

Saurabh Kumar Singh

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Area of Interest: Sediment geochemistry, Paleoclimatic reconstruction, Soil pollution and biodiversity observation.

Education

- Master of Philosophy (2014-16) dissertation entitled “Geochemical study of roadside sediments from Ghaziabad to Meerut highway, Uttar Pradesh, India” from School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- Master of Science (2012-2014) dissertation entitled “Geochemistry of sediments from a paleolake in Triloknath Valley, Himachal Pradesh, India” from School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- Bachelor of Science (2009-2012) in Geology (Hons.) from Banaras Hindu University, Varanasi, India.

Teaching Experience

- Guest Faculty (AECC-EVS) at Bharati College, University of Delhi (2021-2022)
- Guest Faculty/Councillor (EVS) at Non-Collegiate Women’s Education Board Delhi University (Duration: April-2021 to July-2021); College: Motilal Nehru College.
- Guest Faculty/Councillor (EVS) at Non-Collegiate Women’s Education Board Delhi University (Duration: February-2021 to March-2021); College: Motilal Nehru College.
- Guest Faculty/Councillor (EVS) at Non-Collegiate Women’s Education Board Delhi University (Duration: January-2021 to March-2021); College: Aditi Mahavidyalay.
- Guest Faculty/Councillor (EVS) at Non-Collegiate Women’s Education Board Delhi University (Duration: February-2020 to May-2020); College: Miranda House.
- Guest Faculty/Councillor (EVS) at School of Open Learning Delhi University (Duration: Sep-2019 to Dec 2019); College: Janaki Devi Memorial.
- Guest Faculty (EVS) at Acharya Narendra Dev College, Delhi University (Duration: Nov-2019 to Dec-2019).

Fellowships and Awards

- CSIR-UGC JRF qualified in Earth, Atmosphere, Ocean and Planetary Science.

Research Publications

1. Bali, Rameshwar, Imran Khan, S. J. Sangode, Amit K. Mishra, S. Nawaz Ali, **Saurabh K. Singh**, Jayant K. Tripathi, Dhruv Sen Singh, and Purnima Srivastava. "Mid-to late

Holocene climate response from the Triloknath palaeolake, Lahaul Himalaya based on multiproxy data." *Geomorphology* 284 (2017): 206-219.

2. Singh, Swati, Anurag Chaudhary, Sumi Handique, **Saurabh K. Singh**, and Jayant K. Tripathi. "Biological Weathering and Geochemical Fractionation by Termites: A Case Study of Loessic Sediments from Jawaharlal Nehru University, New Delhi, India." *Earth Science India* 10 (III) (2017): 94-107.
3. Punia, Anita, N. Siva Siddaiah, and **Saurabh K. Singh**. "Source and assessment of metal pollution at Khetri copper mine tailings and neighboring soils, Rajasthan, India." *Bulletin of environmental contamination and toxicology* 99 (5) (2017): 633-641.
4. Krishna, Mayank, **Saurabh K. Singh**, Jayant K. Tripathi, Rupesh Chaturvedi, and Satish Chandra Garkoti. "Effect of alder on soil bacteria offers an alternative explanation to the role played by alder in rock weathering." *Proceedings of the National Academy of Sciences* (2019): 201910718.
5. Raj, Rachna, Jayant K. Tripathi, Pankaj Kumar, **Saurabh K. Singh**, Binita Phartiyal, Anupam Sharma, Alpa Sridhar, and Laxman Singh Chamyal. "Palaeoclimatic and sea-level fluctuations from the last deglaciation to late Holocene from western India: Evidence from multiproxy studies." *Journal of Asian Earth Sciences* 214 (2021): 104777.
6. Khan, Imran, Rameshwar Bali, K. K. Agarwal, Dharendra Kumar, and **Saurabh K. Singh**. "Morphometric Analysis of Parvati Basin, NW Himalaya: A Remote Sensing and GIS Based Approach." *Journal of the Geological Society of India* 97, no. 2 (2021): 165-172.
7. Prakash, Surya, C. B. Maurya, Ved Prakash, **Saurabh Singh**, and Akash Jaiswal. "Butterfly Diversity of Jawaharlal Nehru University Campus, Delhi–India." *ENVIS RP: Geodiversity and Impact on Environment*, Special Issue: Vol. 26 (4).

Book chapter

1. Punia, Anita, and **Saurabh Kumar Singh**. "Contamination of water resources in the mining region." In *Contamination of Water*, pp. 3-17. Academic Press, 2021. (ISBN 9780128240588). <https://doi.org/10.1016/B978-0-12-824058-8.00015-3>.
2. Punia, Anita, **Saurabh Kumar Singh**, and Rishikesh Bharti. "Source, Assessment, and Remediation of Metals in Groundwater." *Groundwater Geochemistry: Pollution and Remediation Methods* (2021): 79-104. (ISBN 9781119709695). <https://doi.org/10.1002/9781119709732.ch5>.
3. Punia, Anita, **Saurabh Kumar Singh** and Rishikesh Bharti. "Effect of climate change on urban water availability and its remediation in different continents. Urban

water crisis and management.” Ed. Arun Lal Srivastav AL, Madhav S., Bhardwaj AK, Valsami-Jones E. Elsevier, USA (2022). (ISBN 9780323918381)

Conference Publications/Presentations and Workshops Attended

1. **Singh, Saurabh K**, Jayant K. Tripathi, Amit K. Mishra, Rameshwar Bali, S. Nawaz Ali, Imran Khan. “Weathering and phosphorus dynamics in the Late Holocene High Himalayan Triloknath palaeolake of Himachal Pradesh.” *The 30th Himalaya Karakoram Tibet (HKT) workshop*, at Wadia Institute of Himalayan Geology, Dehradun, India, 6th – 8th October, 2015.
2. **Singh, Saurabh K**, Jayant K Tripathi, Swati Singh, Anurag Chaudhary, N Siva Siddaiah. “Environmental Geochemistry of roadside sediments along the Ghaziabad-Meerut Road (NH 58), India.” *National Seminar on Recent Advances in Environmental Toxicology*, Jamia Milia Islamia, New Delhi, India, 13th – 14th February, 2017.
3. **Singh, Saurabh K**, Jayant K. Tripathi. “Geochemistry of Baruasagar lake sediments: source and weathering process.” *National Seminar on Emerging Environmental issues and Sustainable solution’ (NEISS-2022)*, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, 22nd April, 2022.
4. Punia, Anita, Neelam Siva Siddaiah and **Saurabh Kumar Singh**. “Geochemistry and grain size distribution of copper mine tailings, Khetri Rajasthan and its impact”. *National Seminar on Past and Present Geochemical Processes Impacts of Climate Change*, Jawaharlal Nehru University, New Delhi, 22nd - 23rd December, 2015.