

DR. MUTUM RAJANIKANTA SINGH, SCIENTIST –B, WIHG, DEHRADUN, INDIA



Google Scholar Page:

<https://scholar.google.co.in/citations?user=ZZMOGRsAAAAJ&hl=en>

Researchgate Page:

https://www.researchgate.net/profile/Mutum_Singh5

RESEARCH GROUP:

PETROLOGY AND GEOCHEMISTRY

FIELD OF SPECIALIZATION:

IGNEOUS PETROLOGY AND GEOCHEMISTRY

EDUCATION:

Degree	Year	Subject	University/Institution	Rank
Ph.D.	2017	Geology	National Geophysical Research Institute, Hyderabad/ Andhra University	
M.Sc.	2011	Geology	University of Mysore	Distinction
B.Sc.	2009	Geology (Honors)	Manipur University	First

PROFESSIONAL EXPERIENCE:

Positions	Name of the Institute	From	To
Scientist-B	Wadia Institute of Himalayan Geology	4/11/2020	present
Teaching Faculty	Central University of Karnataka	18/02/2020	1/10/2020
SERB-National Post Doctoral Fellow (NPDF)	Wadia Institute of Himalayan Geology	20-11-2017	19-11-2019
CSIR- Research Fellow	CSIR-National Geophysical Research Institute	26-03-2012	30/06/2017

TEACHING EXPERIENCE:

- Engaged on a contractual basis to serve as teaching faculty in the Department of Geology, School of Earth Sciences at the Central University of Karnataka, Kalaburagi.
- Teaching geology related subjects for M.Sc. & U.G. (even+odd semester 2020).

SERVICES:

a. Training :

- “ICPMS Technique in Geochemical Analysis” conducted by Training Institute, Geological Survey of India, Hyderabad from 15th to 24th April 2015.
- “Second Refresher Course on Petrology of Igneous Rocks” conducted by Training Institute, Geological Survey of India, Hyderabad from 18th to 28th October 2013
- DST-sponsored Training Course on “Geochemical Modelling in Igneous Petrogenesis: An Introduction to GCD-kit”, during 12-15, January 2013, at CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad-500007, INDIA

b. Editorial Board:

Editorial Board Member in “Earth Sciences (EARTH); ISSN Print: 2328-5974 ISSN Online: 2328-5982 <http://www.sciencepublishinggroup.com/j/earth>”.

c. International/National Seminars/Workshop:

Title of Conference/ Seminar, etc.	Organizer
‘Goldschmidt 2015’ Prague, Czech Republic	European Association of Geochemistry and the Geochemical Society
‘Goldschmidt 2019’ Barcelona, Spain	European Association of Geochemistry and the Geochemical Society
3rd Precambrian Continental Growth and Tectonism 2013	Department of Geology, Institute of Earth Sciences Bundelkhand University, Jhansi, India
4 th NATIONAL GEO-RESEARCH SCHOLARS MEET 2020	Wadia Institute of Himalayan Geology
3 rd NATIONAL GEO-RESEARCH SCHOLARS MEET 2019	Wadia Institute of Himalayan Geology
2nd NATIONAL GEO-RESEARCH SCHOLARS MEET 2017	Wadia Institute of Himalayan Geology
100th Indian Science Congress - What does science hold for Indian future 2013	ISC, University of Kolkata
Indian Society of Applied Chemistry (ISAG) 2015	ISAG Atomic Mineral Directorate (AMD), Hyderabad, India
APAS Science for Smart Technologies 2016	1st Andhra Pradesh Science Congress
Advances in Mantle Petrology 2018	Department of Geology, Banaras Hindu University(BHU), Varanasi
Isotopes in Earth, Ocean & Atmospheric Sciences, 2019	CSIR-National Institute of Oceanography, Goa, and IUAC, Delhi

AWARDS/FELLOWSHIPS/HONORS/MEMORIAL LECTURES:

- ✓ Received CSIR-Golden Jubilee Award 2012-2014.
- ✓ Received CSIR-Senior Research Fellowship for the year 2015-2017.
- ✓ Received SERB-National Post Doctoral Fellowship for the year 2017-2019.
- ✓ Received Foreign Travel Grant from SERB in the year 2019 for attending Goldschmidt 2019, held in Barcelona, Spain.
- ✓ Received Foreign Travel Grant from CSIR in 2017 for attending European Geoscience Union 2017, held in Vienna, Austria.
- ✓ Received Foreign Travel Grant from DST in the year 2015 for attending Goldschmidt 2015, held in Prague, Czech Republic.
- ✓ Received best oral presentation at Indian Science Congress 2013 held in Calcutta University.
- ✓ The winner in chess during Mysore University intercollegiate competition 2011
- ✓ Invited Lecture, 2019 - Department of Geology, D.M. College of Science, Imphal-795001, Manipur.

COUNTRIES VISITED:

1. Barcelona, Spain to attend Goldschmidt 2019
2. Prague, Czech Republic, to attend Goldschmidt 2015

Inside WIHG Collaborator: Activity 1A

LIST OF PUBLICATIONS

SCI Papers - 13

1. **Rajanikanta Singh M.**, A.K., Singh, Santosh M., Lingadevaru M., Lakhan, N., 2020. Neoproterozoic arc-back arc subduction system in the Indian Peninsula: Evidence from mafic magmatism in the Shimoga greenstone belt, western Dharwar Craton. **Geological Journal**, Vol. 55, 7, 5308-5329.
2. Madhuparna Paul, Jyotisanakar Ray, C. Manikyamba, Sohini Ganguly, **M. Rajanikanta Singh**, Saraswati Pachal, Debaleena Sarkar, 2020. Mafic volcanic rocks of western Iron Ore Group, Singhbhum Craton, eastern India: Geochemical evidence for ocean-continent convergence. **Geological Journal**, DOI: 10.1002/gj.3944
3. Manikyamba C., Arijit P., Santosh M., Shinduja C.S., Subramanyam K.S.V., **Rajanikanta Singh M.** 2020. Mesoproterozoic gabbro-anorthosite complex from Singhbhum Craton, India. **Lithos**, Vol. 105541, 366-367.
4. Govind O, A.K., Singh, M. Joshi, A. Dutt, **M. Rajanikanta Singh**, N. L., Singh, R. K. B. Singh, 2020. 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. **Comptes Rendus Géoscience-Sciences de la Planète**, Vol. 352, 19-41.

5. Lakhan, n., Singh, A.K., Singh., B.P., Sen, K., **Rajanikanta Singh., M.**, Khogenkumar, S., Singhal, S., Oinam, G, **2019**. 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. **Geological Journal**, Vol. 55, 5, 3297-3320.
6. Singh S.P., Subramanyam K.S.V., Manikyamba C., Santosh M., **Rajanikanta Singh M.**, B.Chandan Kumar, **2018**. Geochemical systematic of the Mauranipur-Babina greenstone belt, Bundelkhand Craton, Central India: Insights on Neoproterozoic mantle plume-arc accretion and crustal evolution. **Geosciences Frontiers**, Vol. 9, 769-788.
7. **Rajanikanta Singh M.**, Manikyamba C., Sohini G., Ray J., Santosh M., Singh Th.D., Chandan K., **2017**. Paleoproterozoic arc basalt-boninite-high magnesian andesite-Nb enriched basalt association from the Malangtoli volcanic suite, Singhbhum Craton, eastern India: geochemical record for subduction initiation to arc maturation continuum. **Journal of Asian Earth Sciences**, Vol. 134, 191-206.
8. **Rajanikanta Singh M.**, Manikyamba C., Ray J., Ganguly S., Santosh M., Saha A., Rambabu S., Sawant S.S., **2016**. Major, trace and platinum group element (PGE) geochemistry of Archean Iron Ore Group and Proterozoic Malangtoli metavolcanic rocks of Singhbhum Craton, Eastern India: Inferences on mantle melting and sulphur saturation history. **Ore Geology Reviews**, Vol. 72, 1263–1289.
9. Manikyamba C., Ray J., Ganguly S., **Rajanikanta Singh M.**, Santosh M., Saha A., Satyanarayanan, M., **2015**. Boninitic metavolcanic rocks and island arc tholeiites from the Older Metamorphic Group (OMG) of Singhbhum Craton, eastern India: Geochemical evidence for Archean subduction processes. **Precambrian Research**, Vol. 271, 138–159.
10. Manikyamba C., Saha A., Santosh M., Ganguly S., **Rajanikanta Singh M.**, Subba Rao D.V., Lingadevaru M., **2014**. Neoproterozoic felsic volcanic rocks from the Shimoga greenstone belt, Dharwar Craton, India: Geochemical fingerprints of crustal growth at an active continental margin. **Precambrian Research**, Vol. 252, 1–21.
11. Manikyamba C., Ganguly S., Saha A., Santosh M., **Rajanikanta Singh M.**, Subba Rao D.V., **2014**. Continental lithospheric evolution: constraints from the geochemistry of felsic volcanic rocks in the Dharwar Craton, India. **Journal of Asian Earth Science**, Vol. 95, 65-80.
12. Manikyamba C., Saha A., Santosh M., Ganguly S., **Rajanikanta Singh M.**, Subba Rao D.V., Lingadevaru M., **2014**. Sediment-infill volcanic breccia from the Neoproterozoic Shimoga greenstone terrane, western Dharwar Craton: Implications on pyroclastic volcanism and sedimentation in an active continental margin. **Journal of Asian Earth Science**, Vol. 96, 269–278.
13. Manikyamba C., Ganguly S., Santosh M., **Rajanikanta Singh M.**, Saha A., **2014**. Arc-nascent back-arc signature in metabasalts from the Neoproterozoic Jonnagiri greenstone terrane, Eastern Dharwar Craton, India. **Geological Journal**, Vol. 50, 651-669.