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## **Tectono-Metamorphic and Mineral Exploration studies on Precambrian age group rocks to search new mineral resources in India**

Aditya Udayraj Joshi Dr

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# Dr Aditya Udayraj Joshi

## Fellowships/ Awards/ Honors

**2013 – DST PURSE FELLOW** awarded by Department of Science and Technology, New Delhi – Government of India.

## Membership of Professional Bodies

**2021 onwards – Life Member**, Geological Society of India.

## Publications (Research)

Geoheritage Values of the Champaner-Pavagadh Archaeological Park, UNESCO World Heritage Site, Gujarat, Western India. **Joshi, A.U.**, Gorania, P., Limaye, M.A., Chauhan, G.D., Thakkar, M.G. *Geoheritage*, 2022, 14(3), 88 (*Impact factor: 3.413 ; Q2*; <https://doi.org/10.1007/s12371-022-00720-w>).

A Field Guide to the Champaner Region, Southern Aravalli Mountain Belt (SAMB), Gujarat, Western India. **Joshi, A.U.**, Limaye, M.A. In: Mukherjee, S. (eds) **Structural Geology and Tectonics Field Guidebook — Volume 1**. Springer Geology (2021). Springer, Cham. pp. 529-575 ([https://doi.org/10.1007/978-3-030-60143-0\\_18](https://doi.org/10.1007/978-3-030-60143-0_18)).

A 3D photogrammetric approach in mapping meso-scale folds and shears in structurally controlled syngenetic Mn-mineralised zones of Shivrajpur Region, Eastern Gujarat, India **Joshi, A.U.** In: Mukherjee, S. (eds) **Structural Geology and Tectonics Field Guidebook — Volume 1**. Springer Geology (2021). Springer, Cham. pp. 685–706 ([https://doi.org/10.1007/978-3-030-60143-0\\_23](https://doi.org/10.1007/978-3-030-60143-0_23)).

**Fold interference patterns in Meso-Proterozoic Champaner fold belt (CFB) Gujarat, western India.** **Joshi, A.U.** *Journal of Earth System Science*, 2019, 128(3), 48 (*Impact factor: 2.045 ; Q2*; <https://doi.org/10.1007/s12040-019-1075-z>).

“Fish-hook” shape intrafolial fold train in quartzite–metapelite band, Lunavada region, NE Gujarat, western India. **Joshi, A.U.**, Limaye, M.A., Deota, B.S. *International Journal of Earth Sciences*, 2019, 108(1), pp. 183–186 (*Impact factor: 2.842; Q1*; <https://doi.org/10.1007/s00531-018-1639-1>).

**Rootless calc-silicate folds in granite: An implication towards syn- to post-plutonic emplacement.** **Joshi, A.U.**, Limaye, M.A. *Journal of Earth System Science*, 2018, 127(5), 67 (*Impact factor: 2.045 ; Q2*; <https://doi.org/10.1007/s12040-018-0968-6>).

Subsurface profiling of granite pluton using microtremor method: southern Aravalli, Gujarat, India. **Joshi, A.U.**, Sant, D.A., Parvez, I.A., ...Bhatt, M.N., Mistry, S.P. *International Journal of Earth Sciences*, 2018, 107(1), pp. 191–201 (*Impact factor: 2.842; Q1*; <https://doi.org/10.1007/s00531-017-1482-9>).

## Research Projects:

**2022** – Title: Strain distribution and provenance studies on uranium bearing Jaban meta-conglomerate and wacke of Proterozoic Champaner Fold Belt, western India: emphasis on tectonics of Rodinia supercontinent assembly.

Duration: Two Years (Ref No: SRG/2022/000168)

Amount: Rs. 20,60,872/-

Funding Agency: Science and Engineering Research Board, Department of Science and Technology, GoI.

PI: Dr Aditya Udayraj Joshi (MAHE)

**Status: Ongoing**

**2021** – Title: Structural control and timing of Pb-Zn mineralization in the rocks of Khandia Formation, Champaner Group, Gujarat, Western India.

Duration: One Year (Ref No: Seed Money Proposal ID – 00000511)

Amount: Rs. 25,000/-

Funding Agency: Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal. 576104. Karnataka.

PI: Dr Aditya Udayraj Joshi (MAHE)

**Status: Ongoing**

## Instrumental Facilities to conduct hard rock research:

1. Inductively coupled plasma - optical emission spectrometry (ICP-OES).
2. Advanced Petrological Microscope with camera (Leica).