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Ph.D. (Geology)

Address:

Scientist 'D'
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I am a Quaternary paleoclimatologist. My primary area of research is the geochemistry of Quaternary sediments and water chemistry.

AREA OF INTEREST

- Quaternary Palaeoclimatology / Quaternary Geochemistry
- Water chemistry and quality assessment of surface and sub-surface water
- Hard rock geochemistry and petrology

PRESENT POSITION

Scientist 'D' at Birbal Sahni Institute of Palaeosciences, Lucknow, India.

RESEARCH PROJECT

Department of Science and Technology Young Scientist research project (Fast track)

Role: Principal Investigator

Title: "Multiproxy palaeoclimatic studies Quaternary Lake sediments from Southern Madhya Pradesh, India".

RESEARCH PUBLICATION (PUBLISHED)

1. **Kumar, K.,** Sharma, A., Srivastava, P., Thakur, B., (2022). Implications for catchment weathering, provenance and climatic records from a late Pleistocene sedimentary sequence in Gujarat, India. ***Quaternary Research,*** 1-18. doi:10.1017/qua.2022.39.

2. Morthekai, P., Tiwari, P., Murari, M.K., Singh, P., Thakur, B., Manoj, M.C., Ali, S.N., Singh, V.K., **Kumar, K.,** Rai, J., Dubey, H., Srivastava, P., (2022). Further investigations towards luminescence dating of diatoms. ***Radiation Measurements***, 156, 106803.

3. Kapur, V., **Kumar, K**., Pandya, P., Ghosh, A.K., Chakraborty, A., Sharma, A., Chauhan, G., Thakkar, M.G., (2022). Oldest Asian Record of Snapping Shrimps (Alpheidae) from Kutch Basin, Western India and Associated Biota: Biostratigraphic, Palaeoenvironmental and Palaeoecological Significance. ***Acta Geologica Sinica***, doi: 10.1111/1755-6724.14951.

4. Halder, P., Shukla, M., **Kumar, K**., Sharma, A., (2021). Mineralogical and Geochemical Evidence of Fluid-rock Interaction at the Shallow Crustal Level in Koyna Seismogenic Region, Maharashtra, India: Impact and Implications. ***Acta Geologica Sinica***, 95, 40-43.

5. Subrahmanyam, G., **Kumar, K.,** Shah, A.P., Maurya, D.M., Sharma, A., Chamyal, L.S., Archana, G., (2021). Geochemical characteristics control potential microbial activity in exposed Late Quaternary alluvial deposits. ***Pedobiologia Journal of Soil Ecology***, (87-88), 150747.

6. Ansari, A., Singh, V.K., Sharma, M., **Kumar, K.,** (2021). High authigenic Co enrichment in the non-euxinic buff-grey and black shale of the Chandarpur Group, Chhattisgarh Supergroup: Implication for the late Mesoproterozoic shallow marine redox condition. ***Terra Nova***, DOI: 10.1111/ter.12564.

7. Farooqui, A., Pillai, S.S.K., Agnihotri, D., Khan, S., Tewari, R., Shukla, S.K., Ali, S., Trivedi, A., Pandita, S.K., **Kumar, K**., Bhat, G.D., Agnihotri, R. (2021). Impact of climate on the evolution of vegetation in tectonically active Karewa basin, Kashmir Himalayas. ***J. Earth Syst. Sci***, 130, 93.

8. Chauhan, M.S., Sharma, A., Trivedi, A., **Kumar, K**., Ferguson, D.C., Rathore, P.S. (2021). Late Quaternary vegetation shifts and climate change in the sub-alpine belt of the Parvati Valley, Himachal Pradesh, India. ***Quaternary International***, DOI.: 10.1016/j.quaint.2020.12.029.

9. Chaddha, A.S., Mathews, R.P., **Kumar, K**., Ali, S.N., Phartiyal, B., Manoj, M.C., Sharma, A. (2021). Caves as interim-refugia: Chemical signatures of human habitation under extreme environments of Ladakh, NW India. ***Journal of Archaeological Science: Reports***, 36, 102799.

10. Pandey, S., Urrego, L.E., Eswaran, Y., Deori, D., Farooqui, A., **Kumar, K**. (2021). Modern pollen and vegetation relationships in a mangrove tidal creek, South Andaman, Andaman & Nicobar Islands, India and their palaeoecological implications. ***Catena***, 200, 105-130.

11. Ansari, A.H., Pandey, S.K., **Kumar, K**., Agrawal, S., Ahmad, S., Shekhar, M., (2020). Palaeoredox link with the late Neoproterozoic–early Cambrian Bilara carbonate deposition, Marwar Supergroup, India. ***Carbonates and Evaporites***, 35:38

12. **Kamlesh Kumar,** Shailesh Agarwal, Anupam Sharma and Shilpa Pandey (2019). Indian summer monsoon variability and vegetation change in the core monsoon zone, India during the Holocene: A Multiproxy Study. ***The Holocene***, 29 (I), 110-119.

13. Deepa Agnihotri, Sundeep K. Pandita, Rajni Tewari, Ram Awatar, Ulf Linnemann, S. Suresh K. Pillai, Arun Joshi, Saurabh Gautam, **Kamlesh Kumar** (**2018**). Palynology and detrital zircon geochronology of the Carboniferous Fenestella Shale Formation of the Tethyan

realm in Kashmir Himalaya: Implications for global correlation and floristic evolution. ***Journal of Asian Earth Sciences***, 157, 348-359.

14. **Kamlesh Kumar**, Rajni Tewari, Deepa Agnihotri, Anupam Sharma, Sundeep K. Pandita, Suresh S.K. Pillai, Vartika Singh, Ghulam D. Bhat (**2017**). Geochemistry of the Permian-Triassic sequences of the Guryul Ravine section, Jammu and Kashmir, India: Implications for oceanic redox conditions. ***Geo ResJ,*** 13, 114-125.

15. Anupam Sharma, **Kamlesh Kumar**, Amzad Laskar, Sunil Kumar Singh, Pankaj Mehta (**2017**). Oxygen, deuterium, and strontium isotope characteristics of the Indus River water system. ***Geomorphology***, 284, 5-16.

16. Syed Azharuddin, Pawan Govil, A.D. Singh, RaviMishra, Shailesh Agrawal, A.K. Tiwari, **Kamlesh Kumar** (**2016**). Monsoon-influenced variations in productivity and lithogenic flux along offshore Saurashtra, NE Arabian Sea during the Holocene and Younger Dryas: A multi-proxyapproach.***Palaeogeography,Palaeoclimatology,Palaeoecology***, doi.org/10.1016/j.palaeo.2016.11.018

17. Vartika Singh, Sundeep K Pandita, Rajni Tewari, Peter J. van Hengstum, Suresh S.K Pillai Deepa Agnihotri, **Kamlesh Kumar,** Ghulam D. Bhatt (2015). Thecamoebians (Testate amoebae) straddling the Permian-Triassic Boundary in the Guryal Ravine section, India: Evolutionary and Palaeoecological Implications. ***Plos One***.

18. Rajni Tewari, Ram Awtar, Sundeep K Pandita, Stephen McLoughlin, Deepa Agnihotri, Suresh S.K Pillai, Vartika Singh, **Kamlesh Kumar,** Ghulam D. Bhatt (2015). The Permian Triassic palynological transition in the Guryal Ravine section, Kashmir, India: Implications for Tethyan Gondwanan correlations. ***Earth Science Review***, 149, 53-66.

19. M.S. Chauhan, Anupam Sharma, Binita Phartiyal, **Kamlesh Kumar** (2013). Holocene vegetation and climate variations in central India: A study based on multiproxy evidences. ***Journal of Asian Earth Sciences***, **77**, 45-58.

20. **Kamlesh Kumar**, Sankar Chatterjee, Rajni Tewari, N.C. Mehrotra, Gaurav Kumar Singh. (2013). Petrographic evidence as an indicator of volcanic forest fire from the Triassic of Allan Hills, South Victoria Land, Antarctica. ***Current Science***, **104** (4), 422-424.

21. M.S. Chauhan, **Kamlesh Kumar**, M.F. Quamar, Anupam Sharma (2013). Correlation of data on loss-on-ignition and palynology for Late Quaternary climate change in southwestern Madhya Pradesh, India. ***Current Science***, **104** (3), 299-301.

22. Anupam Sharma, Sarajit Sensarma, **Kamlesh Kumar**, P.P. Khanna, N.K. Saini (2013). Mineralogy and geochemistry of the Mahi River sediments in tectonically active western India: Implications for Deccan large igneous province source, weathering and mobility of elements in a semi-arid climate. ***Geochimica et Cosmochimica Acta***, **104**, 63-83.

23. Anju Verma, Biswajeet Thakur, Vibhuti rai, **Kamlesh Kumar** (2012). Study of Relationship between Water Table and Soil Degradation in Sharda Sahayak Canal Command in Barabanki District, Uttar Pradesh, India. ***Agricultural Journal***, **7(2)**, 128-134.

24. Anupam Sharma, Abhay Singh, **Kamlesh Kumar** (2012). Environmental Geochemistry and Quality Assessment of Surface and Subsurface Water of Mahi River Basin, Western India. ***Environmental Earth Science***, **65**, 1231-1250.

25. Anupam Sharma, **Kamlesh Kumar**, Vandana Prasad, and Biswajeet Thakur (2011). Effect of water chemistry on Diatom distribution in sub-tropical Western Indian region: a case study from the Mahi River Basin. ***Current Science***, **101** (8), 1011-1015.