

Lopamudra Das

PhD Research scholar (SRF)

Seeking a challenging carrier by giving all my skills to my profession and waiting for an initiative role and to employ my hard work and dedications in the field of Chemical engineering and Environmental Science& Management.



Contact

Address

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Bareilly, Uttar Pradesh,
243403**

Category: GENERAL

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Skills

Analytical Instrument

Proficiency: ICP-MS, FTIR,
UV-Spectrophotometer,
TGA, BET analyser

Computer Proficiency:Microsoft
office, C programing, Matlab
language, AUTOCAD, SOLID
work



Languages

English, Hindi,Bengali



Work History

2018-01 -
2021-12

PhD Research Fellow (SRF)

Jadavpur University, Kolkata, West Bengal Working on the
Industrial project (sponsored by Dalmia Holding Group)

PhD thesis title: Removal of pollutants present in waste
water using carbonaceous material and nanocomposites

Journal publication

— **Das, L.,** Das, P., Bhowal, A., Bhattacharjee, C., 2020a.
Synthesis of hybrid hydrogel nano-polymer composite using
Graphene oxide, Chitosan and PVA and its application in
waste water treatment. *Environ. Technol. Innov.* 18,
100664.<https://doi.org/10.1016/j.eti.2020.100664>

— **Das, L.,** Das, P., Bhowal, A., Bhattacharjee, C., 2020c.
Treatment of malachite green dye containing solution using
bio-degradable Sodium alginate/NaOH treated activated
sugarcane bagasse charcoal beads: Batch, optimization using
response surface methodology and continuous fixed bed column
study. *J. Environ. Manage.* 276.
<https://doi.org/10.1016/j.jenvman.2020.111272>

— **Das, L.,** Das, P., Bhowal, A., Bhattacharjee, C., 2021a.
Enhanced biosorption of fluoride by extracted
nanocellulose/polyvinyl alcohol composite in batch and fixed-
bed system: ANN analysis and numerical modeling. *Environ.*
Sci. Pollut. Res.<https://doi.org/10.1007/s11356-021-14026-x>

— **Das, L.,** Sengupta, S., Das, P., Bhowal, A.,
Bhattacharjee, C., 2021b. Experimental and
Numerical modeling on dye adsorption using pyrolyzed
mesoporous biochar in Batch and fixed-bed column reactor:
Isotherm, Thermodynamics, Mass transfer, Kinetic analysis.
Surfaces and Interfaces 23, 100985.

<https://doi.org/10.1016/j.surfin.2021.100985>

— **Das, L.**, Saha, N., Ganguli, A., Das, P., Bhowal, A., Bhattacharjee, C., 2021. Calcium alginate–bentonite/activated biochar composite beads for removal of dye and Biodegradation of dye-loaded composite after use: Synthesis, removal, mathematical modeling and biodegradation kinetics. *Environ. Technol. Innov.* <https://doi.org/10.1016/j.eti.2021.101955>

— Saha, N., **Das, L.**, Ganguli, A., Das, P., Bhowal, A., Bhattacharjee, C., 2021. Comparative experimental and mathematical analysis on removal of dye using raw rice husk, rice husk charcoal and activated rice husk charcoal: batch, fixed-bed column, and mathematical modeling. *Biomass Conversion and Biorefinery* DOI:10.1007/s13399-021-01996-8

Conference presentation certificates and publications

— **Das, L.**, Saha, N., Saha, Das, P., Bhowal, A., Bhattacharya, C., 2020b. Application of Synthesized Nanocellulose Material for Removal of Malachite Green from Wastewater, in: *Recent Trends in Waste Water Treatment and Water Resource Management*. https://doi.org/10.1007/978-981-15-0706-9_2

- 8th International Conference (2018) on Sustainable Waste Management by Acharya Nagarjuna University, Andhra Pradesh International Conference on Emerging
- Technologies for Sustainable Development (ICETSD 19), Kolkata. WB, India
- International conference on Nanotechnology (ICNT-2019), by Institute of Fire and Safety Engineering, Haldia, WB, India.,
- 12th All India Peoples' technology congress organised by forum of scientists, engineers & technologists (FOSET-2019)
- **Presentation certificate for presenting at the Web-based Exposition on Engineering and Technology at Jadavpur University on February 26-27, 2021.**



Education (University Degree)

2011-07 -
2015-06

B.Tech.: Chemical Engineering

Haldia Institute of Technology - Haldia, WestBengal

- CGPA: 8.01
- Completed academic project (1year) on “**Development of Efficient Electro Catalyst for Polymer Electro catalyst**”

Membrane Fuel Cells”.

- Completed Industrial training (1 month) in Haldia Petrochemical Limited,(Haldia) at Naptha cracker associated unit

2015-09 -
2017-07

M.Tech.: Chemical Engineering

Calcutta University - Kolkata, West Bengal

- CGPA: 8.2
- Completed academic project (1 year 6 month) on "**Bio removal of textile dye from textile waste water using microorganisms”.**
- Participated in 5days **short term course** on **CAD-CAM application** in **CNC machining** offered by **Indian Institute of Technology, kharagpur, 2016.**
- Participation and presentation certificate in **poster session** in **1st regional science & technology congress-2016**

Education (School qualification)

10th (Madhyamik)

- Year: **2009**
- Marks: 81.25%
- Board: W.B.B.S.E.
- School: Muradpur Vivekananda Vidyapith

12th (Higher secondary)

- Year: **2011**
- Marks: 80%
- Board: W.B.C.H.S.E.
- School: Hanschara M.D. High School