

Publications

1. **Goutam Kishore Gupta**, Pavan Kumar Gupta, Monoj Kumar Mondal. Experimental process parameters optimization and in-depth product characterizations for teak sawdust pyrolysis. *Waste Management*, **87**, 2019, 499-511.
2. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Bio-energy generation from sagwan sawdust via pyrolysis: Product distributions, characterizations and optimization using response surface methodology. *Energy*, **170**, 2019, 423-437.
3. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Iso-conversional kinetic and thermodynamic studies of Indian sagwan sawdust pyrolysis for its bioenergy potential. *Environmental Progress & Sustainable Energy (AIChE)*, **2018**, **38** (4); 1-11.
4. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Mechanism of Cr(VI) uptake onto sagwan sawdust derived biochar and statistical optimization via response surface methodology. *Biomass Conversion and Biorefinery*, 2020.
5. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Kinetics and thermodynamic analysis of maize cob pyrolysis for its bioenergy potential using thermogravimetric analyzer. *Journal of Thermal Analysis and Calorimetry*, **2019**, **137**; 1431-1441.
6. **Goutam Kishore Gupta**, Mahendra Ram, Renu Bala, Meghna Kapur and Monoj Kumar Mondal. Pyrolysis of Chemically Treated Corncob for Biochar Production and Its Application in Cr(VI) Removal. *Environmental Progress & Sustainable Energy (AIChE)*, **2018**, **37**; 1606-1617.
7. Shubhi Gupta, **Goutam Kishore Gupta**, Monoj Kumar Mondal. Slow pyrolysis of chemically treated walnut shell for valuable products: Effect of process parameters and in-depth product analysis. *Energy*, **2019**, **181**; 665-676.
8. Supriya Gupta, **Goutam Kishore Gupta**, Monoj Kumar Mondal. Thermal degradation characteristics, kinetics, thermodynamic, and reaction mechanism analysis of pistachio shell pyrolysis for its bioenergy potential. *Biomass Conversion and Biorefinery*, 2020.
9. Ayush Dave, **Goutam Kishore Gupta**, Monoj Kumar Mondal. Study on thermal degradation characteristics, kinetics, thermodynamic, and reaction mechanism analysis of *Arachis hypogaea* shell pyrolysis for its bioenergy potential, *Biomass Conversion and Biorefinery*, 2021.
10. Pavan Kumar Gupta, Abhishek Mahato, Pikkoo Oraon, **Goutam Kishore Gupta**, Sudip Maity. Coal fly ash-derived mesoporous SBA-15 as support material for production of liquid hydrocarbon through Fischer–Tropsch route. *Asia Pacific Journal of Chemical Engineering*, 2020.

11. Pavan Kumar Gupta, Abhishek Mahato, **Goutam Kishore Gupta**, Gajana Sahu, Sudip Maity. Fischer - Tropsch synthesis over Pd promoted cobalt based mesoporous supported catalyst. **Oil Gas Science & Technology**, 2021.
12. Renu Bala, **Goutam Kishore Gupta**, Betty Varghese Dasgupta, Monoj Kumar Mondal. Pretreatment optimisation and kinetics of batch anaerobic digestion of liquidised OFMSW treated with NaOH: Models verification with experimental data. **Journal of Environmental Management**, 2019, 237; 313-321.
13. Ajay Singh Rathore, **Goutam Kishore Gupta**, Meghna Kapur, Monoj Kumar Mondal. Study on Mass Transfer Characteristics for Cr (VI) Removal by Adsorption onto Residual Black Toner Ink. **Environmental Progress & Sustainable Energy (AIChE)**, 2017, 36; 1022-1029.
14. Manish Chandra Kannaujiya, **Goutam Kishore Gupta**, Tamal Mandal, Monoj Kumar Mondal. Adsorption of Acid Yellow 2GL dye from water using removal using brinjal waste. **Biomass Conversion and Biorefinery**, 2021.
15. Mukesh Singh, Sujoy Rano, Sandhik Roy, Pallav Mukherjee, Sushovan Dalui, **Goutam Kishore Gupta**, Sunil Kumar, Monoj KumarMondal. Characterization of organophosphate pesticide sorption of potato peel biochar as low cost adsorbent for chlorpyrifos removal. **Chemosphere**, 2022.
16. Nidhi Agnihotri, **Goutam Kishore Gupta**, Monoj KumarMondal. Thermo-kinetic analysis, thermodynamic parameters and comprehensive pyrolysis index of Melia azedarach sawdust as a genesis of bioenergy, **Biomass Conversion and Biorefinery**, 2022.

Book chapters

1. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Bio-energy generation from agricultural wastes and enrichment of end products, **Refining Biomass Residues for Sustainable Energy and Bioproducts**, Elsevier, 2019.
2. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Pyrolysis: an alternative approach for utilization of biomass into bio-energy generation, **Biofuels and Bioenergy - Opportunities and Challenges**, Elsevier, 2021.
3. **Goutam Kishore Gupta**, Monoj Kumar Mondal. Fundamentals and mechanistic pathways of dye degradation using photocatalysts, **Photocatalytic Degradation of Dyes**, Elsevier, 2021.