using catalysts produced from spent aluminum hydroxide nanoparticles" Clean Technologies and Environmental Policy (2023): 1-12. https://doi.org/10.1007/s10098-023-02644-7
16. Shubhi Gupta, Pushpraj Patel, Prasenjit Mondal. " Catalytic pyrolysis of pine needles using metal functionalized spent adsorbent derived catalysts: Kinetics, thermodynamics and prediction modelling using artificial neural network (ANN) approach. " Industrial Crops and Products (2024): 118481. https://doi.org/10.1016/j.indcrop.2024.118481
17. Pushpraj Patel, Ioanna Dimitriou, Prasenjit Mondal, Omvir Singh, Shubhi Gupta*. "Process optimisation and enviro-economic assessment of carbon-negative hydrogen production from biomass co-gasification" Energy Conversion and Management (2025): 119211