Profile Page

Name	:	Dr Chandi Charan Patra
Designation	:	Assistant Professor Grade-ii
Department	:	Bio-Technology
Qualification	:	Ph.D Biosciences and Bioengineering (Indian Institute of Technology Guwahati, Assam, India) M.Tech Biotechnology (Birla Institute of Technology, Jharkhand, India) B.Tech Biotechnology (Lovely Professional University, Punjab, India)
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Research Interests :

1. Valorizing waste biomass.
2. Developing surface fabricated/functionalized adsorbents.
3. Remediation of toxic micropollutants and emerging contaminants.
4. Ecotoxicological assessment.
5. Integration of MACHINE LEARNING towards adsorption-based remediation.

Other Profile Links :

Google Scholar Link :

Chandi Patra Click Here

Journal Publications :

Year	Journal	Publication
2022	Journal of Cleaner Production	Patra, C., & Narayanasamy, S. Polypyrrole complexation on biomass-derived powdered carbon for adsorptive elimination of emerging pharmaceutical contaminant Sulfamethoxazole: A comprehensive insight.
2022	Chemosphere	Kumar, A., Patra, C., Rajendran, H.K., Narayanasamy, S. Activated carbon-chitosan based adsorbent for the efficient removal of the emerging contaminant diclofenac: Synthesis, characterization and phytotoxicity studies.

2022	Environmental Research	Kumar, A., Patra, C., Kumar, S., Narayanasamy, S. Effect of magnetization on the adsorptive removal of an emerging contaminant ciprofloxacin by magnetic acid activated carbon.
2021	Chemosphere	Patra, C., Suganya, E., Sivaprakasam, S., Krishnamoorthy, G., Narayanasamy, S. A detailed insight on fabricated porous chitosan in eliminating synthetic anionic dyes from single and multi-adsorptive systems with related studies.
2020	Environmental Pollution	Patra, C., Gupta, R., Bedadeep, D., Narayanasamy, S. Surface treated acid-activated carbon for adsorption of anionic azo dyes from single and binary adsorptive systems: A detail insight.
2020	Environmental Science and Pollution Research	Patra, C., Shahnaz, T., Subbiah, S., Narayanasamy, S. Comparative assessment of raw and acid-activated preparations of novel Pongamia pinnata shells for adsorption of hexavalent chromium from simulated wastewater.
2020	Environmental Research	Chandrasekaran, A., Patra, C., Narayanasamy, S., Subbiah, S. Adsorptive removal of Ciprofloxacin and Amoxicillin from single and binary aqueous systems using acid-activated carbon from Prosopis juliflora.
2020	Environmental Science and Pollution Research	Kumar, S., Patra, C., Narayanasamy, S., Rajaraman, P.V. Performance of acid-activated water caltrop (Trapa natans) shell in fixed bed column for hexavalent chromium removal from simulated wastewater.
2020	Journal of Environmental Chemical Engineering	Ajmani, A., Patra, C., Subbiah, S., Narayanasamy, S. Packed bed column studies of hexavalent chromium adsorption by zinc chloride activated carbon synthesized from Phanera vahlii fruit biomass.
2020	Chemistry and Ecology	Shahnaz, T., Patra, C., Sharma, V., Narayanasamy, S. A comparative study of raw, acid-modified and EDTA-complexed Acacia auriculiformis biomass for the removal of hexavalent chromium.
2019	Environmental Science and Pollution Research	Patra, C., Medisetti, R.M.N., Pakshirajan, K., Narayanasamy, S. Assessment of raw, acid-modified and chelated biomass for sequestration of hexavalent chromium from aqueous solution using Sterculia villosa Roxb. shells.
2019	International Journal of Environmental Science and Technology	Karthik, V., Saravanan, K., Patra, C. Biosorption of Acid Yellow 12 from simulated wastewater by non-viable T. harzianum: kinetics, isotherm and thermodynamic studies.
2019	Journal of Environmental Chemical Engineering	E, S., N, Saranya, Patra, C., Varghese, L.A., Narayanasamy, S. Biosorption potential of Gliricidia sepium leaf powder to sequester hexavalent chromium from synthetic aqueous solution.
2018	Bioresource Technology Reports	Nakkeeran, E., Patra, C., Shahnaz, T., Rangabhashiyam, S., Narayanasamy, S. Continuous biosorption assessment for the removal of hexavalent chromium from aqueous solutions using Strychnos nux vomica fruit shell.
2018	Desalination and Water Treatment	Abhishek, A., Saranya, N., Patra, C., Narayanasamy, S. Studies on the remediation of chromium (VI) from simulated wastewater using novel biomass of Pinus kesiya cone.

Award and Honours :

Title	Activity	Given by	Year
SECOND PLACE in POSTER PRESENTATION: SCIENTIFIQUE	POSTER PRESENTATION	Research and Industrial Conclave Integration 2022 (RIC 2022) organised by Indian Institute of Technology Guwahati, Assam, India	2022

BEST RAPID PRESENTATION & POSTER AWARD	POSTER PRESENTATION	International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BRE3CH-2021) organized by CSIR-INDIA, CSIR-Indian Institute of Petroleum Dehradun and The Biotech Research Society-India (BRSI)	2021