

FACULTY PROFILE: Prof. ATHOKPAM K. SINGH

Name	Dr. Athokpam Krishnakanta Singh	
Designation	Professor	
Department	Applied Geology	
School	School of Engineering & Technology	
Date of holding Present Post	07-11-2023	
	E-mail : aksingh_wihg@rediffmail.com : aksingh_wihg@dhsgsu.edu.in Mobile: (91) 09412054678 (M) : (91) 06395239254 (M) Department https://dhsgsu.edu.in/index.php/en/departments01/applied-geology Website: https://dhsgsu.edu.in University Website: https://dhsgsu.edu.in	Contact Address: Department of Applied Geology Dr. Harisingh Gour University Sagar - 470003, Madhya Pradesh (INDIA)

Researchgate: https://www.researchgate.net/profile/A_Krishnakanta_Singh (22 h-index)

Google Scholar: <https://scholar.google.com/citations?user=qFKf5yQAAAAJ&hl=en>

EDUCATIONAL QUALIFICATIONS (UG ONWARDS):

PDF (The Open University, England): 2011

Topic: Geochemical and geochronological studies of magmatic rocks from eastern Himalaya and Ophiolites of northeast India

Ph.D. (Kurukshetra University, Haryana) 2002:

Topic: Petrology and geochemistry of the granites and associated acid volcanic rocks around Kundal area, Barmer District, Rajasthan, India: Petrogenesis and Rare Metal Mineralization Potential

M.Sc. Applied Geology, 1997: Department of Geology, Kurukshetra University, Haryana

B.Sc. Geology (Hons.) 1994: D. M. College of Science, Imphal (Manipur University, Manipur)

FIELD OF SPECIALIZATION AND RESEARCH INTEREST

Igneous Petrology, Geochemistry, Geochronology, Mineralization and Himalayan Tectonics:

My current research interests include: Understanding the geodynamic evolution of both crust and lithospheric mantle during continental collision, subduction, and obduction processes using proxies like whole-rock geochemistry, mineral chemistry, isotopic signatures, and U-Pb geochronology, etc. Study the characteristics of Ni-Cu-PGE in chromite and mantle peridotites to establish the role of partial melting/fractionation processes, geotectonic setting, and the chemical-physical conditions prevailing in the mantle during ophiolite formation. I also enjoy tweaking inductively coupled plasma mass spectrometers (ICP-MS).

PROFESSIONAL CAREER PROFILE:

Wadia Institute of Himalayan Geology (WIHG), Dehradun
Dr. Harisingh Gour University (DHSU), Sagar

Professor, Department of Applied Geology, Dr. Harisingh Gour University, Sagar, India
(Nov 2023 – continue)

Scientist - F, Wadia Institute of Himalayan Geology, Dehradun, India (2022 – 2023)
(Merit Promotion)

Scientist - E, Wadia Institute of Himalayan Geology, Dehradun, India (2017-2022)

Scientist - D, Wadia Institute of Himalayan Geology, Dehradun, India (2013-2017)

Scientist - C, Wadia Institute of Himalayan Geology, Dehradun, India (2007-2013)

Scientist - B, Wadia Institute of Himalayan Geology, Dehradun, India (2002-2007)

SCHOLARSHIPS/AWARDS:

- Awarded “BOYSCAST Fellowship” 2010-11 for post-doctoral research work (one year) in the Open University, Milton Keynes, United Kingdom (UK) by the Department of Science & Technology, Govt. of India, New Delhi.
- Awarded Senior Research Fellowship (CSIR-SRF) by the Council of Scientific & Industrial Research, Govt. of India in 2001-02.
- Awarded University Research Scholarship (URS) by the Kurukshetra University, Kurukshetra in 1998-99 for Doctoral research work.
- Nominated and sponsored by the Department of Science & Technology, Govt. of India, New Delhi, to participate in the exposure visit of Indian Scientists to China from 16 to 24 August 2014.
- Selected by the DST, Govt. of India, New Delhi for presentation of research highlights in the Young Scientist Contest held at VIT University, Vellore in 2008.
- Received FT Young Scientist Project (without JRF) funded by the Department of Science & Technology, Govt. of India (2003).

- Received FT Young Scientist Project (with JRF) funded by the Department of Science & Technology, Govt. of India (2010).
- “Best Poster Presentation Award” in the International Seminar on Magmatism, Tectonism and Mineralisation (MTM-2014) held from 27-29 March, 2014 organized by Kumaun University, Nainital for the poster entitled “Petrogenesis and tectonic-magmatic implication of mafic volcanic rocks from the Manipur ophiolitic mélange zone, northeast India” authored by S.K. Singh and A.K. Singh.
- “Best Oral Presentation Award” for the paper entitled “Forearc magmatism near the eastern flank of the Indian plate: Evidence from geochemistry of mafic intrusive rocks of the central part of Nagaland-Manipur Ophiolite, Northeast India” authored by S. K. Singh and A.K. Singh in the National Geo-Research Scholar Meet (NGEOSM-2016) held from 1-4 June, 2016 at Wadia Institute of Himalayan Geology.

SUPERVISION / GUIDANCE TO PH.D. STUDENTS / PDF / RA:

- Ten (10) Ph.D. students supervised: Registered and awarded by different Universities/Institutes (Banaras Hindu University, Varanasi; Indian Institute of Technology, Roorkee; Kumaon University, Nainital; Kurukshetra University, Kurukshetra, Manipur University, Imphal)
- Three (4) Ph.D. students supervising.
- Two (2) PDF/RA mentored.
- Twenty (25) M.Sc./M. Tech. dissertation mentored.

ACADEMIC VISITS TO ABROAD:

- **USA** - San Francisco: To present research achievement during the 25th HKT workshop, June 2010 held at the San Francisco University
- **UK** - The Open University, Milton Keynes for post-doctoral research work (from Sept 2011 to August'2012) under “BOYSCAST Fellowship” awarded by the Department of Science & Technology, Govt. of India.
- **China** - Beijing, Shanghai Hong Kong: Under the DST, Govt. of India sponsored Exposure visit of Indian Scientists to China (16th - 23th August, 2014)
- **Taiwan** - Taipei: Academic visit to National Taiwan University (NTU) and Academia Sinica, Taipei (during Oct. to Nov, 2015)
- **USA** – Hawaii: To present research outcome during 15th Annual Meeting of AOGS, 03-08, June held at Honolulu, Hawaii
- **Oman** – Muscat: To present research achievement during the International Conference on Ophiolite and Oceanic Lithosphere held at the Sultan Qaboos University Muscat, Oman, January 12-14, 2020
- **Myanmar** – Short field visit neighboring to India – 2010, 2012, 2015, 2017, 2000

RESEARCH PROJECT: Completed/Ongoing/Approved

Project Title	PI or Co-PI	Duration/Status	Name of Sponsoring Funding Agency
Petromineralogical and geochemical characterization of the Ophiolitic Suite in Manipur, North Eastern India	Principal Investigator	36 months Completed (02-11-2008)	Dept. of Science & Technology (DST), Govt. of India, New Delhi
Investigating along-strike changes in collision and exhumation tectonics across the eastern Himalaya	Co-Principal Investigator	6 months Completed 2012	NERC Isotope Geosciences Laboratories (NIGL), United Kingdom
Mineralization and Petrogenesis of Mantle sequence and Cumulates of the Manipur Ophiolite Complex, Indo-Myanmar Orogenic Belt, NE India	Principal Investigator	36 months Completed (31-10-2015)	Dept. of Science & Technology (DST), Govt. of India, New Delhi
Geochemistry and Geochronology of the Tethyan ophiolites of the Indo-Myanmar Orogenic Belt, Northeast India: Geodynamic and petrogenetic implications and mineralization	Principal Investigator	36 months Completed (10-05-2023)	Ministry of Earth Sciences (MoES), Govt. of India, New Delhi
Evaluating condition of deformation during subduction and exhumation of the north Indian continental margin: A study based on structure and crystallographic features of the Tso Moriri Dome of trans-Himalaya, Ladakh, India	Co-Principal Investigator	36 months Completed (31-03-2023)	Ministry of Earth Sciences (MoES), Govt. of India, New Delhi
Age, Origin, and Emplacement of the Eastern Himalayan Ophiolites, Northeast India: constraints from Platinum group elements geochemistry and isotopic signatures	Principal Investigator	36 months Ongoing (04-01-2024)	SERB-Dept. of Science & Technology (DST), Govt. of India, New Delhi

LABORATORY RESPONSIBILITIES at WIHG & DHSGU

- Overall In-charge (Labs) to look after all Labs of WIHG, Dehradun w.e.f. 08-12-05-2022 till 06-11-2023.
- Officer In-charge to look after the ICP-MS Lab (wet chemical Lab), WIHG, Dehradun from 12-05 till 06-11-2023. Actively involved in instrument handling of ICP-MS, generating data for many users of WIHG and outside users from various Institutes/Universities.
- Officer In-charge to look after the XRF Lab, WIHG, Dehradun from 28-07-2015 till 06-11-2023.
- Being one of the Indentors of the LA-MC-ICP-MS instrument that was procured in 2014, I took responsibility as a Core group member for the establishment of the Geochronology Lab. at WIHG, Dehradun. Actively involved as Indentor for recently procured TQ-ICP-MS for WIHG, Dehradun (March, 2023).
- Co-Incharge of ICPMS Lab, Center for Advance Research, DHSGU

ADMINISTRATIVE/ACADEMIC RESPONSIBILITIES at WIHG & DHSGU

1. Activity In-charge (1A) – CAP – Himalaya Institute Research Project since 07-07-2021 till 06-11-2023.
2. Chairman of the Technical Committee for AMC/CAMC for the overall assessment and evaluation of proposal (News or renewal), including price justification and recommendation since 03/09/2019, till 06-11-2023.
3. Chairman, Library Advisory Committee of WIHG from 14.03.2022 till 06-11-2023.
4. Chairman, Core Committee for regular Assessment and Interaction with JRF/SRF/RA of WIHG from 01.05.2023 till 06-11-2023.
5. Member, Collegium of APAR of the Scientists (B and E levels) of WIHG till 06-11-2023.
6. Nodal Officer (DHSGU), Indian Universities and Institutions Network for Disaster Ricks Reduction Established by National Institute of Disaster Management, New Delhi

TEACHING/THESIS EXAMINER/Question SETTER

- I was serving as Professor (Honorary) of the Academy of Scientific and Innovative Research (AcSIR) for teaching Ph.D. students.
- Ph.D. Thesis Examiner/Evaluator of many Universities (from time to time)
- Questions setter for B.Sc. and M.Sc. Geology was prepared for many Universities (from time to time).

EDITORIAL RESPONSIBILITIES

Associate Editor – Geological Journal (Wiley) 2022 - continuing

Associate Editor – Indian Journal of Geoscience (published by Geol. Surv. India) 2020-22

Lead Guest Editor - Two special issues of Geological Journal (Geodynamic evolution of Eastern Himalaya and Indo-Myanmar orogenic belts: Advances through interdisciplinary studies (2022)

Reviewer: Reviewed many research papers submitted by other geoscientists across the globe to Journals like Scientific Reports, Journal of Petrology, Tectonophysics, Geoscience Frontier, Lithos, Geological Magazine, International Geology Review, Journal of Asian Earth Sciences, Geochemistry, Geological Journals, Current Science, Journal of Geological Society of India, etc. from time to time..

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- ❖ Life Fellow, Geological Society of India, Bangalore, India
- ❖ Life Member, Indian Science Congress Association, Kolkata, India
- ❖ Life Member, Indian Society of Applied Geochemists, Hyderabad, India
- ❖ Life Member of the Indian Geological Congress, Roorkee, India
- ❖ Life Member of the Himalayan Geology, Dehradun, India
- ❖ Life Member, Administrative Staff College of India, Hyderabad

RESEARCH PAPER PUBLICATION IN PEER-REVIEWED JOURNALS

Research papers were published in reputed journals (e.g. *Lithos*, *Gondwana Research*, *Geoscience Frontier*, *Contributions to Mineralogy and Petrology*, *Geological Magazine*, *Journal of Geological Society London*, *Minerals*, *Journal of Asian Earth Sciences*, *Geochemistry*, *Geological Journals* etc.). My works are well-cited in various reputed journals like *Nature Geoscience*, *Earth Science Reviews*, *American Journal of Science*, *GSA Bulletin*, *Earth and Planetary Science Letters*, *Contributions to Mineralogy and Petrology*, *Gondwana Research*, *Chemical Geology*, *Lithos*, *Precambrian Research*, *Geological Magazine* etc.).

LIST OF SELECTED RESEARCH PAPERS:

Sl.No.	Title of the Paper	Authors* indicates First / Corresponding	Name of the Journal/ISSN No.	Volume and PageNo/ DOI/Year
94	Provenance, Paleoweathering and Paleotectonics of Cobalt Bearing Metasedimentary Rocks of the Delhi Supergroup, North Delhi Fold Belt, NW India.	Rana, S., Kumar, N. & Singh, A.K.	Geochemical International/ 0016-7029	https://doi.org/10.1134/S0016702924600913 (2025)
93	Magma heterogeneity in the generation of ophiolitic mafic rocks on the eastern flank of the Indian plate	Imtisunep, S., Singh, A.K. , Chaubey, M., Singh, R.K., Longchar, B., Khogenkumar, S., Dutt, A.	Acta Geochimica/ 2365-7499	https://doi.org/10.1007/s11631-024-00755-6 (2025)
92	Tectonic evolution of the Greater Himalayan Sequence and its associated fault systems in space and time: A monazite perspective	Hussain, M.D., Phukon, P., Kalita, P., Singh, A.K. , Kumar, D., Saikia, H.	International Geology Review/ 1938-2839	https://doi.org/10.1080/00206814.2024.2425988 (2024/)
91	Formation of the associating high-Al and high Cr chromitites in the Nagaland-Manipur Ophiolites in northeast India	Chaubey, M., Singh, A.K. , Imtisunep, S., Uysal, I., Singh, B.P., Satyanarayanan, M., Longchar, B., Khogenkumar, S.	International Geology Review/ 1938-2839	https://doi.org/10.1080/00206814.2024.2386565 (2024)
90	Origin, evolution, and emplacement of the Nagaland-Manipur Ophiolites, Indo-Myanmar Orogenic Belt, Northeast India	Singh, A.K. , Ao, A.	Proceedings of the Indian National Science Academy/ 03700046	https://doi.org/10.1007/s43538-024-00353-3 (2024)
89	Geochemistry of Mafic Rocks From the Nagrota– Kathindi Section, Himachal Pradesh, Northwestern Himalaya: A Probable Example of Plume–Lithosphere Interaction	Singh, M.R., Singh, P. Sethy, P.C. Singh, A.K.	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.5058 (2024)

88	The Kerguelen Mantle plume activity in Sylhet Trap mafic rocks of Southern Shillong Plateau, NE India: Implications for its role in magmatism of eastern India	Kumar, M., Singh, A.K.* , Bikramaditya, R.K., Singh, N.S., Imtisunep, S.	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.5013 (2024)
87	Plagioclase ultraphyric basalts of the Abornmagmatic complex: Implications for a plumbing system at the eastern Himalaya	Oinam, G, Singh, A.K.* , Santosh, M., Joshi, M., Dut, A. Khogenkumar, S., Da, B.P., Bikramaditya, R.K.	Lithos /0024-4937	https://doi.org/10.1016/j.lithos.2024.107647 v.480–481 107647 (2024)
86	A hydrous sub-arc mantle domain within the northeastern Neo-Tethyan ophiolites: Insights from cumulate hornblende	Dutt, A., Shukla, A.D., Singh, A.K. , Narayanan, A.	Geochemistry 0009-2819	https://doi.org/10.1016/j.chemer.2024.126122 v.126122 (2024)
85	Tectonic evolution of the neoproterozoic tusham ring complex, Northwestern India: Constraints from geochemistry and zircon U–Pb geochronology, and implications for Rodinia supercontinent history	Singh, A.K.* , Kumar, N., Chung, S.L., Lee, H.Y., Santosh, M., Sharma, R., Kumar, N., Bikramaditya, R.K., Oinam, G., Lakhan, N.	Lithos/ 0024-4937	Doi.org/10.1016/j.lithos.2023.107022 v.440–441 107022 (2023)
84	Origin and Tectonic Implications of I-type Granites, North Delhi Fold Belt, NW, India: Insights from Whole Rock Geochemistry and Mineral Compositions	Kanyan, N.K., Kumar, N., Rana, S., Kumar, N., Singh, A.K.	Jour. Geol. Soc. India/ 0016-7622	doi.org/10.1007/s12594-023-2521-8 v.99, 1641-1658 (2023)
83	Neoproterozoic Felsic Volcano-plutonic Rocks, Tusham Ring Complex, Malani Igneous Suite, NW Indian Shield: Petrogenetic Modeling, Magmatic Source and Geodynamic Evolution	Kumar, N., Kumara, N., Singh, A.K.	Geochemistry International/ 0016-7029	https://doi.org/10.1134/S0016702923040080 v.61, 410-435 (2023)
82	Petrogenesis and tectonic implications of the Late Cretaceous to Paleogene calc-alkaline volcanic rocks, Ladakh Himalaya	Singh, N.L., Akhtar, S., Singh, A.K.* , Singh, B.P., Saikia, A., Jeelani, S.M.	Journal of Asian Earth Sciences/ 1367-9120	https://doi.org/10.1016/j.jseaes.2023.105700 v.253, 105700 (2023)

81	High concentration of cobalt in the Ajabgarh rocks of Delhi Supergroup, Southwest Haryana, India	Kumar, N., Rana, S., Singh, A.K.	Current Sciences/ 0011-3891	https://www.currentscience.ac.in/Volumes/125/04/0428.pdf v.125, 1-9 (2023)
80	Genesis of peridotite-hosted podiform chromite ore and associated PGE, southern Manipur Ophiolite Complex, northeast India	Premi, K., Sen, A.K., Singh, A.K. , Singh , W.I., Chaubey, M.	Periodico di Mineralogia/ 0369-8963	Doi: 10.13133/2239-1002/17854 v. 197/3, 209-232 (2023)
79	Magmatic records of Gondwana assembly and break-up in the Eastern Himalayan syntaxis, Northeast India.	Oinam, G., Singh, A. K. ,* Dutt, A., Khogenkumar, S., Joshi, M., Singhal, S., Bikramaditya, R.K.	Gondwana Research/ 1342-937X	https://doi.org/10.1016/j.gr.2022.09.009 v.1-20, 126–146 (2023)
78	Geochemistry and U-Pb zircon geochronology of the Jutogh Thrust sheet, Himachal Pradesh, NW-Himalaya: Implications to the petrogenesis and regional tectonic setting	Singh, P. Sethy, P.C., Singh, A.K. , Singhal, S., Maurya, A.K., Giri, S.R.,	Geological Journal/ 1099-1034	Doi: 10.1002/gj.4583 v.58(1), 131-149 (2023)
77	Temporal and Spatial Relationship between the Indian Plate Tectonics and Magmatism in the Eastern Himalaya	Singh, A. K.*	Journal of Geological Congress/ 2229-435X	v.14(1-2), 1-21 (2022)
76	Neoproterozoic Felsic Volcano-plutonic Rocks, Tusham Ring Complex, Malani Igneous Suite, NW Indian Shield: Petrogenetic Modeling, Magmatic Source and Geodynamic Evolution	Kumar, N., Kumar, N., Singh, A.K.	Geochemistry International/ 0016-7029	DOI: 10.1134/S0016702923040080 (2022)
75	INTRODUCTION, PART-1 - Geodynamic evolution of Eastern Himalayan and Indo-Myanmar orogenic belts: Advances through interdisciplinary studies	Singh, A.K.* , Chung, S.L., Somerville, I.D.	Geological Journal/ 1099-1034	DOI: https://doi.org/10.1002/gj.4396 v.57(2), 476–481 (2022)
74	Petrogenesis of mantle peridotites in Neo-Tethyan ophiolites from the Eastern Himalaya and Indo-Myanmar Orogenic Belt in the geo-tectonic framework of Southeast Asia	Singh, A. K.* , Chung, S.-L., & Somerville, I. D.	Geological Journal/ 1099-1034	Doi: 10.1002/gj.4629 v.57(2), 4886-4919 (2022)

73	Stable isotope geochemistry and microfossil assemblages of carbonate rocks in the ophiolite mélangé zone of the Indo–Myanmar orogenic Belt, NE India: Implications on age and depositional environment	Singh, A. K.,* Guruaribam, V., Singh, Y. R., Singh, N. I., Singh, L. R., Chaubey, M., Tewari, V. C., Singh, W. I., Lakhan, N., Devi, L. D., & Chanu, R. S.	Geological Journal/ 1099-1034	DOI: 10.1002/gj.4550 v.57(2), 5308-5325 (2022)
72	Geochemistry of Late Palaeoproterozoic (1.69 Ga) A-type Mayong granitoids in Shillong Plateau, north-east India: Implication for anorogenic magmatism during Columbia Supercontinent cycle	Doley, D., Bhagabaty, B., Sarma, G., Singh, A.K. , Zou, X.	Geological Journal /1099-1034	DOI: 10.1002/gj.4303 v.57(2), 662-680 (2022)
71	New constraints on the tectono-magmatic evolution of the Tidding-Mayodia Ophiolites, Eastern Himalaya, northeast India	Singh, A.K.,* Dutt, A., Nayak, b., Bikramaditya, R.K. Oinam, G., Thakur, S.S., Srivastava, R.K., Khogenkumar, S., Kumar, M.	Geological Journal/ 1099-1034	DOI: 10.1002/gj.4332 v.57(2), 514-536 (2022)
70	Evidence of intraplate magmatism and subduction magmatism during the formation of Nagaland– Manipur ophiolites, Indo– Myanmar Orogenic Belt, northeast India	Imtisunep, S., Singh, A.K.,* Bikramaditya, R.K., Khogenkumar, S., Chaubey, M., Kumar, N.	Geological Journal /1099-1034	DOI: 10.1002/gj.4332 v.57(2), 782–800. (2022)
69	INTRODUCTION, PART-I - Geodynamic evolution of Eastern Himalayan and Indo–Myanmar orogenic belts: Advances through interdisciplinary studies	Singh, A.K.,* Chung, S.L., Somerville, I.D.	Geological Journal /1099-1034	DOI: 10.1002/gj.4396 v.57(2), 476–481 (2022)
68	Geochemical characteristics and petrogenesis of magmatic rocks of the Shyok suture zone, NW Himalaya, India	Lakhan, N. Singh, A.K. , Singh, BP. , Salim, A.	Arabian Journal of Geosciences/ 1866-7511	https://doi.org/10.1007/s12517-021-09361-9 v. 15:223, (2022)
67	Significance of aegirine-bearing metabasic rocks in the metamorphic evolution of the Nagaland Accretionary Prism, northeast India	Ghose, N.C., Singh, A.K. , Dutt, A., Imtisunep, S.	Geological Journal /1099-1034	DOI: 10.1002/gj.4317 v.57(2), 5207-5221 (2022)

66	Zircon U-Pb ages and Hf isotopes of I-type granite from western Arunachal Himalaya, NE India: Implications for the continental arc magmatism in the Paleoproterozoic supercontinent Columbia	Bikramaditya, R.K., Chung, S.L, Singh, A. K. , Lee, H.Y., Lemba, L.	Geological Journal /1099-1034	DOI: 10.1002/gj.4342 v.57(2), 5000-5018 (2022)
65	Refertilization of depleted mantle peridotite in the Nagaland-Manipur ophiolite, northeast India: Constraints from PGE, mineral and whole-rock geochemistry	Chaubey, M., Singh A.K.* , Singh, B.P., Imtisunep, S., Dutt, A., Satyanarayanan, M., Premi, Ksh. Abhirami, S.G.	Geological Journal /1099-1034	DOI: 10.1002/gj.4411 v.57(2), 5265-5283 (2022)
64	Petrogenesis and tectonic environments for formation of peridotites and associated podiform chromite ore, southern part of Manipur Ophiolite Belt, Indo-Myanmar Orogenic Belt, NE India	Premi, Ksh., Sen, A.K., Singh. A.K. Lakhan, N.	Journal of Mineralogy and Geochemistry/ 0077-7757	DOI: 10.1127/njma/2021/0255 v.197/3, 209-232 (2022)
63	Geological Field Observations Along the Pandoh Syncline: The Mandi-Kataula-Bajura Section of Himachal Pradesh, NW-India	Singh, P., Sethy, P.C., Rastogi, H., Singh, M.R., Singh, A.K. , Thakur, S.S., Singhal, S	In: Structural Geology and Tectonics Field Guidebook— Volume 2, pp 179–201	https://doi.org/10.1007/978-3-031-19576-1_4 . ISBN 978-3-030-60143-0 (eBook) (2022)
62	Subduction versus non-subduction origin of Nagaland-Manipur ophiolites along Indo-Myanmar orogenic belt, northeast India: fact and fallacy	Khogenkumar, S., Singh, A.K.* , Kumar, S., Lakhan, N., Chaubey, M. Imtisunep, S., Dutt, A., Oinam, G.	Geological Journal/ 1099-1034	DOI: 10.1002/gj.4030 v.56 (4), 1773-1794 (2021)
61	Testing Trace-Element Distribution and the Zr- Based Thermometry of Accessory Rutile from Chromitite	Zaccarini, F., Garuti, G., Luvizotto, G.L., de Melo Portella, Y., Singh, A.K.	Minerals/ 2075-163X	https://doi.org/10.3390/min11070661 v.11(7), 661 (2021)
60	Petrogenesis and tectonic implications of Anorogenic acid plutonic rocks of southwestern Haryana of Northwestern Peninsular India: An understanding approach to	Sharma, R., Kumar, N., Kumar, N., Singh, A.K.	Geochemistry International/ 0016-7029	https://link.springer.com/article/10.1134/S0016702920120034 . v.59, No. 1, pp. 66–91

	reconstruct the Malani Igneous Suite			(2021)
59	Evidence of melt– and fluid–rock interactions in the refractory forearc peridotites and associated mafic intrusives from the Tuting– Tidding ophiolites, eastern Himalaya, India: Petrogenetic and tectonic implications	Dutt, A., Singh, A.K. ,* Srivastava, R.K., Oinam, G	Geological Journal/ 1099-1034	DOI: 10.1002/gj.4043 v.56, 2082–2110 (2021) .
58	Geochemical and metamorphic record of the amphibolites from the Tuting-Tidding Suture Zone ophiolites, Eastern Himalaya, India: Implications for the presence of a dismembered metamorphic sole	Dutt, A., Singh, A.K. , Srivastava, R.K., Oinam, G., Bikramaditya, R.K.	Geological Magazine/ 1469-5081	https://doi.org/10.1017/S0016756820000825 v.158(5), 787–810 (2021)
57	Depositional environment and tectonic backdrop of meta-carbonates in the Eastern Himalayan ophiolites, India: insights from calcite microstructures, whole-rock elements and stable isotopes	Dutt, A., Singh, A.K. ,* Oinam, G., Srivastava, R.K.	Carbonates and Evaporites 0891-2556	https://doi.org/10.1007/s13146-021-00704-x v.36:34(2021) v.36:34(2021)
56	Insights into the petrogenesis of depleted mantle dunite from the central part of the Nagaland– Manipur Ophiolites, North East India	Singh, A.K. ,* Khogenkumar, S., Kumar, S., Singh, L.R., Thakur, S.S.	Current Sciences/ 0011-3891	doi: 10.18520/cs/v120/i8/1381-1388. v.120,8, 1381-1388 (2021)
55	Geochemical characteristics of fluorine- and chlorine- bearing biotite from Tusham Ring Complex, NW India: Constraints on halogen distribution and geodynamic evolution	Kumar, N., Kumar, N., Sharma, R., Singh, A.K.	Jour. of Earth System Science/ 0253-4126	https://doi.org/10.1007/s12040-020-01517-7 130, 1-8 (2021)
54	Microseismicity study in the Siang Valley of Arunachal Himalaya: Tectonic Implications of the 2019 Mw 5.9 Mechuka earthquake	Yadav, D.K., Hazarika, D., Kumar, N., Singh, A.K.	Himalayan Geology /0971-8966	https://www.himgeology.com/ v.42 (2), 290-298. (2021)

53	Age and depositional environment of carbonate exotics associated with the Disang group of Assam– Arakan Basin, Northeast India: constraints from microfossils and geochemistry	Guruaribam, V., Singh, Y.R., Singh, A.K.	Carbonates and Evaporites/ 0891-2556	https://doi.org/10.1007/s13146-021-00715-8 v.36(2), 1-18 (2021)
52	Geology, Structural, Metamorphic and Mineralization Studies Along the Mandi-Kullu-Manali-Rohtang Section of Himachal Pradesh, NW-India	Singh, P., Ao, A., Thakur, S.S., Rana, S., Sharma, R., A. K. Singh, Singhal, S.	In: Structural Geology and Tectonics Field Guidebook— Volume 1,	https://doi.org/10.1007/978-3-(eBook) pp 437–460 (2021)
51	Continental extension of northern Gondwana margin in the Eastern Himalaya: Constraints from geochemistry and U-Pb zircon ages of mafic intrusives in the Siang window, Arunachal Himalaya, India	Oinam, G., Singh, A.K., * Joshi, M., Dutt, A., Singh, M.R., Lakhan, N., Bikramaditya R.K.	Compt. Rendus Geoscience 1631-0713	https://doi.org/10.5802/crgeos.6 v.352, 1, 19-41, (2020)
50	Petrogenesis and Tectonic Significance of the Neoproterozoic Magmatism of the Tusham Ring Complex (NW Indian Shield): Insight into Tectonic Evolution of the Malani Igneous Suite and Rodinia Supercontinent	Kumar, N., Kumar, N., Sharma, R., Singh, A.K.	Geotectonics 16-8521	https://doi.org/10.1134/S001685212003005X v.54, 3, 428–453. (2020)
49	Evolution of Late Cretaceous to Palaeogene basalt–andesite–dacite–rhyolite volcanic suites along the northern margin of the Ladakh magmatic arc, NW Himalaya, India	Lakhan, N., Singh, A.K., Singh, B.P., Oinam, G., Premi, Ksh.	Jour. of Earth System Science/ 0253-4126	https://doi.org/10.1007/s12040-020-1372-6 v.129 (1), 1-23 (2020)
48	Neoproterozoic arc-back arc subduction system in the Indian Peninsula: Evidence from mafic magmatism in the Shimoga greenstone belt, western Dharwar Craton	Singh, M.R., Singh, A.K., Santosh, M., Lingadevaru, M., Lakhan, N.	Geological Journal/ 1099-1034	DOI: 10.1002/gj.3733 v.020; 55: 308–5329 (2019)

47	Petrology and Geochemistry of Acid Volcano-Plutonic Rocks from Riwasa and Nigana Areas of Neoproterozoic Malani Igneous Suite, Northwestern Peninsular India: An Understanding Approach to Magmatic Evolution	Naveen Kumara, Naresh Kumara, and Singh, A. K.	Geochemistry International/ 0016-7029	https://doi.org/10.1134/S001670291906003X v.59, 1, 66–91. (2019)
46	Zircon U-Pb geochronology, Hf isotopic compositions and Petrogenetic study of Abor volcanic rocks of Eastern Himalayan Syntaxis, Northeast India: implications for eruption during breakup of Eastern Gondwana	Singh, A. K. , Chung, S.L., Bikramaditya, R.K., Lee, H.Y. and Khogenkumar, S.	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.3477 v.55(2), 1227-1244 (2018)
45	Zircon U-Pb geochronology, mineral and whole-rock geochemistry of the Khardung volcanics, Ladakh Himalaya, India: Implications for late cretaceous to Palaeogene continental arc magmatism	Lakhan N, Singh, A. K. ,* BP, Sen, K., Singh, M.R., Khogenkumar, S., Singhal, S., Oinam, G.	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.3594 v.55(5), 3297-3320 (2019)
44	Age and isotope geochemistry of magmatic rocks of the Lohit Plutonic Complex, eastern Himalaya: implications for the evolution of Transhimalayan arc magmatism	Bikramaditya, R.K., Chung, S.L., Singh, A. K. ,* Lee, H.Y., Lin, T.H., Iizuka, T.,	Journal of the Geological Society, London/ 0016-7649	doi.org/10.1144/jgs2018-214 v.55 (2), 1227-1244 (2019)
43	Crustal Thickness and Poisson's Ratio variations in the northeast India-Asia collision zone: Insight into the Tuting-Tidding Suture zone, Eastern Himalaya	Kundu, A., Hazarika, D., Hajra, S., Singh, A.K. , Ghosh, P.	Jour. Asian Earth Sciences/ 1367-9120	https://doi.org/10.1016/j.jseaes.2019.104099 v.188, 104099 (2020)
42	Garnetiferous metamorphic rocks in Jaspa granite, Himachal Pradesh, India: implication of Tethyan Himalayan metamorphism and tectonics	Thakur, S.S., Singh, A.K. , Rao, D.R., Sharma, R., Pandey, S., Ao, A.	Current Science/ 0011-3891	doi: 10.18520/cs/v115/i8/1576-1583 v. 115(8), 1576-1583 (2018)

41	Yttrium-zoning in garnet and stability of allanite in metapelites from the Main Central Thrust Zone and adjacent higher Himalayan crystallines along the Alaknanda Valley, NW Himalaya	Thakur, S.S., Madhavan, K., Patel, S.C., Rao, D.R., Singh, A.K. , Pandey, S., and Nandini, P	Lithos/ 0024-4937	https://doi.org/10.1016/j.lithos.2018.09.002 v. 320–321, 1–19 (2018)
40	Zircon U–Pb ages and Lu– Hf isotopes of metagranitoids from the Subansiri region, Eastern Himalaya: implications for crustal evolution along the northern Indian passive margin in the early Paleozoic	Bikramaditya, R.K. Singh, A. K. ,* Chung, S.L., Sharma Rajesh and Lee, H.Y.	Journal of Geological Society London (Sp.Pub)/ 0305-8719	https://doi.org/10.1144/SP481.7
39	Palynology and Mineral Composition of the Upper Disangflyschoid sediments from the Southern Manipur, Northeast India: Age, Paleoenvironment and Provenance Reconstruction	Singh, Y. R, Singh, B.P. Singh, A.K. , Devi, S.R.	Himalayan Geology/ 0971-8966	https://www.himgeology.com/volume_details.php?volume=60
38	New U-Pb zircon ages of plagiogranites from the Nagaland-Manipur Ophiolites, Indo-Myanmar Orogenic Belt, Northeast India	Singh, A. K. ,* Chung, S.L., Singh, R.K.B. and Lee, H.Y.	Jour. Geological Society London/ 0016-7649	https://doi.org/10.1144/jgs2016-048 v.174(1), 170-179 (2017)
37	Detection of a weak late- stage deformation event in granitic gneiss through anisotropy of magnetic susceptibility: implications for tectonic evolution of the Bomdila Gneiss in the Arunachal Lesser Himalaya, Northeast India	Singh, R.K.B., Singh, A. K. , Sen, K. and Sangode, S.J.	Geological Magazine/ 1469-5081	https://doi.org/10.1017/S0016756816000133 v.154 (3), 476-490 (2017)
36	Genesis and tectonic implications of cumulate pyroxenites and tectonite peridotites from the Nagaland-Manipur ophiolites, Northeast India: constraints from mineralogical and geochemical characteristics	Singh, A. K. ,* Khogenkumar, S., Subramanyam, K.S.V. , Thakur, S.S., Singh, R.K.B. and M Satyanarayanan	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.2769 v. 52 (3), 415-436 (2017)

35	Platinum Group minerals and silicate inclusions in chromitite from The Naga-Manipur ophiolite complex, Indo-Myanmar orogenic belt, Northeast India	Zaccarini, F., Singh, A.K., Garuti, G.	The Canadian Mineralogist /0008-4476	https://doi.org/10.3749/canmin.1500034 v.54, pp. 409-427 (2016)
34	Coexistence of MORB and OIB-type mafic volcanics in the Manipur Ophiolite Complex, Indo-Myanmar Orogenic Belt, northeast India: Implication for heterogeneous mantle source at the spreading zone	Khogenkumar, S., Singh, A. K.,* Singh, R.K.B. ., Khanna, P.P. Singh, N. I., Singh, W. I.	Jour. Asian Earth Sciences/ 1367-9120	https://doi.org/10.1016/j.jseaes.2015.11.007 v.116, 42-58 (2016)
33	Rare earth elements and Stable isotope geochemistry of carbonates from the ophiolitic mélange zone of Manipur, Indo-Myanmar Orogenic Belt, Northeast India	Singh, A. K.,* V.C.Tewari, A.N. Sial, P.P. Khanna, N.I. Singh	Carbonates and Evaporites/ 0891-2556	https://doi.org/10.1007/s13146-015-0249-2 v.31, 139–151 (2016)
32	Evidence of Mid-ocean ridge and shallow subduction forearc magmatism in the Nagaland-Manipur ophiolites, northeast India: constraints from mineralogy and geochemistry of gabbros and associated mafic dykes	Singh, A. K.,* Khogenkumar, S., Singh, L.R., Singh, R.K.B. ., Khuman, Ch.M. and Thakur,S.S.	Geochemistry Chemie der Erde/ 0009-2819	https://doi.org/10.1016/j.chemer.2016.09.002 v.76(4),605-20 (2016)
31	Platinum-group minerals (PGM) in the chromitite from the Nuasahi massif, eastern India: further findings and implications for their origin	Zaccarini, F., Singh, A.K., Garuti,G., Satyarayanan, M	European Journal of Mineralogy/ 0935-1221	https://doi.org/10.1127/ejm/2017/0029-2637 v.29, 571-584; (2017)
30	A P–T pseudosection modelling approach to understand metamorphic evolution of the Main Central Thrust Zone in the Alaknanda valley, NW Himalaya	S.S. Thakur, S.C. Patel, S.C., Singh, A. K.	Contributions to Mineralogy and Petrology/ 0010-7999	https://doi.org/10.1007/s00410-015-1159-y v.170(2)1-26 (2015)
29	Volcanic features associated with the Abor volcanics of the Siang Window, Eastern Himalaya	Singh, A. K.*	Himalayan Geology/ 0971-8966	v.35(1),40-46 (2014)

28	Microstructural and Geochemical studies of Higher Himalayan Leucogranite: implications for geodynamic evolution of Tertiary Leucogranite in the Eastern Himalaya	Singh, R.K.B., Singh, A. K.*	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.2480 v.49, 28-51 (2014)
27	Timing and conditions of peak metamorphism and cooling across the Zimithang Thrust, Arunachal Pradesh, India	Warren, C.J., Singh, A. K., Roberts, N.M.W., Daniele Regis, D., Halton, A.M. and Singh, R.K.B.	Lithos/ 0024-4937	https://doi.org/10.1016/j.lithos.2014.04.005 v.200-201, 94-110 (2014)
26	Platinum-group elements and gold distributions in peridotites and associated podiform chromitites of the Manipur Ophiolitic Complex, Indo-Myanmar Orogenic Belt, Northeast India	Singh, A. K.,* Devi, L. D., Singh, N. I., Subramanyam, K.S.V., Singh, R.K.B. and M. Satyanarayanan	Geochemistry - Chemie der Erde/ 0009-2819	https://doi.org/10.1016/j.chemer.2012.07.004 v.73, 147-161 (2013)
25	Genetic implications of Zn- and Mn-rich Cr-spinels in serpentinites of the Tidding Suture Zone, eastern Himalaya, NE India	Singh, A. K.* and Singh, R.K.B.	Geological Journal/ 1099-1034	https://doi.org/10.1002/gj.2428 48: 22-38 (2013)
24	Geochemistry and petrogenesis of metabasic rocks from the Lesser Himalayan Crystallines, western Arunachal Himalaya, northeast India	Singh, R.K.B. and Singh, A. K.*	Geosciences Journal/ 1226-4806	https://doi.org/10.1007/s12303-013-0005-3 v.17(1), 27-41, (2013)
23	Petrology and geochemistry of Abyssal Peridotites from the Manipur Ophiolite Complex, Indo-Myanmar Orogenic Belt, Northeast India: implication for melt generation in mid-oceanic ridge environment	Singh, A. K.*	Jour. Asian Earth Sciences/ 1367-9120	https://doi.org/10.1016/j.jseaes.2013.02.004 v.66, 258-276 (2013)
22	Geochemistry of Mid Ocean Ridge Mafic intrusives from the Manipur Ophiolitic Complex, Indo Myanmar Orogenic Belt, NE India	Singh, A. K.,* Singh, N.I., Devi, L. D. and Singh, R.K.B.	Jour. Geological Society of India/ 0016-7622	https://doi.org/10.1007/s12594-012-0133-9 v.80 (2), 231-240 (2012)
21	Geochemical Constraints on the Petrogenesis and Tectonic Environment of Gabbroic Intrusives in the Siang Window of Eastern Himalaya, Northeast India	Singh, A. K.*	Jour. Geological Society of India/ 0016-7622	https://doi.org/10.1007/s12594-012-0097-9 v.79, 576-588 (2012)

20	Petrogenetic evolution of the felsic and mafic volcanic suite in the Siang window of Eastern Himalaya, Northeast India	Singh, A. K.,* Singh, R.K.B.	Geoscience Frontiers/ 1674-9871	https://doi.org/10.1016/j.gsf.2012.01.004 v.3(5), 613-634 (2012)
19	Zn and Mn rich chromespinals in serpentinite of Tidding Suture Zone, Eastern Himalaya and their metamorphism and genetic significance	Singh, A. K.,* Singh, R.K.B.	Current Sciences/ 0011-3891	https://www.currentscience.ac.in/Volumes/100/05/0743.pdf v.100 (5), 743-49 (2011)
18	Geochemical and biostratigraphic constraints on the genesis of mafic intrusive in the Buxa Dolomite (Neoproterozoic), Panging area of the Arunachal Lesser Himalaya, north east India	Singh, A. K.,* V. C.Tewari	Jour. Nepal Geological Society/ 0259-1316	https://www.nepjol.info/index.php/JNGS/issue/view/1661 v.40, 1-12. (2010)
17	Mineralogy and geochemistry of ultramafic rocks of northern Manipur Ophiolitic Complex, Indo- Myanmar Orogenic Belt, North East India	Singh, A. K.,* N I. Singh, L D. Devi, Th. Ranjit	Himalayan Geology/ 0971-8966	v.31(1), 7-18 (2010)
16	Petro-Chemical Characteristics of Abyssal Ultramafics of Siroi-Nunghar-Gamnom Areas of Manipur Ophiolitic Complex, Indo-Myanmar Orogenic Belt.	Singh, A. K., Singh, N.I. and Devi, L.D.	In: Indo- Myanmar Ranges in the tectonic framework of the Himalaya and SE Asia, Vol. 75, 291- 302	Geological Society of India, Memoir, ISBN No:978-81- 85867-96-0 (2010)
15	A Note on the Characters of some Lower Gondwana Coals of West Siang District in the Arunachal Himalaya and their Trace Element Content	Nayak, B., Singh, A. K., Upadhyay, A.K. and Bhattacharyya, K.K.	Jour. Geological Society of India/ 0016-7622	https://doi.org/10.1007/s12594-009-0138-1 v.74, 395-401 (2009)
14	Radioactive element distribution and rare-metal mineralization in Anorogenic acid volcano-plutonic rocks of the Neoproterozoic Malani Felsic Province (MFP), Western Peninsular India	Singh, A. K.,* Vallinayagam, G.	Jour. Geological Society of India/ 0016-7622	https://doi.org/10.1007/s12594-009-0067-z v.73, 837-853 (2009)

13	High-Al chromian spinel in ultramafic rocks of Manipur Ophiolite Complex, Indo-Myanmar Orogenic Belt: implication for petrogenesis and geo-tectonic setting	Singh, A. K.*	Current Sciences/ 0011-3891	https://www.jstor.org/stable/24104690 v.96 (7), 973-978. (2009)
12	Geochemistry and Platinum Group of Elements (PGE) of ultramafic rocks and chromitites of Manipur Ophiolitic Complex, Northeast India.	Singh, A.K.	In: Magmatism, tectonism and mineralization . pp. 322-336.	Macmillan Pub. India Ltd. New Delhi. ISBN: 978-0230-63861-7 (2009)
11	Platinum Group of Elements (PGE) and Gold in the ultramafic rocks of Manipur Ophiolitic Complex, NorthEast India: A preliminary report	Singh, A. K.,* Devi, L.D., Singh, N.I	Jour. Geological Society of India/ 0016-7622	http://www.geosocindia.org/index.php/jgsi/article/view/61230 v.71, 739-743. (2008)
10	Pillow basalts from the Manipur Ophiolitic Complex (MOC), Indo- Myanmar Range, Northeast India	Singh, A. K.,* Singh, N.I., Devi, L. D., Singh, R.K.B.	Jour. Geological Society of India/ 0016-7622	http://52.172.159.94/index.php/jgsi/article/view/80615/0 v.72, 168-174 (2008)
9	Petrology and Geochemistry of amphibolites of the Bomdila Group, Western Arunachal Himalaya	Singh, R.K.B., Gururajan, N.S. Singh, A. K.*	Jour. Applied Geochemistry/ 0972-1967	v.10(2), 92-107 (2008)
8	PGE Distribution in the Ultramafic Rocks and Chromitites of the Manipur Ophiolite Complex, Indo-Myanmar Orogenic Belt, Northeast India	Singh, A. K.*	Jour. Geological Society of India/ 0016-7622	v.72, 649-660 (2008)
7	Chemical characteristics of alkaline basalt from the Abor volcanics of Arunachal Himalaya	Singh, A. K.*	Jour. Geological Society of India/ 0016-7622	v.69, 1189-1194 (2007)
6	High heat production granites from the Piplun and Kundal areas, Malani Igneous Suite, Western Rajasthan	Singh, A. K.,* Vallinayagam, G.	Jour. Geological Society of India/ 0016-7622	v.68, 585-588. (2006)

5	Dolerite dykes of Kundal area in Neoproterozoic Malani Igneous Suite, Rajasthan, India.	Singh, A. K.*	Jour. Geological Society of India/ 0016-7622	v.68, 695-704 (2006)
4	Anorogenic acid volcanic rocks in the Kundal area of the Malani Igneous Suite, Northwestern India: geochemical and petrogenetic studies	Singh, A. K.,* Singh, R.K.B., Vallinayagam, G	Jour. Asian Earth Sciences/ 1367-9120	v.27, 544-557 (2006)
3	Petrography, geochemistry and petrogenesis of Abor volcanics, Eastern Himalayan Syntaxial Bend	Singh, A. K.*	Himalayan Geology/ 0971-8966	v.27 (2) 163-181, (2006)
2	Geochemistry and petrogenesis of Anorogenic basic volcanic-plutonic rocks of the Kundal area, Malani Igneous Suite, Western Rajasthan, India	Singh, A. K.,* Vallinayagam, G.	Jour. Earth System Sciences/ 0253-4126	v.113,4, 667-681 (2004)
1	Geochemistry and petrogenesis of granite in Kundal area, Malani Igneous Suite, Western Rajasthan	Singh, A. K.,* Vallinayagam, G.	Jour. Geological Society of India/ 0016-7622	v.60, 183-192 (2002)