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Research Interrest

Sedimentalogy-Sequence stratigraphy of Phanerozoic and Proterozoic basin; Low Temperature geochemistry; Paleoredox-Paleoclimate-Paleoenvironment

Ongoing Research

- Sedimentalogical & geochemical evolution of Jurassic succession in Tethy (Spiti Himalya)
- Sedimentalogical & geochemical aspect of infratrappean Lameta succession: Paleoclimate-Paleoenvironmental signal of dinasures grazing land
- Sedimentalogical and geochemical asepect in parts of Vindhyan basin with clay mineral genessic

Eductaion

2016 to 2022
- Ph.D in Science
  - University: *Jadavpur University*
  - Thesis title: Facets of Proterozoic Sedimentation against the backdrop of a carbonate-siliciclastic transition: examples from parts of the Vindhyan Supergroup, Central India
  - Supervisor: *Prof. Subir Sarkar and Prof. Pulak Sengupta*

2014-2016
- Master of Science (M.Sc) in Applied Geology
  - University: *Jadavpur University*

2011-2014
- Bachelor of Science (B.Sc) in Geological Sciences
  - University: *Jadavpur University*

Research Publications

1) Choudhuri, A., El Albani, A., *Mandal*, S., Sarkar, S., 2023. Biotic vs abiotic origin of unusual features from Mesoproterozoic of Vindhyan Supergroup, India. Annales de Paléontologie, 109(3),1-12, 10.1016/j.annpal.2023.102629.
2) Choudhuri, A., *Mandal*, S., Bumby, A., Pillai, S., 2023. Glacial sedimentation in Northern Gondwana: insights from the Talchir formation, Manendragarh, India. Geological Magazine 160(6),10.1017/S0016756823000353
3) Mandal, S., Roy Choudhury, T., Das, A., Sarkar, S., Banerjee, S., 2022. Shallow marine glauconitization during the Proterozoic in response to intrabasinal tectonics: A study from the Proterozoic Lower Bhander Sandstone, Central India. Precambrian Reseach 372. https://doi.org/10.1016/j.precamres.2022.106596.
4) Mandal, S., Banerjee, S., Sarkar, S., Mondal, I., Roy Choudhury, T., 2020. Origin and sequence stratigraphic implications of high-alumina glauconite within the Lower Quartzite, Vindhyan Supergroup. Marine and Petroleum Geology. 112(104040): https://doi.org/10.1016/j.marpetgeo.2019.104040.
5) Mandal, S., Choudhuri, A., Mondal, I., Sarkar, S., Chakraborty, P.P., Banerjee, S., 2019. Revisiting the boundary between the Lower and Upper Vindhyan, Son valley, India. J Earth Syst Sci. 128 (222): https://doi.org/10.1007/s12040-019-1250-2.
6) Sarkar, S., Choudhuri, A., Mandal, S., Bose, P.K., 2019. Flat pebbles and their edge-wise fabric in relation to 2-D microbial mat. Geological Journal. 54:2566-2587.

Research materials and methodology

Materails	➢ Sandstone, Shale, Carbonate, Glauconite
Methodology	➢ Fieldwork, Thin-section study, Mijor-minir-trace ement concentration, EPMA point analysis, Redox-sensitive trace element (RSTE)

References

Available on Request.