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Volcanology & Geochemistry Laboratory,
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CURRENT RESEARCH INTERESTS

Ophiolites and their origin, Geochemical evolution of Earth mantle, Subduction zone processes and arc volcanism, Volcanological studies of Deccan Trap, Development of instrumentation techniques in Geosciences, Stable isotopic studies of groundwater and river water system, Felsic magmatism and Critical minerals, Geological mapping, and Geoarchaeology

ACADEMIC QUALIFICATIONS

PhD.	Geology, Physical Research Laboratory, Ahmadabad (degree awarded from MSU, Baroda) Submitted in 2011	2011
M.Sc.	Geology, Banaras Hindu University, Varanasi, India	2004
B.Sc.	Geology, Mathematics and Physics, University of Lucknow, Lucknow, India	2001

PROFESSIONAL EXPERIENCE

•	Visiting Scientist/scholar, Department of Earth science, University of Milan, Italy	2026-2027
•	Associate Professor, Department of Geology, Institute of Sciences, BHU, India	Since 2024
•	Assistant Professor, Department of Geology, Institute of Sciences, BHU, India	2018-2024
•	Geologist, Geological Survey of India, Ministry of Mines, India	2012-2017
•	Postdoctoral Researcher, Physical Research Laboratory, Ahmadabad	2011–2012
•	Doctoral student, Physical Research Laboratory, Ahmadabad	2005–2011

HONORS AND AWARDS

•	BHU IOE Grant for carryout research @ University of Milan, Italy under Global Experience for Faculty Programme (GEFP)	2025
•	Nominated for “Nurturing Future Leadership Program” by Hon. VC, BHU at IIM Shillong	2024
•	Geochemical Society Capacity Building Grant (USD 2500), Geochemical Society, USA	2024
•	Served as Judge, Outstanding students and PhD candidate Presentation Program (OSPP), EGU 2024	2024
•	Served as a Scientific expert committee, ICEGF, Sri Lanka	2020
•	External Expert, Board of Studies, Dept. of Earth Sciences, VBS Poorvanchal University, Jaunpur	2019
•	Selected for PRL summer internship programme for teachers, with fellowship (28/05/2018 to 02/07/2018)	2018
•	Selected as an Assistant Professor, Dept. of Geology, Lucknow University (Not joined)	2016
•	Selected as a Geologist (Group -A, Gazetted) conducted by UPSC, New Delhi, India (AIR-29)	2012
•	Selected as STA (Geology) conducted by SSC, New Delhi, India (Not Joined)	2011
•	Postdoctoral Research Fellowship, PRL, Dept. of Space, India	2011
•	Goldschmidt Travel grant (USD 1000) by Geochemical Society, USA, to attend Goldschmidt conference, Knoxville, USA (2010)	2010
•	PRL travel grant (Rs. 1 Lakh) to attend Goldschmidt conference, Knoxville, USA (2010)	2010
•	AOGS Grant by AOGS Committee for AOGS conference (Not availed)	2010
•	Fully Funded Fellowship for attending the EURISPET Program, Budapest under the Marie Curie Scheme	2008
•	Doctoral Research Fellowship from the PRL Doctoral Program, Department of Space, India	2005

GRANTS AND FUNDING (PI/Co-PI)

•	Respond Program (department of space) "Unravelling Himalayan permafrost dynamics and water security through remote sensing, field investigations and isotopic ratio analysis" (26,48,812 INR)	2026-2029
•	Transdisciplinary Grant, IOE, BHU on Archeological settlements, Ayodhya and Ambedkar Nagar, (₹10,00,000 INR)	2023-2025
•	IAEA research grant, Vienna, Project on Groundwater contamination in Singrauli coal mine area (3000 Euro)	2022-2024
•	UGC-BSR research Grant: Project of Ladakh ophiolite. (₹10,00,000 INR)	2018-2020
•	Institutes of Eminence (IoE) Seed Grant, BHU: project on Deccan rhyolite. (₹10,00,000 INR)	2020–2022
•	MOES Project: Project of Resolution of Himalaya and Pre-Himalaya metamorphism. (₹83,00,000 INR)	2019-2024

TEACHING EXPERIENCES

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|---|---------------------|
| • GLM-411 (M.Sc., Sem-IV), BHU, Instrumentation techniques | Postgraduate course |
| • GLM-202 (MSc, Sem-II), BHU, Geochemistry (72 students) | Postgraduate course |
| • GLM-207 (MSc, Sem-II), BHU, Geochemistry Practical (72 students) | Postgraduate course |
| • GLM-108 MSc, Sem – I), BHU, Igneous Petrology practical (72 students) | Postgraduate course |
| • GLM103 (MSc, Sem – I), BHU, Igneous Petrology (72 students) | Postgraduate course |
| • GLPR-13 (PhD, Sem-II), BHU, Solid Earth Geochemistry (20 students) | PhD coursework |
| • Techniques in Geological Research, BHU | PhD coursework |
| • GLB301 (BSc, Sem – III), BHU, Petrology and Economic Geology (100 students) | Graduate Course |
| • GLB302 (BSc, Sem – III), BHU, Petrology, and Economic Geology practical (100 students) | Graduate course |
| • GLB-505 (B.Sc., Sem-V), BHU Igneous Petrology, Mineralogy and Crystallography Practical (80 students) | Graduate course |
| • GLM-111 (M.Sc., Sem-I) Geological field training, BHU (70 students) | Postgraduate course |
| • B.Sc.02A (B.Sc., Sem-II) Element of Geology, BHU (120 Students) | Graduate course |
| • B.Sc. SEC course on Field Geology, BHU (120 students) | Graduate course |
| • B.Sc. VOC Course on Medical Geology, BHU (60 students) | Graduate course |

ADVISING AND MENTORING

Postdoctoral Student:

- **Dr. Janisar M Sheikh, Malviya PDF, BHU (Assistant Professor, Pondicherry University)**
- **Dr. Rupali Yadav, SRF, MOES project: 07/727 Postdoctoral researcher, UNAM, Mexico**
- **Dr. Tanya Srivastava, SRF, MOES project: 07/727, (Assistant Professor, JNU, New Delhi)**
- **Dr. Shubham Patel, Raja Jwala, PDF, BHU April 2025 to April 2026**

Doctoral students:

- **Nikhil Patel, (supervisor, BHU) with Dr Rajesh Agnihotri, Scientist F, BSIP, Lucknow:** working on “Geochronology and Isotopic investigations of geoarchaeological remains from different Archeological sites of India: implication to human–environment relationship *Submitted April 2024 Awarded 2025 (presently working as STA, IIT Kanpur, Kanpur, U. P., India)*
- **Prasenjit Barman, (supervisor, BHU) with Dr. V. K. Malviya, Sr. Mineralogist, GSI,** working on “The Shyok – Khardhung - Dras volcanics, Ladakh, India: Volcanology, Geochemistry and Geodynamics” *Submitted Feb. 2026 Awarded September 2026), Working as Senior Geologist, GSI*
- **Rajesh Kumar Joshi, (Supervisor, BHU) with Dr. Shivranjan Bharti, Director, GSI,** working on “Geochemistry, Ecology and importance of Andaman accretionary prism, Andaman, India” *(ongoing) since September 2021, working as Senior Geologist, GSI*
- **Sonalika Jena (supervisor, BHU)** has been working on Groundwater Characterization, estimation of its Residence Time, and Health Risk Assessment in a Riverine Alluvial Aquifer of the Yamuna River Valley in the marginal part of the Ganga Plain, India *(ongoing) since January 2023*
- **Aman Singh** has been working on Petrological geochemical studies on Ladakh Batholiths (ongoing) *since July 2024*
- **Aditya Singh** has been working on Petrological and geochemical studies on Karakoram Batholiths (ongoing) *since July 2024*
- **Vaishnavi Gupta** has been working on Ladakh ophiolites (ongoing) since **January 2026**
- **Prashant Rai** has been working on petrological and Geochemical characterization of Bombida group of Rock, Arunachal Pradesh

Postgraduate students (M.Sc. Thesis):

- Mr. Mukesh Anand (2018), working as a **Hydrologist** at Central Groundwater Board, Ministry of Water Resources, India
- Ms. Kanya Dwivedi (2018), working as a **Research Scientist** at CIMFER, Dhanbad
- Mr. Khasif Kamal (2019), working as a **Mine Inspector**, BPSC, Patna
- Mr. Rahul Kumar Singh (2019)
- Ms Shalini Singh (2020), Research Scholar, **IIT Gandhinagar**, PhD with Prof. Vikrant Jain
- Ms Kumari Rashmi (2020)
- Mr Uddalak Chakravarty (2021), Research scholar, under **MEXT Program**, Japan
- Mr Saumya Ranjan Biswal (2021)
- Ms. Aishwarya Singh (2022), Research scholar, **PRL, Ahmedabad**, 2023
- Mr Kalpiyoti Barman (2022), Research scholar, **IISER Pune**, 2024
- Ms Tanushri Malviya (2023) **M. Tech, IIT KGP**
- Mr. Asad Ali (2023) **Mud logger, Jindal Drilling**
- Ms. Ipshita P Sahu (2024), **Geologist, Oil India**
- Mr. Asif Raza (2024), Research scholar, **IIT ISM, Dhanbad**

- Ms Ishika Agrawal (2025) Research scholar, **PRL, Ahmedabad**
- Mr. Ashutosh Kumar (2025)
- Ms. Sidhi Tiwari (2026) ongoing
- Mr. Jama Mohamed Adan (2026) ongoing
- Ms. Pooja Kumari (2026) ongoing

Summer Interns:

- Hushna H, IISER, Tirupati, 2023, Akangshya Goswami, C. U. of Punjab, Bhatinda, 2023, Rumanshu Hazarika, BABU, Lucknow 2023, Geethika Rajeevan, IISER, Bhopal 2024, Asthami R, IISER Bhopal 2024, Neeraj Dubey, Madhubanti, Sudarshana Halder, HSG Sagar University, 2025, Arun Singh, IITKGP, 2025, Purusottam Das, Presidency University, 2025, Anshul Dubey, BHU, 2026, Anshuman Panda, IISER, Berhampur

PROFESSIONAL ENGAGEMENTS

- **External Expert, Board of Studies**, Dept. of Earth Sciences, VBS Poorvanchal University, Jaunpur: **2019-2023**
- **Hostel Warden**, Broacha hostel, BHU, Varanasi **2023-2025**
- **Member (Director Nominee), IPRTT Cell**, BHU Varanasi **Since 2023**
- **Member, Warden Council, BHU** **Since 2024**
- **Member, Steering Committee, CDC (Anusandhan Bhawan), BHU** **Since 2025**
- **Administrative warden**, Broacha Hostel, BHU, Varanasi **Since 2025**

Journal reviewer:

Since 2018

- Applied Geochemistry; Arabian Journal of Earth Sciences, Geological Journal; Journal of Earth Science System; Journal of Geological Society of India; Journal of Asian Earth Sciences, Geological Magazine, Geosystems and Geoenvironment, etc.

Professional membership:

- Geological Society of America (GSA);
- Geochemical Society (GS); Life membership ID 171501
- Indian Geological Congress; Life membership ID L40990
- European Geochemical Society, membership ID 736350
- International Association for Geoscience Diversity, Life member
- Geological Society of India, Life fellow and life member F-3598 (L-2053)

Administrative responsibilities:

- Joint Organizing Secretary, PRL Alumni Association, Ahmedabad **Since 2018**
- Member of the admission committee UG/PG at BHU, India **Since 2018**
- Member of syllabus upgrade committee, Institute of Science, BHU **Since 2018**
- Member of the timetable committee, Institute of Science, BHU **Since 2018**
- Served as a Scientific expert committee, ICEGF, Sri Lanka **2020**
- Joint Organizing Secretary: Advances of Mantle Petrology conference, BHU **2018**
- Jury member of Annual Science Youth Fest Akansha, Institute of science, BHU **Since 2018**
- Incharge of Volcanology Laboratory, Dept. of Geology, BHU **Since 2019**
- Co-incharge of Geochemistry Laboratory, Dept. of Geology, BHU **Since 2019**
- Co-incharge of Thin section Laboratory, Dept. of Geology, BHU **Since 2019**
- Member of Research Plan committee, Dept. Of Geology BHU **Since 2019**
- Member of committee constituted by BHU, for preparation of specification of XRF instrument **2019**
- Member of Geology Day Committee, Dept. of Geology, BHU **2019**
- Co-Convenor: Recent trend in Earth Science Research conference, BHU **2019**
- Convener, Workshop on Isotope in Earth Sciences: Basics to applications **2024**
- Organizing Secretary : Geology Day 2024 **2024**
- Convener: National Workshop on Rare elements, Rare Metals and Strategic Minerals (REMS) **2024**
- Co-Convenor: National workshop on Advanced Remote Sensing for Earth Observation (ARSEO) **2025**
- Member of Akansha and Spandan Committee **2025**
- Member of warden council, BHU **2025**
- Member of the steering Committee, CDC, BHU **Since 2025**
- Administrative Warden, Broacha Hostel, BHU **Since 2025**
- Organizing Secretary, Geology Day 2025, BHU **2025**

- Convener, Workshop on Current Trends in Earth & Planetary Sciences: An Interdisciplinary Perspective, BHU 2025
- Organizing Secretary workshop on Intellectual Property Rights protection and faculty entrepreneurship, BHU 2026
- Member, Local organizing committee European workshop on Laser Ablation, Milan, Italy 2026
- Organizing Secretary, National Conference on Advances in Earth and Environmental Sciences: Challenges and Opportunities, BHU, Varanasi 2026

National and International Collaboration

I have had the opportunity to work at different institutes and organizations during my research career, which has resulted in several collaborative publications:

- **University Of Milan (Italy):** Engaged in collaboration with Prof. Francesca Forni, Prof. Federico Farina, Prof Massimo Tiepolo and Prof. Enrico Cannao working on Ladakh and Karakoram batholiths and ophiolite suites of Ladakh
- **University of Petras (Greece):** engaged in collaboration with Prof. Petros Koutsovitis, Assistant Professor, working on Rodingite formation in ophiolite suites
- **Instituto Potosino de Investigación Científica y Tecnológica A.C., San Luis Potosí (México):** planned for collaborative work in the Baster cratón with Prof. Sanjeet K. Verma, a geochemist and petrologist.
- **IIT Bombay, Mumbai (India):** working with Prof Hetu Sheth on Deccan Volcanism India (In collaboration)
- **PRL, Ahmedabad:** completed my doctoral thesis on Barren Island and Mud volcano of Andaman subduction Zone under the supervision of Prof. J.S. Ray, and am presently engaged in collaborative work in the Andaman Subduction zone.
- **Pondicherry University, Puducherry:** collaboration research work with Prof. Rajnish Bhutani and Dr. Janisar M. Sheikh on Ladakh and Karakorum Batholith
- **Hari Singh Gaur Vishwavidyalaya, Sagar:** engaged in collaboration with Dr. V.P. Malviya, Mineralogist on mafic and ultramafic complexes of Ladakh Ophiolite

Invited Lectures/Talks

- Exploring the Earth using Isotopes Under Bhusamvad, Geological Survey of India, Patna, 08.03.2019
- Mining the Future: The Role of Rare Earth Elements in Global Development, IIT Gandhinagar, 25/09/2024 (virtual mode)
- The Technology Metals: Where in the world are all the rare earths? IIT Bombay, 14/01/2026, as a Guest Speaker in an international seminar on Crustal Evolution and Metallogeny.
- Understanding Earthquakes: Causes, Effects and safety, Government Engineering College, Baxur, 28.01.2026 (virtual mode) as an invited Speaker in Earthquake Seminar Week.

Marine expedition (Scientific Cruise)

- Participated in scientific research expedition cruise No. Sk-373 with the objective of sample collection on dragging operation of geological perspective on ORV Sagar Kanya organized by ESSO-National Center for Earth Science Studies, Thiruvananthapuram and Physical Research Laboratory Ahmedabad from 23/09/2021 to 15/10/2021 and collected samples Of Fe-Mg Nodules, Altered basalt, and pumice, etc.

Experimental Skills

- Worked on Continuous Flow Isotope Ratio Mass Spectrometer (Finnigan Delta^{Plus}) interfaced with Elemental Analyzer (Carlo Erba) Via Con Flo III.
- Worked on Dual Inlet Isotope Ratio Mass Spectrometer at PRL Ahmedabad
- Worked on Thermal Ionization Mass Spectrometer and performed Sr, Nd and Pb isotopes
- Established class 1000 clean laboratory at PRL under the supervision of Prof. J. S. Ray, PRL Ahmedabad
- Prepared Lab protocol for Sr, Nd and Pb isotope measurements on TIMS (With low blank) along with dissolution and calibrated column for collection of pure Sr, Nd and Pb
- worked on ICP-MS for trace element analysis
- worked on XRF for major and minor elements analysis
- Core sampling from the Andaman Region and geochemical studies of Barren Island episodic volcanic ashes for establishing the chronology

Geological Field Experiences

- Geological and structural mapping in and around Ajmer, Rajasthan, India, 1998 for one week
- Geological field trip in and around Lansdowne, Siwalik and Lesser Himalaya, Uttarakhand 1999 for one week
- Geological field trip in and around Jabalpur, M.P. 2000 for one week
- Geological field trip in and around Dharmshala, H.P., 2002, India
- Geological field training in and around Jaduguda uranium mine (Jharkhand) and Sukhinda Chromite deposits (Orissa), 2003 for one week
- Geological field excursion to Barren Island Volcano and Andaman Island in 2008 for two weeks
- Geological field excursion to Narcondum and Barren Island Volcano and Andaman Island in 2008 for two weeks

- OCG training for Geologists in different terrains of India for 11 months with objectives of structural mapping, mine visits, and laboratory-based training. (December 2012-November 2013)
- Specialized module for mapping in and around Bhimtal -Nainital-Almora, lesser and Siwalik Himalaya (2013)
- Ministry of Earth Science approved FSP in and around Uttar Kashi area, Uttarakhand in 2013 to 2014
- Ministry of Earth Science approved FSP in and around the Ladakh area from 2014 to 2015
- Ministry of Earth Science approved FSP in and around Mahendragarh, Haryana area from 2016 to 17
- Ministry of Earth Science approved FSP in and around the Bundelkhand area in 2017
- Fieldwork in and around the Ladakh area for 40 days from 2019 to 2020
- Fieldwork in and around Saurashtra area from 2020 to 2022 for 40 days
- Fieldwork in and around Finero mafic-ultramafic complex in May 2026
- Fieldwork in and around Aeolian volcanic Island, Italy for 7 days in June 2026
- Fieldwork in and around southern part of the Adamello, Italian Alps, Italy for 5 days in June 2026
- Fieldwork in and around The Lago di Cignana oceanic crust and UHP metamorphism Unit, Western Alps, Italy, July 2026

Refresher Course/Training/Workshops/Internship

- Marie Curie EURISPET Seminar on Petrology of the Lithosphere in External setting, Budapest (Hungary), from 21.08.2008 to 31.08.2008.
- Course on Exploration strategy for REE and rare Metals, Geological Survey of India, Hyderabad from 21.11.2014 to 04.12.2014
- Training on Ground Penetration Radar (GPR): theory and Practices, Geological Survey of India, Lucknow from 05.01.2015 to 09.01.2015
- Course on Effective writing, communication and presentation skills, Geological Survey of India, Lucknow from 25.01.2016 to 29.01.2016
- Training Program on Administration, Finance, and vigilance for JTS/STS Officers from 22.05.2017 to 27.05.2017 from Jaipuria Institute of Management, Lucknow
- Promotion linked training for Geologists, Geological Survey of India, Lucknow from 30.10.2017 to 10.11.2017
- Participated on the 84th Orientation course conducted by UGC Human Resource Development Centre, BHU from 25.01.2020 to 14.02.2020
- Attended the PRL summer internship program 2018 under the mentorship of Prof. J.S. Ray from 28.05.2018 to 02.07.2018.
- Participated Online Faculty Development Program on, Earth & Environment Responses during COVID-19 from 11.07.2020 to 17.07.2020
- Participated in e-training on “Fundamentals of Diamond and precious stone exploration” conducted by NCMT, GSITI, Hyderabad from 14.09.2020 to 16.09.2020
- Participated in “Refresher Course on Characterization of Shear Zone” conducted over e-Platform by RTD, ER, Kolkata from 25.09.2020 to 30.09.2020.
- Participated in GEOCHRON- An Online Lecture Series on various aspects of Geology, organized by the Geological Institute, Department of Geology, Presidency University, Kolkata, from 22.08.2020 to 27.09.2020
- Participated e-Training on “Transect Mapping in the Nagaland-Manipur Ophiolite Belt” conducted by RTD, NER, GSITI, Shillong from 05.10.2020 to 09.10.2020
- Attended 10th Refresher Course in Environmental Studies [Multidisciplinary] organized virtually by the UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi, from 10.02.2021 to 23.01.2021.
- Participated in a Refresher course on Gold Exploration conducted by NCMT, GSITI, FTC, Kulu from August 07 to August 12, 2023.
- Participated in A five-day Management Development Program on “Nurturing Future Leadership” under the aegis of MMTTP, Ministry of Education, Govt. at IIM Shillong, India, 24th – 28th June 2024.
- Participated in course Boron Isotopes: understanding boron geochemistry and its application as a pH and CO₂ proxy " organized by the "Ardito Desio" Department of Earth Sciences of the University of Milan, Italy 20nd to 22nd April 2026
- Participated in workshop "Mining Forward: Exploration, Innovation and Society" organized by the "Ardito Desio" Department of Earth Sciences of the University of Milan, Italy 02nd – 03rd July 2026

Publications: (In reputed SCI Journals)

- Singh A K, Chaurasia A K*, Bishwapriya A, Kumar S, Dagar S, Raza A, Utkarsh, Singh A, **Kumar Alok***: Tectono-geomorphic Records of Neo-tectonic Deformation and Fault reactivation along the Munger–Saharsa Ridge Fault, Eastern India, Jour. Of Asian Earth Science, 2026, <https://doi.org/10.1016/j.jseaes.2026.107351>, IF: 2.4
- Patel S, Joshi M, **Kumar Alok***, Das B, Singh A, Singh A: Petrogenesis and Tectonic Significance of the Paleoproterozoic Ramgarh Mylonitic Granitoids in the Baijnath Klippe, Kumaun Himalaya: Evidence for Active Continental Margin during Columbia Supercontinent Assembly." **Island Arc**, 2026 wiley, IAR70047, doi.DOI: 10.1111/iar.70047, IF 1.3

- Joshi M, Das B, Patel S, Galan D P, Pant N C, Singh A K, Oinam G, **Kumar Alok**, Kumar A: A ~1.6 Ga Accretionary Event in the Polymetamorphic Lesser Himalaya, India: Insights into Late-Stage Assembly of the Columbia, **Precambrian Research**, Elsevier, 435, 2026 doi. <https://doi.org/10.1016/j.precamres.2026.108038>, **IF 3.2**
- Rai A., Behra S, **Kumar Alok**, Malviya V.P.: R-mode factor analysis of stream sediment geochemical data: A multivariate statistical approach for critical mineral exploration in the Bundelkhand Craton, India, **Geosystems and Geoenvironment**, 2026, vol. 5, issue 2, <https://doi.org/10.1016/j.geogeo.2026.100496>, **Cite Score 9.2**
- Sheth H., Nayak A., Sheikh J. **Kumar Alok**: Interflow and intraflow bores, and potential pitfalls in bore-based geology and stratigraphy of continental flood basalts, **Journal of Volcanology and Geothermal Research** 2025, doi:<https://doi.org/10.1016/j.jvolgeores.2025.108460> **IF 2.9**
- George B., Ray JS, Mahala M, Dev A, Tomson J, Haripriya J, **Kumar Alok**: Geochronology of the Vindhyan Supergroup: implications for the closure of Proterozoic basins of India, **Precambrian Research**, Vol. 422 (2025), 107790, <https://doi.org/10.1016/j.precamres.2025.107790> **IF 3.8**
- Joshi M, Patel S, Oinam G, Das B, Srivastava T, **Kumar Alok**: P-T evolution of Paleoproterozoic Dangoli Pelitic gneisses, Bajjnath Klippe, NW Himalaya: insights from the geochemistry and zircon U-Pb geochronology, **DOI: 10.1111/iar.70008, Island Arc**, 2025 **I.F. 1.3**
- Patel S, Joshi M, Oinam G, Das B, **Kumar Alok**, Srivastava T: Magmatic evolution of the Paleoproterozoic A2-type granite along the northern Indian margin: insights from geochemistry and U-Pb geochronology of Bajjnath Klippe, NW Himalaya, **Geological Magazine**, 2024, volume 162(e5): 1–16. <https://doi.org/10.1017/S0016756824000530>, 2025 **IF 2.3**
- Naik A., Sheth H., **Kumar Alok**, Sheikh J.: The physical volcanology of large-scale effusive and explosive silicic eruptions in southeastern Saurashtra, Deccan Traps, **Geological Magazine**, 2023, **IF 2.3**
- Dutta A, Mishra P, Absar A, Malviya V P, Singh P K, Srivastava A, Ray B, **Kumar Alok ***, Nitnaware N.V.: 2023 Tracing hydrothermal mineral thenardite in geysers/hot springs of North-western Himalayan belt, Ladakh Geothermal Province, India by hydrogeochemistry, fluid-mineral equilibria and isotopic studies, **Geochemistry**, 2023 <https://doi.org/10.1016/j.chemer.2023.125973>, **IF 4.127**
- Patel N., Trivedi P., Agnihotri R., Rai N., Sathe V., Khonde N, Bhushan R., Jena P. S., Shivam A, **Kumar Alok**: New Chronology for Megalithic Burial in Vidarbha (central India): Insights into contemporary hydroclimate and food habit, **Radiocarbon**, 2022 DOI: 10.1017/RDC.2022.47, **IF 6.234**
- Sheth H., Nayak A., Sheikh J. **Kumar Alok**: 30 km-diameter silicic caldera of K/Pg boundary age in the northwestern Deccan Traps: The Alech Hills, Saurashtra, **International Journal of Earth Sciences** 2022, 111 (1), 379-399 **IF- 2.7**
- **Kumar Alok**, Ray J.S., Binusarma P.E., Awasthi, N., George B., Yadava M, Bhutani R., Balakrishnan S., Pande K.: Origin of breccia in mud volcanoes of the Andaman accretionary prism: Implications for forearc processes, **Chemical Geology**, 2021, 586(2), 1-13, 0009-2541(2021) **IF- 4.68**
- **Kumar Alok**, Sheth H., Barman P, Ibrahim M. Volcanic facies as a guide to the palaeodepth and palaeo-tectonic setting of ancient oceanic crust: the case of the Nidar ophiolite, Ladakh, Indian Trans-Himalaya, **Bulletin of Volcanology**, 2021, 83(5), 1-14, 0258-8900(2021) **IF -2.9**
- Naik A., Sheth H., Sheikh J. **Kumar Alok**: Extremely high-grade, lava-like rhyolitic ignimbrites at Osham Hill, Saurashtra, northwestern Deccan Traps: Stratigraphy, structures, textures, and physical volcanology, **Journal of Volcanology and Geothermal Research** 2021, 419, 1-14, 0377-0273(2021) **IF- 2.9**
- Agnihotri R. Patel N., Srivastava P, **A. Kumar and others**: A new chronology based on OSL and radiocarbon dating for the archaeological settlements of Vadnagar (western India) along with magnetic and isotopic imprints of cultural sediments. **Journal of Archaeological Science: Reports**, 2021, 38(31), 1-14, **IF 1.5**
- Ray J.S., **Kumar Alok** and others Origin of gases and water in mud volcanoes of Andaman accretionary prism: implications for fluid migration in forearcs, 2013, 347, 102-113, **Chemical Geology IF: 4.68**
- Ray J. S., Pande K., Bhutani R., Shukla A.D., Rai V. K., **Kumar Alok**, Awasthi N., Smitha R.S., Panda D.K.: Age and geochemistry of Newania dolomites and carbonatites India: implications for source of primary carbonatite magma, **Contributions to Mineralogy and Petrology**, 2013, 166(6), 1613-1632, **I.F.- 4.1**
- Sheth H, Ray J.S., **Kumar Alok**, Bhutani R., Awasthi N.: Toothpaste lava from Barren Island Volcano (Andaman Sea), **Journal of Volcanological and Geothermal Research**, 202, 73-82, 2011 **I.F. 2.9**
- Awasthi N., Ray J. S., Laskar A.H., **Kumar Alok**, Sudhakar M., Bhutani R., Sheth H. & Yadava M.: Major ash eruptions of Barren Island volcano (Andaman Sea) during the past 72 kyr: clues from a sediment core record, **Bulletin of Volcanology**, 72: 1131-1136, 2010 **I.F. 2.9**
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