

List of Publications

Journal Publications

Barik, S. S., Singh, R. K., Tripathy, S., Farooq, S. H., & **Prusty, P.** (2022). Bioavailability of metals in coastal lagoon sediments and their influence on benthic foraminifera. *Science of The Total Environment*, 825 (June 2022), 153986. <https://doi.org/10.1016/j.scitotenv.2022.153986>

Prusty, P., & Farooq, S. H. (2021). Understanding the effects of periodic freshening and salinization on coastal water quality and aquifer sediments through laboratory-based column experiments. *Journal of Hydrology*, 603 (Part C, December), 127060. <https://doi.org/10.1016/j.jhydrol.2021.127060>

Zimik, H. V, Farooq, S. H., & **Prusty, P.** (2021). Source characterization of trace elements and assessment of heavy metal contamination in the soil around Tarabalo geothermal field, Odisha, India. *Arabian Journal of Geosciences*, 14 (11), 988. <https://doi.org/10.1007/s12517-021-07366-y>

Prusty, P., & Farooq, S. H. (2020). Seawater intrusion in the coastal aquifers of India - A review. *HydroResearch*, 3, 61–74. <https://doi.org/10.1016/j.hydres.2020.06.001>

Prusty, P., & Farooq, S. H. (2020). Application of Water Quality Index and Multivariate Statistical Analysis for Assessing Coastal Water Quality. *Environmental Processes*, 7 (3), 805–825. <https://doi.org/10.1007/s40710-020-00453-4>

Barik, S. S., **Prusty, P.**, Singh, R. K., Tripathy, S., Farooq, S. H., & Sharma, K. (2020). Seasonal and spatial variations in elemental distributions in surface sediments of Chilika Lake in response to change in salinity and grain size distribution. *Environmental Earth Sciences*, 79 (11), 269. <https://doi.org/10.1007/s12665-020-09009-z>

Prusty, P., Farooq, S. H., Swain, D., & Chandrasekharam, D. (2020). Association of geomorphic features with groundwater quality and freshwater availability in coastal regions. *International Journal of Environmental Science and Technology*, 17 (6), 3313–3328. <https://doi.org/10.1007/s13762-020-02706-z>

Barik, S. S., Singh, R. K., Jena, P. S., Tripathy, S., Sharma, K., & **Prusty, P.** (2019). Spatio-temporal variations in ecosystem and CO₂ sequestration in coastal lagoon: A foraminiferal perspective. *Marine Micropaleontology*, 147 (February), 43–56. <https://doi.org/10.1016/j.marmicro.2019.02.003>

Farooq, S. H., **Prusty, P.**, Singh, R. K., Sen, S., & Chandrasekharam, D. (2018). Fluoride contamination of groundwater and its seasonal variability in parts of Purulia district, West Bengal, India. *Arabian Journal of Geosciences*, 11 (22), 709. <https://doi.org/10.1007/s12517-018-4062-9>

Prusty, P.*, Farooq, S. H., Zimik, H. V., & Barik, S. S. (2018). Assessment of the factors controlling groundwater quality in a coastal aquifer adjacent to the Bay of Bengal, India. *Environmental Earth Sciences*, 77 (22), 762. <https://doi.org/10.1007/s12665-018-7943-z>

Zimik, H. V., Farooq, S. H., & **Prusty, P.** (2017). Geochemical evaluation of thermal springs in Odisha, India. *Environmental Earth Sciences*, 76 (17), 593. <https://doi.org/10.1007/s12665-017-6925-x>

Chapters in Book

Nallusamy, B., Aslam, M., & **P., Pintu.** (2023). Assessment of groundwater quality in Chikballapur and Sidlagatta areas, Karnataka using multivariate statistical analysis. In B. N, M. Aslam, M. Gandhi, & S. Hussain (Eds.), *Geological Developments in Anthropocene* (pp. 1–13). Excel India Publishers.

Prusty, P., & Farooq, S. H. (2022). Potential tools for identification of saltwater intrusion into the coastal aquifers: A case study from East Coastal Regions of India. In A. K. Tiwari, A. Kumar, A. K. Singh, T. N. Singh, E. Suozzi, G. Matta, & S. Lo Russo (Eds.), *Water Scarcity, Contamination and Management* (5th ed., pp. 247–269). Elsevier Inc. <https://doi.org/10.1016/B978-0-323-85378-1.00013-1>

Publications in National and International Conferences

1. **Prusty, P.***, & Farooq, S. H. (2023). Understanding of sediment-water interaction processes in coastal aquifers through laboratory-based column experiments. *Goldschmidt Abstracts*, 13667, July 09-14, Lyon, France, (Virtual). <https://doi.org/10.7185/gold2023.13667>
2. **Prusty, P.***, & Farooq, S. H. (2020). Changes in aquifer sediments and water quality due to periodic exposure of aquifer to freshwater and seawater. *Goldschmidt Abstracts*, 2126, June 21-26, Virtual (Honolulu, USA)
3. **Prusty, P.***, & Farooq, S. H. (2019). Saltwater Intrusion Vulnerability of a Coastal Aquifer along the Bay of Bengal, India. *Goldschmidt Abstracts*, 2718, August 18-23, Barcelona, Spain
4. **Prusty, P.***, & Farooq, S. H. (2019). Saltwater Intrusion: An Emerging Coastal Hazard along the East Coast of India. 3rd National Geo-Research Scholars' Meet, June 6-8, WIHG, Dehradun, Uttarakhand, India
5. **Prusty, P.***, & Farooq, S. H. (2019). Occurrence of freshwater in a saltwater intruded coastal aquifer along the Puri coast, Odisha. National Science Day Poster presentation (9th Researcher Scholars' Day), February 28, IIT Bhubaneswar, India (Best Poster Award)

6. **Prusty, P.**, Farooq, S. H., & Zimik, H. V. (2018). Assessment of Groundwater Quality and Seasonal Variability of Trace Elements in Coastal Groundwater of Puri District, India. Goldschmidt Abstracts, 2073, August 12-17, Boston, USA
7. **Prusty, P.**, Farooq, S. H., & Zimik, H. V. (2017). Geomorphic Control on Occurrence of Fresh Groundwater in a Saltwater Intruded Coastal Aquifer. Geological Society of America Abstracts, 49, 6, October 23-25, Washington, USA
8. **Prusty, P.**, Farooq, S. H., & Zimik, H. V. (2017). Extent of Seawater Intrusion and Identification of Freshwater Zones in the Coastal Aquifer of Puri District, India: A Geochemical Approach. Goldschmidt Abstracts, 3226, August 13-18, Paris, France