

Dr. Sajid Ali



Designation

Associate Professor

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Department of Environmental Science
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Major Research Interest

- ✓ Heavy metals contamination in Surface and sub-surface water and sediments and health risk assessment
- ✓ Paleoclimate reconstruction
- ✓ Tectonic and climatic link with Indian monsoon
- ✓ Long-term Carbon Cycle
- ✓ Use of traditional and non-traditional isotopes (e.g. Sr, Nd, Pb, Li, Si, Hf) to understand earth surface processes

Teaching and Research Experience **15 years**

Administrative experience **1 years**

PhD Guidance (under progress): **2**

Research Publications: **22**

Citations: **373**

H index: **6**

International Visits:

Switzerland, Germany, Morocco, United Kingdom (UK),
France, Italy, Denmark, Argentina, Mauritius

ACADEMIC

PROFESSIONAL QUALIFICATION

Degree/Exam	Topic/Specialization	University	Year	Remark
Ph. D.	Cretaceous to Quaternary Siliciclastic Sediments of the Tarfaya Basin, Marginal Atlantic, SW Morocco: Petrography, Geochemistry, Provenance, Climate and Weathering	University of Kiel, Germany	2012	
Master of Science	Applied Geology	Indian Institute of Technology (IIT), Roorkee	2007	70.6%
Bachelor of Science	Geology (Hons.)	Aligarh Muslim University (AMU), Aligarh	2004	67.8% Rank-II

AWARDS/SCHOLORSHIPS/GRANTS

S. No.	Title	Duration
1.	Conference travel grant by Young Earth Scientist (YES), held in Berlin, Germany	2019
2.	DAAD research grant to visit GEOMAR Helmholtz Centre for Ocean Research, Kiel Germany	11-12/2018
3.	Postdoc-project funding at Physical Research Laboratory, Ahmedabad, India	2015-2017
4.	Postdoc project funding at GEOMAR Helmholtz Centre for Ocean Research, Kiel, Germany	2013-2014
5.	Conference travel grant by International Association of Sedimentologists, held in Mendoza, Argentina	2010
6.	Project funding by RWE Dea oil Company to conduct research at Kiel University Kiel, Germany	2008-2012
7.	Swiss Government funding to work as research scientist at Swiss Federal Institute of Technology ETH Zurich, Switzerland	2007-2008

MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Title	Professional Body
1.	Fellow Member	European Association of Geochemistry
2.	Fellow Member	International Association of Sedimentologist
3.	Life Member	Indian Ocean Society of India
4.	Fellow Member	Young Earth Scientist (YES)

TRAINING ATTENDED

S. No.	Title	Organization	Duration
1.	Teaching training of Academic instruction for university teachers	University of Kiel, Germany	February, 2013
2.	Professional manuscript writing training	University of Kiel, Germany	June, 2010
3.	Intercultural Training	Studentenwerk Schleswig Holstein, Kiel, Germany	November, 2008
4.	Introduction to ArcGIS 9	Indian Institute of Technology (IIT), Roorkee	April, 2007

PROFESSIONAL EXPERIENCE

September 2011 to till date

Associate Professor Department of Environmental Science, Jamia Millia Islamia, New Delhi

Responsibilities included teaching at the post-graduate level. Research and Academic planning. Currently supervising nine M. Sc. and two Ph.D. candidates.

April 2017 to August 2022

Scientist Birbal Sahni Institute of Palaeosciences (BSIP), Lucknow. Responsibilities included teaching at pre-PhD level. Actively involved in the research activities of the Institute.

May 2015 to April 2017

Post-doctoral fellow Physical Research Laboratory, Ahmedabad

Actively involved in the research activities of the department and field studies.

January 2013 to December 2014

Post-doctoral fellow GEOMAR Helmholtz Ocean Research Centre, Kiel Germany

Responsibilities included teaching at the undergraduate level. Actively involved in the research activities of the Institute, field studies and supervising graduate students.

July 2007 to June 2008

Research Scientist Swiss Federal Institute of Technology (ETH), Zurich, Switzerland

Actively involved in the research activities of the Institute and field studies.

COURSES TAUGHT

Graduate Level

S. No.	Course
1.	Environmental Geosciences
2.	EIA and Legislation
3.	Environmental Instrumentation
4.	Data Analysis in Environmental systems

RESEARCH GUIDANCE

Ph.D. in Progress

S. No.	Title	Student	Status
1.	Tectonic and climatic control on Indian monsoon during Middle-Late Miocene: a record from Himalayan foreland basin	Mohd Munazir Chauhan	In progress
2.	Weathering processes and climatic manifestation during the Late Quaternary from Central Ganga Plain	Nazakat Ali	In progress

M. Sc. DISSERTATION GUIDANCE

S. No.	Title	Student	Year
1.	Late Quaternary Paleoclimate and environment records from Rajasthan	Faizan Khan	In progress
2.	Precipitation pattern over the past 120 years: A record from Indian subcontinent	Sanya Narbar	In progress
3.	Toxic mechanisms of five heavy metals: Mercury, Lead, Chromium, Cadmium and Arsenic	Suhail Ahmad	In progress
4.	Heavy metal concentration in Yamuna river flood plain	Shamza Alam	In progress
5.	Soil texture, structure and chemistry	Shanawaz Ahmed	In progress
6.	HM accumulation in Yamuna river water: a record from New Delhi	Manuprasad Kc	In progress
7.	BETX pollution in New Delhi	Husna Parveen	In progress
8.	Heavy metal contamination of ground water, North Delhi	Fazle Ahmed	In progress
9.	Ground water contamination and health risk assessment, South Delhi	Afreen Fatma	In progress
10.	Periodic aridification drove changes in the outflow of Mediterranean water into the North Atlantic during the past 3.2 million years	Stellan Rieken	2013

ACADEMIC CONTRIBUTION

REVIEWER OF RESEARCH JOURNALS

S. No.	Journal
1.	International Journal of Sediment Research Elsevier
2.	Journal of African Earth Sciences Elsevier
3.	Arabian Journal of Geosciences Springer
4.	Geological Journal Wiley
5.	Lithosphere GeoScienceWord
6.	Open Geosciences Walter de Gruyter

CORPORATE CONTRIBUTIONS

CONFERENCES ORGANISED

S. No.	Capacity	Title	Year
1.	Convener	Breaking Boundaries-Unifying geosciences, IGC, New Delhi	2020
2.	Convener	Rocking Earth's Future, YES, Berlin	2019

PUBLICATIONS

RESEARCH PAPERS

Total 22

Journals

12

S. No.	Paper Details	Year	Listed in
1.	Sambal P., Saradambal RS, Srivastava J., Dsouza N, Balakrishna K., Chauhan MM, Ali S. (2022). Assessment of heavy metal pollution and human risk in the southeastern part of Mahanadi River Delta, India. International Journal of Environmental Science and Technology.	2022	WOS & Scopus
2.	Sambal P., Saradambal RS, Srivastava J., Gurumurthy G.P., Chauhan MM, Ali S. , Alam M., Jena P., Shivam A., Bhushan R. (accepted). Precipitation and vegetation dynamics since 2600 years along the Mahanadi River Delta, East coast of India. The Holocene.	2022	WOS & Scopus
3.	Singhla G., Ali S. et al. (2022) Geochemical evidence for the provenance, tectonic settings and depositional environment during the Cambrian Series 2-Wuliua (Miaolingian) from the Kunzam La Formation in the Sumna Valley, Spiti, NW Himalaya (Journal of Earth System Sciences).	2022	WOS & Scopus
4.	Ali. S. , Hathorne E. C., Frank M. (2021). Persistent South Asian Monsoon induced erosion over the past 27 Myrs. Paleocenography, Pleaeoclimatology Journal.	2021	WOS & Scopus
5.	Ali S. , Phartiyal B., Taloor A., Arif M., Singh B.P. (2021). Provenance, weathering and paleoclimatic records of the Pliocene-Pleistocene sequences of the Himalayan foreland basin, NW Himalaya. Arabian Journal of Geosciences.	2021	WOS & scopus
6.	Farooque A., Pillai S. K., Agnihotri D., Khan S., Tewari R., Shukla S., Ali S. et al. (2021). Impact of climate on the evolution of vegetation in tectonically active Karewa basin Kashmir Himalaya. Journal of Earth System Science, 13093.	2021	WOS & Scopus
7.	Taloor A.K., Kothiyari G.C. Manhas D. S., Bisht H., Mehta P., Sharma M., Mahajan S., Roy S., Singh A. K., Ali S. (2021). Spatio-temporal changes in the Machoi glacier Zaskar Himalaya India using geospatial technology. Quaternary Science Advances, 4, 100031.	2021	WOS & Scopus
8.	Taloor A.K., Pir R.A. Adimallah N. Ali S. et al. (2020). Spring water quality and discharge assessment in the Basantar watershed of Jammu Himalaya using GIS and water quality Index. Groundwater for Sustainable Development, 10, 100364.	2020	WOS & Scopus
9.	Ali S. , Liu Z.F., Stattegger K., Khelifi, N., Kuhnt W. (2019). Paleoclimatic and paleoenvironmental reconstruction at Tarfaya Atlantic coastal basin (Morocco) based on clay mineral records from Upper Cretaceous to Quaternary, Arabic Journal of Geosciences, 12 (6).	2019	WOS & Scopus
10.	Ali. S. , Hathorne E. C., Frank M., Yirgaw D.G., Stattegger K., Stumpf R., Johnson J.E., Collett T.S., Giosan L. (2015). Indian Monsoon history over the past 60 kyr: recorded by radiogenic isotopes and clay mineral assemblages in the Andaman Sea.	2015	WOS & Scopus
11.	Ali S. , Stattegger K., Garbe-Schönberg D., Frank M., Kraft S., Kuhnt W. (2014). The provenance of Cretaceous to Quaternary sediments in the Tarfaya basin, SW Morocco: Evidence from trace element geochemistry and radiogenic Nd-Sr isotopes. Journal of African Earth Sciences 90, 64-76.	2014	WOS & Scopus
12.	Ali S. , Stattegger K., Garbe-Schönberg D., Kuhnt W., Kluth O., Jabour H. (2013). Petrography and geochemistry of Cretaceous to Quaternary siliciclastic rocks in the Tarfaya Atlantic marginal basin, SW Morocco: implications for tectonic settings, weathering and provenance. International Journal of Earth Sciences 103(1), 265-280.	2013	WOS & Scopus

S. No.	Paper Details	Year	Listed in
1.	Sajid Ali , Mohd Munazir Chauhan, Anjum Farooqui, Salman Khan. Late Pliocene climatic control on sediment supply to the Karewa basin, Kashmir Valley, Western Himalaya. ICES, Riyadh, Saudi Arabia	2023	Peer reviewed
2.	Mohd Munazir Chauhan, Sajid Ali , Birender P. Singh. Chemical weathering record of the Himalayan foreland basin in response to changing monsoon climate during the Late Miocene. AGU Fall Meeting, Chicago, USA	2022	Peer reviewed
3.	Ishwar Chandra Rahi, Sajid Ali , Anupam Sharma, Vandana Prasad. Paleogene-Eocene Thermal Maximum continental sediments in the Barmer Basin, Rajasthan, India: A record of enhanced precipitation in South Asian. Goldschmidt, Hawaii, USA	2022	Peer reviewed
4.	Ali S. , Hathorne E. C., Frank M., Miocene to recent chemical weathering in the Himalaya inferred from the stable Li-isotopes. Goldschmidt, France	2021	Peer reviewed
5.	Sajid Ali . Late Quaternary Indian monsoon records from Andaman Sea. YES Congress, Berlin, Germany	2019	Peer reviewed
6.	Ali S. , Hathorne E. C., Frank M. Persistent South Indian monsoon induced weathering over the past 27 million years. IISF, Lucknow	2018	Peer reviewed
7.	Ali S. , Hathorne E. C., Frank M. Sunil K. Singh. South Indian monsoon records from the Bay of Bengal during the past 27 million years. Goa, India	2016	Peer reviewed
8.	Ali, S. , Stattegger, K., Garbe-Schonberg, D., Kuhnt, W., Kluth, O., Jabour, H. Provenance, Tectonic Settings And Weathering Of The Siliciclastic Rocks From Lower Cretaceous To Quaternary In The Tarfaya Basin, Sw Morocco	2012	Peer reviewed
9.	Ali, S. , Stattegger, K., Garbe-Schonberg, D., Kuhnt, W., Kluth, O., Jabour, H. Provenance and Weathering of the Siliciclastic rocks In The Tarfaya Atlantic Coastal Basin, SW Morocco. AAPG, Marrakech, Morocco	2011	Peer reviewed
10.	Ali, S. , Stattegger, K., Garbe-Schonberg, D., Kuhnt, W., Kluth, O., Jabour, H. Provenance of Tertiary siliciclastic rocks in the Tarfaya-Laayoune Atlantic Coastal Basin, SW Morocco. 18 th IAS Sedimentological Congress, Mendoza, Argentina	2010	Peer reviewed

Communicated

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S. No.	Paper Details	Year	Listed in
1.	Ali S. , Hathorne E. C., Frank M. Miocene to recent chemical weathering in the Himalaya inferred from the stable Li-isotopes (Geochemical Perspective Letters journal).		
2.	Ali S. , Hathorne E. C., Frank M., Singh S.K., Johnson J.E., Giosan L. Long-term weathering history of the Andaman Sea clays linked to South Asian monsoon (Geochemistry, Geophysics, Geosystems).		
3.	Ali S. , Farooque A., Khan S. Late Pliocene climatic control on sediment supply to the Karewa basin, Western Himalaya (Geochemistry Journal).		
4.	Chauhan M.M, Ali S. , Singh B.P, Adlakha V., Phartiyal B. Chemical weathering record of the Himalayan foreland basin in response to changing monsoon climate during the Late Miocene. (P3 Journal).		