



Dr. JAVID AHMAD GANAI

*CSIR- SRA (SENIOR RESEARCH ASSOCIATE)
UNDER: SCIENTESTS POOL SCHEME*

Host Institute: Department of Earth Sciences
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Career Summary and Expertise

I hold a Ph.D. and M.Sc. in Applied Geology from Aligarh Muslim University, India and over 10 years of academic and research experience. I have pursued my Post Doctorate under DST-Young scientist Scheme sponsored by SERB India from October 2015 to March 2019. Having served as faculty at Kashmir University for more than 5 years, I currently hold a postdoc position at the University of Kashmir under the CSIR-SRA POOL-Scheme since April 2023. My scholarly contributions include over 25 peer-reviewed articles and supervision of 10 M.Sc. students. My academic impact is reflected in my Citation Index of ~200, with an h-Index of 09 and i-10 Index of 8. My research specializes in sedimentary and isotope geochemistry, with focal points on weathering, Provenance, Permo-Triassic mass extinction, water-rock interaction, and climate change, particularly in the north western Himalaya region.

EDUCATION:

| INSTITUTION AND LOCATION | DEGREE | COMPLETION DATE | FIELD OF STUDY |
|--|--|------------------------|--|
| <i>University Of Kashmir</i> | Postdoctoral Young Scientist Fellowship | 03/2019 | Geology/ Geochemistry |
| <i>Aligarh Muslim University, Aligarh</i> | Ph. D | 09/2014 | Geology/Geochemistry |
| <i>Aligarh Muslim University, Aligarh</i> | M.Sc. | 07/2009 | Applied Geology |
| <i>University of Kashmir</i> | B.Sc. | 2006 | Geology, Chemistry & Zoology |
| <i>State Board of School Education Jammu & Kashmir</i> | (10+2) | 2003 | English, Physics, Chemistry & Biology |
| <i>State Board of School Education Jammu & Kashmir</i> | matric | 1999-2000 | English, Math, Science, Social Science |
| <i>Diploma in Computer Applications</i> | Computer Applications, Business Accounting | 2014 | NCPUL |

POSITIONS AND EMPLOYMENT

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|-----------------------------|--|
| April 2023- till date | CSIR Senior Research Associate (Under pool scientist Scheme) |
| July 2019- January 2023 | Lecturer Contractual, University of Kashmir, J & K-India |
| October 2015 - March 2019 | Young Scientist /Postdoctoral Fellow, (SERB). |
| June 2015-October 2015 | Lecturer Contractual, University of Kashmir |
| January 2011-November 2013. | Senior Research Fellow (SRF), AMU, Aligarh-India |
| January 2011- August 2011. | Junior Research Fellow (JRF), AMU, Aligarh-India |

PEER REVIEWED PUBLICATIONS

1. Bhargava, O.N., Singh, B.P., Shukla, U.K., **Ganai, J.A.**, Singh, P., Thorie, A. and Mazumdar, P., 2024. Contributions to the Proterozoic–Phanerozoic successions in the Himalaya: Status report 2020-2024. Proceedings of the Indian National Science Academy, pp.1-15
2. Rashid, S.A., **Ganai, J.A.**, Absar, N. and Ashok, M., 2023. Prodigious shift in provenance across Permian-Triassic Boundary at Guryul Ravine Section, Kashmir, and Tethys Himalaya, India: Evidences from Sr and Nd isotopes. *Geochemistry*, p.125981.
3. **Javid A. Ganai**, Shaik A. Rashid, Abdul Samad Siddiqui, Nurul Absar, Heena, Ghulam Jeelani, 2023. Understanding the provenance and depositional conditions of Triassic sedimentary rocks from the Spiti region, Tethys Himalaya, India, *Journal of Asian Earth Sciences*: X,V 9, 100154.
4. Saleem, M, Jeelani, G, Pall, IA, **Ganai, JA**, & Kumar, S 2022. Water and sediment geochemistry of an urban lake: Implications to weathering and anthropogenic activity. *International Journal of Sediment Research*, 37(6), 809-822.
5. Rashid, SA, Absar, N, **Ganai, JA**, Raza, MQ 2022. Sulphur isotopic evidence for end-Permian mass extinction from Guryul Ravine, Permo-Triassic Boundary section, Kashmir, India. *Geological society of India* 98(9):1189-1198.
6. Khan, H, Rashid, SA, **Ganai, JA** 2022. Clay Mineralogy, Petrography and Geochemistry of Cretaceous siliciclastic sedimentary rocks of Giupal Formation, Spiti region, Himachal Pradesh, Tethys Himalaya, *Himalayan Geology*, 43, 457-470.
7. Shah, RA, **Ganai, JA**, Yaseen, S, Yadav, JS, Rai, SK, Dar, TA, Tiwari, SK 2021. Aquatic geochemistry of a major freshwater lake in the Kashmir Himalaya: solute acquisition and denudation process in the lacustrine system. *Environmental Monitoring Assessment*. 193(12):835 DOI: 10.1007/s10661-021-09623-9.

8. Rashid, SA, **Ganai, JA**, Bhadra, S, Islam, N, Shamshad A 2022. Magmatic and metamorphic history of the Proterozoic Lesser Himalayan Crystallines from Bomdila area, Arunachal Pradesh, NE Lesser Himalaya, India: Constraints from whole rock and mineral chemistry. *Geological Journal*, <https://doi.org/10.1002/gj.4383>
9. **Ganai, JA**, Hina, K, Bhat, IM, Rashid, SA. 2021. Provenance and paleo weathering reconstruction of the Carboniferous Fenestella Shale Formation, north-west Tethys Himalaya, India. *Earth system sciences*.DOI:10.1007/s12040-021-01762-4.
10. Siddiqui, AS; Khan, H; **Ganai, JA**; Alam, MM; Rashid, SA **2021**. Source rocks and paleoweathering characteristics of Triassic sedimentary rocks from Spiti region, Tethys Himalaya, India. *Journal of Applied Geochemistry*, 23.86-98.
11. Bhargava, ON, Singh, BP, Pandey, B, **Ganai, JA**, Bhat, GM., Prasad, SK., Rashid, SA. 2020. Contributions to the Paleozoic and Mesozoic of the Himalaya. *Proceedings of the National Academy of Sciences*. 86, 217-225.
12. **Javid, AG**, Rashid, SA. 2019. Anoxia and fluctuating climate recorded from the Devonian-Carboniferous black shales, Tethys Himalaya, India: A multi-proxy approach. *International journal of Earth Sciences*, 108, 863-883.
13. Rashid, SA, **Ganai, JA**. 2018. Depositional environments, provenance and paleoclimatic implications of Ordovician siliciclastic rocks of the Thango Formation, Spiti Valley, Tethys Himalaya, northern India. *Journal of Asian Earth Science*, 157, 371-386.
14. **Ganai, JA**, Rashid, SA, Shakil AR. 2018. Evaluation of terrigenous input, diagenetic alteration and depositional conditions of Lower Carboniferous carbonates of Tethys Himalaya, India, *Solid Earth Sciences*, 3, 33-49.
15. Farooq, AD, **Ganai, JA**, Shakeel, A. 2017. Groundwater trace element chemistry of the karstified limestone of Andhra Pradesh, India. *Environmental Earth Sciences* 76, 1-19.
16. Akhtar, RM, Balaram, V, **Ganai, JA**, Shamim, AD, A, Keshav-Krishna. 2016. Geochemistry of sedimentary rocks from Permian-Triassic boundary sections of Tethys Himalaya: implications to paleo-weathering, provenance and tectonic setting. *Acta Geochimica*. 35, 428-436.
17. **Ganai, JA**, Rashid, SA, Masroor, AM. 2016. Petrography and Geochemical studies of Upper Paleozoic sandstones from the Tethys Himalaya, Spiti Valley, Himachal Pradesh. *Journal of Applied Geochemistry* 18, 3-14.
18. Rashid, SA and **Ganai, JA**. 2015. Preservation of Glacial and Interglacial phases in Tethys Himalaya: Evidence from geochemistry and petrography of Permo-Carboniferous sandstones from the Spiti region, Himachal Pradesh, India. *Arabian Journal of Geosciences*, 8, 9345-9363.

19. Rashid, SA, **Ganai, JA**, Masoodi, A, Fareed AK. 2014. Major and trace element geochemistry of Lake Sediments India: Implications for weathering and climate control. *Arabian Journal of Geosciences* 8, 5677-5684.
20. **Ganai, JA**, Rashid SA, Masroor Alam, M, Balaram, V, Sathyanarayanan, M. 2014. The geochemistry of Permo-Carboniferous black shales from Spiti region, Himachal Pradesh, Tethys Himalaya: A record of Provenance and change in climate. *Himalayan Geology* 35, 31-39.
21. **Ganai, JA**, and Rashid, SA. 2014. Rare earth element geochemistry of the Permo-Carboniferous Clastic Sedimentary rocks from the Spiti Region, Tethys Himalaya: Significance of Eu and Ce anomalies. *Chinese Journal of Geochemistry*, 34, 252-264.
22. Rashid, SA, Islam, N, and **Ganai, JA**. 2010. Precambrian granitic Magmatism in the NE Himalaya: Implications for ancient tectonics, in Leech, M.L., and others, eds., Proceedings for the 25th Himalaya-Karakoram-Tibet workshop: *U.S. Geological survey, open-file Report* 2010-1099, 2p.

BOOK CHAPTERS

1. Shaik, AR, **Ganai, JA**, Bhat, IM, Islam, N. 2018. Geochemistry, Petrogenesis and Tectonic significance of the Proterozoic mafic dykes from the Bomdila area, NE Lesser Himalaya, India. *Dyke Swarms of the World: A Modern Perspective*, 415-437.
2. Rashid, SA, Shamshad, A, Islam, N, **Ganai, JA**. 2018. Precambrian crustal history unraveled from the geochemical studies of post-Archean rocks, Arunachal Pradesh, NE Lesser Himalaya. *Geological Evolution of the Precambrian Indian Shield*, 551-575.

COMMUNICATED / UNDER REVIEW PUBLICATIONS

1. Controls of groundwater saturated and unsaturated zones on stream water hydrochemical dynamics in high-altitude glacial catchments. *Science of the Total Environment*, (Review Submitted)
2. Cretaceous shales record significant change in tectonic setting, provenance and climate NW Tethyan Himalaya, India: evidences from geochemical and isotopic studies *Journal of Asian Earth Sciences: X* (Review Submitted)

CONFERENCE ABSTRACTS AND PRESENTATIONS

1. **Ganai, JA**, Islam, N, Shamshad, A, Rashid. SA. 2013. Geochemistry and Petrography of Permo-Carboniferous sandstones from the Spiti valley, Himachal Pradesh, India. In: *Seminar on Emerging issues and challenges in Petrology and environmental geology, AMU, Aligarh*, 5-7 March 2013, 28.
2. Rashid, SA, Islam, N, **Ganai, JA**, 2010. Metasedimentary rocks of the Bomdila formations, Arunachal Pradesh, NE Lesser Himalaya-potential rock for Oil and Gas. Abstract Volume, pp 2-3, *Petro fest*, 2010.
3. Rashid, SA, **Ganai, JA**, 2014. Geochemical characteristics of the Permo-Carboniferous Black Shale-hosted Silica-bearing Phosphatic nodules from the Spiti region, Himachal Pradesh, Tethys Himalaya, India. In: *International Seminar on Magmatism, tectonism and mineralization (MTM-2014) Kumaun University, Nainital*, 27-29 March-2014.

4. **Ganai, JA**, Rashid, SA, 2013. Permian Black shales of Spiti region, Himachal Pradesh, NW Tethys Himalaya – Potential source of significant metals. In: *international seminar on role of Earth Science and human Prosperity*. Abstract volume 4, pp 4.
5. Rashid, SA, and **Ganai, JA**, 2014. A record of shift in climate across Permo-carboniferous sequences in Tethys Himalaya: evidence from Geochemistry and Petrography of sandstones from the Spiti region, Himachal Pradesh, India: *In expert meet and conference on climate change and environmental sustainability: Recods from poles to tropics*, University of Lucknow, September 9-10, 2014, abstract volume pp.87.
6. Rashid, SA, **Ganai, JA**, 2013. Preservation of Glacial and Interglacial phases in Tethys Himalaya: Evidence from geochemistry and petrography of Permo-Carboniferous sandstones from the Spiti region, Himachal Pradesh, India. In: *Seminar on Recent developments and challenges in earth sciences*, AMU, Aligarh, 29 November 2014, 31.
7. Rashid, SA, **Ganai, JA**, 2015. Past climate record preserved in carbonates of Tethys Himalaya, India: Geochemical and Isotopic studies. In national Conference on Climate Change: *Past, Present and Future*, organized by Department of Geology, Poona College of Arts, Science and Commerce Poona, 12th – 13th January 2015, 11.

GRANTS AND FELLOWSHIPS:

- 2022 Senior Research Associateship (POOL SCIENTEST Scheme) from Council of Scientific & Industrial Research (CSIR) Human Resource Development Group of India.
- 2015-2018 SERB Young Scientist Grant from Department of Science & Technology (DST), Human Resource Development of India. (INR 30, 50,000).
- 2012-2013 DST Senior Research Fellowship from Department of Science & Technology (DST), Human Resource Development of India. (INR 16000 PM).
- 2011-2013 DST Junior Research Fellowship from Department of Science & Technology (DST), Human Resource Development of India. (INR 14000 PM).
- 2010-2011 UGC non-Net Fellow ship from Department of Earth

AWARDS AND HONOURS:

- 3rd prize achieved in oral presentation Organized by Counseling and Placement Cell of department of Geology, Aligarh Muslim University, Aligarh.
- Certificate of Hiking and trekking given by University of Kashmir, Jammu and Kashmir.

REVIEWED PAPERS FOR:

Journal names: Depositional Record; Arabian Journal of Geosciences, Environmental Earth Sciences, Acta Geochemica

POST-GRADUATE MENTORSHIP:

1. **Mis. Idatul-Nabi,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2020 to March, 2021. I mentored her for her post graduate Thesis entitled “Source rock characteristics and global significance of Permo-Triassic sedimentary rocks from Kashmir basin, Tethys Himalaya: Insights from sedimentology, geochemistry”
2. **Mis. Mehvish Muzaffar** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2020 to March, 2021. I mentored her for her post graduate Thesis entitled “Provenance, Paleo-Weathering of Carboniferous Fenestella shale Formation from Kashmir region, North-West Tethys Himalaya, India”
3. **Mis. Aiman Nisar Bhat** Post Graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2020 to March, 2021. I mentored her for her post graduate Thesis entitled “Geochemistry of Dal Lake sediments, Srinagar, India implications for provenance and paleo weathering”
4. **Mr. Pirzada Mohammad Haris,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2017 to August, 2018. I mentored him for his post graduate Thesis entitled “Petrographic and geochemical study of the Syringothyris limestones of Mammal Temple, Pahalgam region, Tethys Himalaya Kashmir; implications for its classification and terrigenous input”
5. **Mr. Mohammad Hanif Lone** Post Graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2017 to August, 2018. I mentored him for his post graduate Thesis entitled Petrographic Study of Carboniferous Sandstone of Pahalgam Region, North-Western Himalayas; Implications for Its Classification.
6. **Mr. Zubair Ahmad,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2018 to April, 2022. I mentored him for his post graduate Thesis entitled Review on Permo-Triassic Boundary of Kashmir/Himalaya.
7. **Mr. Zubair Ahmad,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2018 to April, 2022. I mentored him for his post graduate Thesis entitled Review on Permo-Triassic Boundary of Kashmir/Himalaya.
8. **Mr. Asrar Majeed,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2018 to April, 2022. I mentored him for his post graduate Thesis entitled “A Review on Palaeozoic Successions of Kashmir: A Geochemical Approach”
9. **Mr. Shahid Shafi Lone,** Post graduate Student from the Department of Earth Sciences, University of Kashmir, India. June 2018 to April, 2022. I mentored him for his post graduate Thesis entitled “Contribution to Paleozoic Succession of Kashmir: a Review”

PROFESSIONAL MEMBERSHIPS:

2014- Member, Geological society of sedimentology

2017- Member, Indian Meteorological Society

PROFESSIONAL SKILLS:

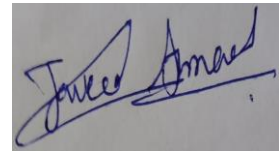
- Knowledge of solution preparation for geochemical analysis.
- Petrographic and Modal analysis
- Geostatistical data analysis,
- Good communication, presentation, scientific report and publication writing skills

Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge

Place: Srinagar

Date: 05-06-2023

A handwritten signature in blue ink, appearing to read "Javed Ahmad", is written over a horizontal line.

(Javid Ahmad Ganai)