

Curriculum Vitae

Sanjay Kumar Singh Gahlaud

Scientist 'B'

Radiocarbon and Isotopic Characterization Laboratory
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Education:

- B.Sc.(Hons.) : 2013, Department of geology, Banaras Hindu University, Varanasi (U.P.), India
- M.Sc. (Tech): 2016, Department of geology, Banaras Hindu University, Varanasi (U.P.), India
- Ph.D. (pursuing): Department of geology, Banaras Hindu University, Varanasi, Birbal Sahni Institute of Palaeosciences, Lucknow

Awards/ Achievements:

- Qualified GATE 2016 in the subject 'Geology and Geophysics'
- Qualified GATE 2017 in the subject 'Geology and Geophysics'
- Qualified CSIR-JRF (NET) fellowship in June 2016 in the subject 'Earth, Atmosphere, Ocean Planetary Science'

Research Interests:

- Radiocarbon (^{14}C) measurements using AMS and Conventional (beta decay counting based)
- Stable isotope geochemistry ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, $\delta^{34}\text{S}$)
- Biogeochemical cycle (Carbon, Nitrogen and Sulfur)

Instrument Experiences:

- Coupled EA-CHS-IRMS-Age
- IRMS (Isotope-ratio mass spectrometer) (Elementar®)
- Elemental Analyzer (Elementar® and Thermo scientific®)
- Carbonate Handling System (Ionplus®)
- Automated Graphitization Equipment (Ionplus®)
- Liquid Scintillation Counter (Perkin Elmer®)

Scientific workshop attended

- Workshop on "*Isotopes in Earth, Ocean and Atmosphere Sciences*" during Feb 18-20, 2019 organized jointly by IUAC Delhi and NIO at NIO Goa
- Three days E-Workshop (Webinar) on the "*Luminescence dating technique and new applications*" from 25-27 November 2020.
- Workshop on "*Graphite preparation facility and AMS measurements*" during 29 Oct, 2018 to 2 Nov, 2018 in IUAC, Delhi.

Publications:

1. Rajesh Agnihotri, **SKS Gahlaud**, N Patel, R Sharma, Pankaj Kumar, S Chopra (2020) Radiocarbon measurements using new automated graphite preparation laboratory coupled with stable isotope mass-spectrometry at Birbal Sahni Institute of Palaeosciences, Lucknow (India). Journal of environmental radioactivity.
2. Rajesh Agnihorti, AnjumFarooqui, NiteshkumarKhonde, Runcie P Mathews, Shalini Sharma, **SKS Gahlaud**, Sanjay Kumar Manjul, Arvin Manjul, Ravi Sawlani (2021) Microscopic, biochemical and stable isotopic investigation of seven multi-nutritional food-balls from Indus archaeological site, Rajasthan (India). Journal of Archaeological Science: Reports.
3. BinitaPhartiyal, Randheer Singh, Debarati Nag, Anupam Sharma, Rajesh Agnihotri, Vandana Prasad, Tandong Yao, BalasubramanianKarthick, Priyanka Joshi, **Sanjay KS Gahlaud**, Biswajeet Thakur (2021) Reconstructing climate variability during the last four millennia from trans-Himalaya (Ladakh-Karakoram, India) using multiple proxies. Palaeogeography, Palaeoclimatology, Palaeoecology.
4. Avijit Ghosh, Amit K Singh, Sunil Kumar, MC Manna, Ranjan Bhattacharyya, Rajesh Agnihortri, **Sanjay K Singh Gahlaud**, Manjanagouda S Sannagoudar, KaminiGautam, RV Kumar, Suresh K Chaudhari (2020) Differentiating biological and chemical factors of top and deep soil carbon sequestration in semi-arid tropical Inceptisol: an outcome of structural equation modeling. Carbon Management.
5. Choudhurimayum Pankaj Sharma, Suman LataRawat, Pradeep Srivastava, Narendra K Meena, Rajesh Agnihotri, Anil Kumar, Poonam Chahal, **SKS Gahlaud**, UK Shukla (2020) High-resolution climatic (monsoonal) variability reconstructed from a continuous~ 2700-year sediment record from Northwest Himalaya (Ladakh). The Holocene.
6. Choudhurimayum PANKAJ Sharma, Suman LataRawat, Pradeep Srivastava, Narendra K Meena, Rajesh Agnihotri, Anil Kumar, Poonam Chahal, **SKS Gahlaud**, UK Shukla (2019) High Resolution Climate (Monsoon) Record of the Last Three Millennia Reconstructed from a Multi-Proxy Analysis of an Organic Rich Sediment Deposit (Ladakh-NW Himalaya). AGU.

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