

## Dr. Neelanjan Bhattacharjee Profile



**DR. NEELANJAN BHATTACHARJEE**, B.Tech., M.Tech., and Ph.D. (Chemical Engineering)

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Designation: **Assistant Professor**

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Scopus ID: 57193684689.

Date of Joining: 24/05/2022.

### ACADEMIC BACKGROUND

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Degree	University	Year
Ph.D. (Chemical Engineering)	University of Calcutta	2021
M.Tech. (Chemical Engineering)	University of Calcutta	2010
B.Tech. (Chemical Engineering)	West Bengal University of Technology	2008

### COURSES TAUGHT

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- Internet of things.
- Nano-Biotechnology.
- Engineering Drawings.
- Mass & Heat Transfer.
- Fluid Mechanics.
- Reaction Engineering.
- Petroleum & Petrochemical Refining Engineering.

### RESEARCH INTERESTS

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- Biomass Processing.
- Thermochemical conversion (pyrolysis/gasification/combustion/carbonisation).
- Food processing.
- Water treatment.

### EXPERTISE IN ANALYTICAL MACHINERY HANDLING

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- FT-IR [Thermo Fisher Nicolet ir 5 (ATR/KBr mode)].

- Malvern Particle Size Analyser 2000.
- Quantacrome Nova 1000E BET surface Area, pore size and volume analyser.
- Hitachi 7200 F Thermo gravimetric Analyser.
- GC/MS (Agilent 6890).

### **MOST RECENT PUBLICATIONS**

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1. Pyrolysis of orange bagasse: Comparative study and parametric influence on the product yield and their characterization. N Bhattacharjee, AB Biswas. Journal of Environmental Chemical Engineering 7 (1), 102903-30, 2019. <https://doi.org/10.1016/j.jece.2019.102903>.
2. Pyrolysis of Alternanthera philoxeroides (alligator weed): Effect of pyrolysis parameter on product yield and characterization of liquid product and bio char. N Bhattacharjee, AB Biswas. Journal of the Energy Institute 91 (4), 605-618, 28, 2018. <https://doi.org/10.1016/j.joei.2017.02.011>.
3. Physicochemical analysis and kinetic study of orange bagasse at higher heating rates. N Bhattacharjee, AB Biswas. Fuel 271, 117642-8, 2020. Doi: <https://doi.org/10.1016/j.fuel.2020.117642>.
4. Pyrolysis of Ageratum conyzoides (goat weed). N Bhattacharjee, AB Biswas. Journal of Thermal Analysis and Calorimetry 139 (2), 1515-1536, 4, 2020. DOI: <https://doi.org/10.1007/s10973-019-08437-9>.
5. Value-added fuels from the catalytic pyrolysis of Alternanthera philoxeroides. N Bhattacharjee, AB Biswas. Fuel 295, 120629-3, 2021. <https://doi.org/10.1016/j.fuel.2021.120629>
6. Isolation and characterization of heavy metals and non-metallic pollutant-tolerant microorganism from wastewater of Tollygunge Canal (Kolkata) West Bengal, India. K Bhattacharyya, D Sen, BB Dey, A De, N Bhattacharjee, AB Biswas, ...Biologia, 1-11, 2022. <https://doi.org/10.1007/a11756-022-01086-8>
7. Bio-oil Production from Fast Pyrolysis of Aquatic Prostate Herb (Achyranthes paludosa). N Bhattacharjee. International Journal of Latest Technology in Engineering, Management.

### **PROJECTS HANDLED**

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NIL

### **PATENTS PUBLISHED**

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NIL

### **MEMBERSHIPS IN PROFESSIONAL BODIES**

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NIL