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# PUBLICATIONS

## Journal Publications

1. Bajpai, M., **Mishra, S.**,\* Gaur, S. et al. Optimization of Groundwater Pumping and River-Aquifer Exchanges for Management of Water Resources. *Water Resour Manage* 36, 1863–1878 (2022). <https://doi.org/10.1007/s11269-022-03112-5>
2. **Mishra, S.**, Bosc, L., Gaur, S. et al. Handling Large Decision Variables in Multi-Objective Groundwater Optimization Problems: Aquifer Parameter-Based Clustering Approach. *Water Resour Manage* 37, 4553–4568 (2023). <https://doi.org/10.1007/s11269-023-03580-3>
3. **Mishra, S.**, Gaur, S., Kacem, M. and Ohri, A. (2024), Exploring Simulation–Optimization for Sustainable Groundwater Management: A Critical Review. *CLEAN – Soil, Air, Water* e202300471. <https://doi.org/10.1002/clen.202300471>
4. Kumar, R., Tewari, A., **Mishra, S.**, Singh, P.K., Gaur, S. (2024), Multi-Facet analysis of analytical and numerical models to resolve sustainable artificial recharge rates in unconfined aquifers, *Journal of Environmental Management*, 362, 121233, (2024) <https://doi.org/10.1016/j.jenvman.2024.121233>

## Conference Publications

1. **Mishra, S.**, Bajpai, M., Kacem, M., Gaur, S., & Ohri, A. Many Objective Optimization of Water-Energy-Environment Nexus for Sustainable Groundwater Management. *AGU24*.
2. Bajpai, M., **Mishra, S.**, Gaur, S., & Singh, K. Evaluation of Physics-Informed Deep Operator Networks as High-Fidelity Surrogate Models for Hydrogeological Simulation in Complex Multi-Well Aquifer Systems. *AGU24*.
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