

RESEARCH PUBLICATIONS

1. Pal, P. P., Mahato, J. K., & **Gupta, S. K. (2024)**. Investigation on modified Linz-Donawitz slag for the treatment of Pb²⁺ ion-laden wastewater-A Slag utilization sustainable approach. *Physics and Chemistry of the Earth, Parts A/B/C*, 103676. <https://doi.org/10.1016/j.pce.2024.103676>
2. Jaydev Kumar Mahato, Shivani Rawat, **Sunil Kumar Gupta**, Brahmdeo Yadav **(2024)**. Adsorptive Remediation of Coal Bed Methane Produced Water (CBMW) using a Novel bio-adsorbent and Modern Enable Artificial Intelligence Modeling. *Chemical Engineering Research and Design*, <https://doi.org/10.1016/j.cherd.2024.05.029>.
3. Gupta, S., & **Gupta, S. K. (2024)**. Development of AI-based hybrid soft computing models for prediction of critical river water quality indicators. *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-024-32984-w>
4. Kumar, D., & **Gupta, S. K. (2024)**. Sustainable approach for the treatment of dye-containing wastewater—a critical review. *Reviews in Chemical Engineering*. <https://doi.org/10.1515/revce-2023-0030>
5. Chorol, L., & **Gupta, S. K. (2023)**. Hybrid analytic network process (ANP)-Entropy model, time series analysis for predicting nitrate and fluoride in groundwater and cumulative health risk assessment. *Journal of Cleaner Production*, 428; 139316 **(Q1, IF 11.1)**
6. Kumar, D., & **Gupta, S. K. (2023)**. Green synthesis of novel biochar from *Abelmoschus esculentus* seeds for direct blue 86 dye removal: Characterization, RSM optimization, isotherms, kinetics, and fixed bed column studies. *Environmental Pollution*, 122559. **(Q1, IF 8.9)**
7. Kumar, N., **Gupta, S. K.**, & Yadav, B. (2023). Optimization of process parameters of a thermal digester for the rapid conversion of food waste into value-added soil conditioner. *Waste Management & Research*, 0734242X231167078. **(Q2, IF 3.9)**
8. Chorol, L., & **Gupta, S. K. (2023)**. Hydrochemical investigation of groundwater in a trans-Himalayan region of Ladakh, India, using geochemical modelling and entropy technique. *Environmental Geochemistry and Health*, 1-17. **(Q2, IF 4.898)**
9. Chorol, L., & **Gupta, S. K. (2023)**. Evaluation of groundwater heavy metal pollution index through analytical hierarchy process and its health risk assessment via Monte Carlo simulation. *Process Safety and Environmental Protection*. **(Q1, IF 7.926)**
10. Gupta, S., & **Gupta, S. K. (2022)**. Application of Monte Carlo simulation for carcinogenic and non-carcinogenic risks assessment through multi-exposure pathways of heavy metals of river water and sediment, India. *Environmental Geochemistry and Health*, 1-22. **(Q2, IF 4.898)**
11. Kumar, N., Gedam, P., & **Gupta, S. K. (2022)**. Investigating the dynamics of ammonia volatilization and the role of additives in thermal digestion of food waste. *Journal of Environmental Management*, 323, 116312. **(Q1, IF 8.91)**

12. Kumar, A., Kumari, M., & **Gupta, S. K. (2022)**. Performance study of fly-ash-derived coagulant in removing natural organic matter from drinking water: synthesis, characterization, and modelling. *Environmental Monitoring and Assessment*, 194(11), 821. **(Q3, IF 3.42)**
13. Kumar, D., & **Gupta, S. K. (2022)**. Electrochemical oxidation of direct blue 86 dye using MMO coated Ti anode: modelling, kinetics and degradation pathway. *Chemical Engineering and Processing-Process Intensification*, 109127. **(Q2, IF 4.264)**
14. Teja, D. R., Gupta, S., Yadav, B., & **Gupta, S. K. (2022)**. Development of fuzzy leachate pollution index for treatability-based classification of solid waste landfills. *Environmental Science and Pollution Research*, 1-10. **(Q2, IF 5.19)**
15. Mahato, J. K., & **Gupta, S. K. (2022)**. Relative assessment of activated carbon and Nano-Material based adsorbents used for obliteration of THMs precursors-regeneration and techno-economic feasibility analysis. *Advanced Powder Technology*, 33(8), 103700. **(Q1, IF 4.96)**
16. Kumari, M., & **Gupta, S. K. (2022)**. Cumulative human health risk analysis of trihalomethanes exposure in drinking water systems. *Journal of Environmental Management*, 321, 115949. **(Q1, IF 8.91)**
17. R N Thakur, Randhir Kumar Gupta, **Sunil Kumar Gupta (2022)**. Performance of jute geotextile treated with bitumen emulsion for subgrade improvement: *Arabian Journal of Geosciences* 15(13):1187. **(Q3, IF 1.985)**
18. Kumari, M., & **Gupta, S. K. (2022)**. Occurrence and Exposure to Trihalomethanes in Drinking Water: A Systematic Review and Meta-analysis. *Exposure and Health*, 1-25. **(Q1, IF 11.422)**
19. Kumar, N., & **Gupta, S. K. (2022)**. Exploring drying kinetics and fate of nutrients in thermal digestion of solid organic waste. *Science of The Total Environment*, 155804. **(Q1, IF 7.9)**
20. Mahato, J. K., & **Gupta, S. K. (2022)**. Advanced oxidation of Trihalomethane (THMs) precursors and season-wise multi-pathway human carcinogenic risk assessment in Indian drinking water supplies. *Process Safety and Environmental Protection*, 159, 996-1007. **(Q1, IF 7.926)**
21. Mahato, J. K., & **Gupta, S. K. (2022)**. Exploring applicability of artificial intelligence and multivariate linear regression model for prediction of trihalomethanes in drinking water. *International Journal of Environmental Science and Technology*, 19(6), 5275-5288. **(Q2, I.F- 3.519)**
22. Khatri, V. N., Kumar, A., **Gupta, S. K.**, Dutta, R. K., & Gnananandaraao, T. (2022). Numerical study on the uplift capacity of under-reamed piles in clay with linearly increasing cohesion. *International Journal of Geotechnical Engineering*, 16(4), 438-449. **(Q2, I.F-1.421)**
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24. Ali, S., **Gupta, S. K.**, Sinha, A., Khan, S. U., & Ali, H. (2022). Health risk assessment due to fluoride contamination in groundwater of Bichpuri, Agra, India: a case study. *Modeling Earth Systems and Environment*, 8(1), 299-307.
25. Kumar, N., & **Gupta, S. K.** (2021). Exploring the feasibility of thermal digestion process: A novel technique, for the rapid treatment and reuse of solid organic waste as organic fertilizer. *Journal of Cleaner Production*, 318, 128600. **(Q1, IF 9.29)**
26. Mahato, J. K., & **Gupta, S. K.** (2021). Exceptional adsorption of different spectral indices of natural organic matter (NOM) by using cerium oxide nanoparticles (CONPs). *Environmental Science and Pollution Research*, 1-10. **(Q2, I.F- 5.19)**
27. Kumar, A., Khatri, V. N., & **Gupta, S. K.** (2021). Numerical and analytical study on uplift capacity of under-reamed piles in sand. *Marine Georesources & Geotechnology*, 1-38. **(Q2, IF 2.673)**
28. Ali, S., Khan, S. U., **Gupta, S. K.**, Sinha, A., Gupta, M. K., Abbasnia, A., & Mohammadi, A. A. (2021). Health risk assessment due to fluoride exposure from groundwater in rural areas of Agra, India: Monte Carlo simulation. *International Journal of Environmental Science and Technology*, 18(11), 3665-3676. **(Q2, I.F-2.86)**
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31. Gupta, S., & **Gupta, S. K.** (2021). Development and evaluation of an innovative Enhanced River Pollution Index model for holistic monitoring and management of river water quality. *Environmental Science and Pollution Research*, 1-14. **(Q2, IF 4.223)**
32. Ali, S., Mahato, J. K., **Gupta, S. K.**, Sinha, A., & Islam, R. (2021). Defluoridation of Ground-water Using Formaldehyde-Treated Agricultural Waste-Wheat, Oats, And Pea Straw. *Eart & Envi Scie Res & Rev*, 4 (2): 109-115.
33. Kumari, M., **Gupta, S.K.**, (2020). A novel process of adsorption cum enhanced coagulation-flocculation spiked with magnetic nanoadsorbents for the removal of aromatic and hydrophobic fraction of natural organic matter along with turbidity from drinking water. *Journal of Cleaner Production* 244,118899. **(Q1, IF 9.29)**
34. Kumar, A., Khatri, V. N., & **Gupta, S. K.** (2020). Effect of linearly increasing cohesion on the compression and uplift capacity of the under-reamed pile in clay. *SN Applied Sciences*, 2(2), 1-17.
35. Puja Anchal & Minashree Kumari & **Sunil Kumar Gupta** (2020). Human health risk estimation and predictive modeling of halogenated disinfection by- products (chloroform) in swimming pool waters: a case study of Dhanbad, Jharkhand, India. *Journal of Environmental Health Science and Engineering*: <https://doi.org/10.1007/s40201-020-00578-6>

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38. Kumar, A., Khatri, V. N., & **Gupta, S. K.** (2020). Uplift Capacity Determination for an Under-Reamed Pile in Non-homogeneous Clay. In *Advances in Offshore Geotechnics* (pp. 337-345). Springer, Singapore.
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40. Kumari, M., Gupta, S.K., (2019). Response surface methodological (RSM) approach for optimizing the removal of trihalomethanes (THMs) and its precursor's by surfactant modified magnetic nanoadsorbents (MNPs) - An endeavor to diminish probable cancer risk. *Scientific Reports* 9(1),18339
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Book Chapter

1. Kumar, N., Mahato, J. K., & Gupta, S. K. (2024). Design and operation of advanced waste biomass processing system. In *Processing of Biomass Waste* (pp. 55-70). Elsevier.
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Books & Monograph:

- ❖ Gupta and Kumar (2015). "Land Surveying-I". Asian Publishers, U.P., India.

Jaydev Kumar Mahato and **Sunil Kumar Gupta** (2021). Distribution of natural organic matter (nom) and trihalomethane compounds (THMs) in drinking water supplies of India- a case study. ENVIS Centre on Environmental Problems of Mining, Indian Institute of Technology, Indian School of Mines, Dhanbad. Volume Number: 20; ISSN No: 0972-4656