

Publications

- (1) **Satyansh Singh**, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “Torrefaction of woody biomass (*Acacia nilotica*): Investigation of fuel and flow properties to study its suitability as a good quality solid fuel”. **Renewable Energy** **153** (2020) 711-724. <https://doi.org/10.1016/j.renene.2020.02.037>
- (2) **Satyansh Singh**, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “Intrinsic kinetics, thermodynamic parameters and reaction mechanism of non-isothermal degradation of torrefied *Acacia nilotica* using isoconversional methods”. **Fuel** **259** (2020) 116263. <https://doi.org/10.1016/j.fuel.2019.116263>
- (3) **Satyansh Singh**, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “Optimization of process parameters for torrefaction of *Acacia Nilotica* and characteristics of torrefied biomass as upgraded fuel”. **Energy** **186** (2019) 115865. <https://doi.org/10.1016/j.energy.2019.115865>
- (4) **Satyansh Singh**, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “Pyrolysis of torrefied biomass: Optimization of process parameters using response surface methodology, characterization, and comparison of properties of pyrolysis oil from raw biomass”. **Journal of Cleaner Production** **272** (2020) 122517. <https://doi.org/10.1016/j.jclepro.2020.122517>
- (5) **Satyansh Singh**, Anuj Kumar Prajapati, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “Comparative study for removal of aqueous methylene blue using biochar from pyrolysis of raw and torrefied biomass: kinetics, isotherm, thermodynamics and mass transfer studies”. **Journal of Cleaner Production** (under review).

Conferences

- (1) Satyansh Singh, Jyoti Prasad Chakraborty, Monoj Kumar Mondal. “In-depth characteristics of products from torrefaction of woody biomass”. (**BEHSD 2018**) Lucknow.
- (2) Delivered oral presentation in **Chemcon-2017** organized by IICHE at Haldia Institute of Technology, West Bengal. (**Best paper award for oral presentation**).

- (3) Participated in a workshop INSPIRE-2017 organized by IIT BHU, Varanasi.
- (4) Participated as delegate in the 73rd Annual Convention and International conference of the **OTAI, 2018**.
- (5) Presented poster titled “Efficient gasification through torrefied biomass” on **Institute day** April, 2016 organized by **IIT (BHU) Varanasi**.