

CONTACT

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RESEARCH EXPERIENCE

*AUG 2019 - JULY
2020*

- **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA**
MS Project
Iron enriched Biochar nanocomposites for the removal of anionic metal species from aqueous environment.

*MAY 2018 - JULY
2018*

- **NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHUBANESWAR**
SUMMER INTERN
Synthesis and Photophysical Studies of Perovskite Quantum Dots in Absence and Presence of an Organic Dye.

*MAY 2017 - JULY
2017*

- **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI**
SUMMER INTERN
Synthesis, Characterization and Structural Analysis Of Mono & Di-Fluoro Substituted Cinnamide Derivative.

EDUCATION

2015-2020

- **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, KOLKATA**
BS-MS in Chemical Sciences
7.16/10 CGPA

PUBLICATION

- Rajak, J.K., Khandelwal, N., Behera, M.P. et al. Removal of chromate ions from leachate-contaminated groundwater samples of Khan Chandpur, India, using chitin modified iron-enriched hydroxyapatite nanocomposite. Environ Sci Pollut Res (2021).
- Khandelwal, N., Behera, M.P., Rajak, J.K. et al. Biochar–nZVI nanocomposite: optimization of grain size and Fe0 loading, application and removal mechanism of anionic metal species from soft water, hard water and groundwater. Clean Techn Environ Policy 22, 1015–1024 (2020).
- Khandelwal, N., Rajak, J.K., Behera, M.P., et al. Kinetics and isotherm studies for the removal of Cr(VI) from synthetic hard water using Fe0 -Biochar composite. (9th International Conference on Sustainable Waste Management towards Circular Economy (9th Icon SWM-CE 2019) At: Bhubaneswar, Odisha, India.

SKILLS

- **Material characterization Skills**
Electron Microscopy (FESEM, TEM), FT-IR, NMR, X-Ray Diffraction (pXRD, Single-Crystal XRD), Colloidal properties (Zeta Sizer, Particle size analyzer).

- **Analytical Skills**

UV-Vis spectroscopy, XRF (pellets and fusion bead technique), ICP-MS/OES, Ion Chromatography (IC), High Performance Liquid Chromatography (HPLC), Fluorescence correlation spectroscopy.

- **Computational Skills**

Languages used so far: C++, Python (Basic) | Tools: GNU PLOT
Software: Origin, Chem draw | Platforms: Windows, Ubuntu

HONOURS AND AWARDS

- **Aug 2015 - May 2020 | DST-INSPIRE SHE Scholarship**

A monthly scholarship of INR 5000, travel and research allowance for national and international projects.

WORKSHOPS ATTENDED

- Royal Society of Chemistry Roadshow 2018, IISER Kolkata, India (September 2018).
- ACS Publications Workshop, The Journal of Physical Chemistry, IISER Kolkata, India (July 2018)
- National Science Camp (VIJYOSHI) 2015.
- INSPIRE SCIENCE CAMP 2013

REFERENCE

- **Gopala Krishna Darbha - "Department of Earth-Sciences, IISER Kolkata"**

Assistant Professor
gkdarbha@iiserkol.ac.in

- **Balaram Mukhopadhyay - "Department of Chemical Sciences, IISER Kolkata"**

Professor
mbalaram@iiserkol.ac.in

- **Moloy Sarkar - "School of Chemical Sciences, NISER Bhubaneswar"**

Assistant Professor
msarkar@niser.ac.in