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PERSONAL INFORMATION

Designation: Postdoctoral fellow

Address (Official): Office 606, Institute of Earth Sciences, No. 128,
Section 2, Academia Rd, Academia Sinica,
Nangang District, Taipei City, 115

EXPERIENCE

August 2021-Present Postdoctoral fellow, Institute of Earth Sciences,
Academia Sinica, Taiwan

June 2019-July 2021 Postdoctoral fellow, National Taiwan Normal
University, Taipei, Taiwan

January 2019-June 2019 Temporary Faculty, National Institute of
Technology, Raipur, India

EDUCATION

Doctor of Philosophy (PhD) in Geology Pt. Ravishankar Shukla University, Raipur, India,
(2015-2018) Thesis title: Petrogenetic study of the mafic and
ultramafic rocks of Sonakhan greenstone belt,
northeastern fringes of Bastar craton-implications
for the crustal evolution.

Master of Science in Applied Geology Pondicherry University, Puducherry, India
(2013-2015)

Bachelor of Science in Geology University of Kerala, India
(2010-2013)

AWARDS AND RECOGNITIONS

- Young Scientist Award-2018, Chhattisgarh Council of Science and Technology, under the discipline of Earth and Atmospheric Sciences
- Qualified CSIR/UGC-NET in Earth, Atmospheric, Ocean and Planetary Sciences, December 2014, Reg no: 201552
- Qualified CSIR/UGC-NET in Earth, Atmospheric, Ocean and Planetary Sciences, June 2014, Reg no:208118

ACADEMIC-RELATED SOCIAL ACTIVITIES

- Guest editor of Special Topic in *Frontiers in Earth Science: Developments in the Lithospheric Evolution of the Indo-Pacific Region* (2023)
- Jury member, International Earth Science Olympiad camp, Taiwan (2022)
- Reviewed manuscripts for *Lithos*, *Gondwana Research*, *Journal of Geodynamics*, *Geological Journal*, *Journal of African Earth Sciences*, *Journal of Asian Earth Sciences*, *Canadian Mineralogist*, *Geological Magazine*, *Frontiers in Earth Science*, *Communications Earth & Environment*, *Geochemistry Geophysics Geosystems*, *Journal of the Geological Society*, *The Journal of Geology*, *Journal of the Geological Society of India*, *Minerals*, *Scientific Reports*, *Island Arc*, *International Geology Review*, *Journal of Petrology*, *Contributions to Mineralogy and Petrology*, *Chemical Geology* and *Frontiers in Astronomy and Space Sciences*

RESEARCH METRICS

- H-index: 7
- i10-index: 6
- Total citations: 218

Source: Google Scholar

PUBLICATIONS

1. J. Gregory Shellnutt, Meng-Wan Yeh, Tung-Yi Lee, Yoshiyuki Iizuka, Wei-Yu Chen & **M. P. Manu Prasanth** (2024). Sub-arc mantle heterogeneity of the Northern Luzon Volcanic Arc: mineral and whole rock compositional variability in mantle xenoliths from Lutao Island. **Journal of Petrology** (<https://doi.org/10.1093/petrology/egae037>)
2. Shellnutt, J. Gregory., Meng-Wan, Yeh., **Manu Prasanth, M. P.**, & Van-Duong, Nguyen. (2023). Editorial: Developments in the Lithospheric Evolution of the Indo-Pacific Region. **Frontiers in Earth Science**, 11, 1327712.
3. **Manu Prasanth, M. P.**, Sharma, A. S. P., Santosh, M., Yang, C. X., & Hari, K. R. (2023). Insights into the petrogenetic evolution of the Khallari layered intrusion and coeval granites of the Paleoproterozoic Dongargarh Supergroup, Bastar Craton, India. **Precambrian Research**, 391, 107040.
4. **Manu Prasanth, M. P.**, Pang, K. N., Hari, K. R., Sahoo, B. B., Ravindran, A., & Iizuka, Y. (2023). Geochemistry of Precambrian dyke swarms in the Singhbhum craton, India: Implications for recycled crustal components in the mantle source. **Frontiers in Earth Science**, 10, 1092823.
5. **Manu Prasanth, M. P.**, Shellnutt, J. G., & Lee, T. Y. (2022). Secular variability of the thermal regimes of continental flood basalts in large igneous provinces since the Late Paleozoic: Implications for the supercontinent cycle. **Earth-Science Reviews**, 226, 103928.
6. **Manu Prasanth, M. P.**, Shellnutt, J. G., Hari, K. R., Chalapathi Rao, N. V., & Hou, G. (2021). Platinum-group element and Au geochemistry of an ultramafic intrusion from the

- Sonakhan greenstone belt, Bastar craton, Central India: Tectono-magmatic implications. *Geological Journal*, 56(11), 5550-5563.
7. Shellnutt, J. G., Ur Rehman, H., & **Manu Prasanth, M. P.** (2022). Insight into crustal contamination and hydrothermal alteration of the Panjal Traps (Kashmir) from O-isotopes. *International Geology Review*, 64(11), 1556-1573.
 8. Shellnutt, J. G., & **Manu Prasanth, M. P.** (2021). Modeling results for the composition and typology of non-primary venusian anorthosite. *Icarus*, 366, 114531.
 9. Santosh, M., Tsunogae, T., Yang, C. X., Han, Y. S., Hari, K. R., **Manu Prasanth, M. P.**, & Uthup, S. (2020). The Bastar craton, central India: A window to Archean–Paleoproterozoic crustal evolution. *Gondwana Research*, 79, 157-184.
 10. **Manu Prasanth, M. P.**, Hari, K. R., & Santosh, M. (2019). Tholeiitic basalts of Deccan large igneous province, India: An overview. *Geological Journal*, 54(5), 2980-2993.
 11. **Manu Prasanth, M. P.**, Hari, K. R., Chalapathi Rao, N. V., Santosh, M., Hou, G., Tsunogae, T., & Pandit, D. (2019). Neoproterozoic suprasubduction zone magmatism in the Sonakhan greenstone belt, Bastar Craton, India: Implications for subduction initiation and melt extraction. *Geological Journal*, 54(6), 3980-4000.
 12. Hari, K. R., **Manu Prasanth, M. P.**, Swarnkar, V., Kumar, J. V., & Randive, K. R. (2018). Evidence for the contrasting magmatic conditions in the petrogenesis of A-type granites of Phenai Mata Igneous complex: implications for felsic magmatism in the Deccan large Igneous Province. *Journal of the Indian Institute of Science*, 98, 379-399.
 13. Hari, K. R., Swarnkar, V., & **Manu Prasanth, M. P.** (2018). Significance of assimilation and fractional crystallization (AFC) process in the generation of basaltic lava flows from Chhotaudepur area, Deccan Large Igneous Province, NW India. *Journal of Earth System Science*, 127(6), 85.
 14. Santosh, M., Hari, K. R., He, X. F., Han, Y. S., & **Manu Prasanth, M. P.** (2018). Oldest lamproites from Peninsular India track the onset of Paleoproterozoic plume-induced rifting and the birth of Large Igneous Province. *Gondwana Research*, 55, 1-20.
 15. Deshmukh, S. D., Hari, K. R., Diwan, P., & **Manu Prasanth, M. P.** (2018). Geochemical constraints on the tectonic setting of the sonakhan greenstone belt, Bastar craton, Central India. *Acta Geochimica*, 37, 489-499.
 16. **Manu Prasanth, M. P.**, Hari, K. R., Chalapathi Rao, N. V., Hou, G., & Pandit, D. (2018). An island-arc tectonic setting for the Neoproterozoic Sonakhan Greenstone Belt, Bastar Craton, Central India: Insights from the chromite mineral chemistry and geochemistry of the siliceous high-Mg basalts (SHMB). *Geological Journal*, 53(4), 1526-1542.
 17. Deshmukh, S. D., Hari, K. R., Diwan, P., & **Manu Prasanth, M. P.** (2017). Geochemistry and petrogenesis of felsic meta-volcanic rocks of Baghmara Formation, Sonakhan Greenstone Belt, Central India. *Journal of Geosciences Research*. 2(1), 69-74.
 18. S. D. Deshmukh, K. R. Hari, P. Diwan & **Manu Prasanth M. P.** (2017). Salient features of greenstone belts of India with special reference to Sonakhan greenstone belt, Central India. *SGAT Bulletin*, 18: 21-33.

SUBMITTED/UNDER REVIEW PUBLICATIONS

- Tanveer Haidar, **M.P. Manu Prasanth***, K. R. Hari, Neeraj Vishwakarma. (2024) Petrogenesis and tectonic significance of Kawardha lamproite dykes from the western Bastar craton, central India. **Geological Magazine** (under review).

PRESENTATIONS AT CONFERENCES AND SEMINARS

1. Shellnutt J.G., Yeh M-W., Lee TY., Iizuka Y., Chen WY., **M.P. Manu Prasanth**. Mantle heterogeneity beneath the Lutao-Lanyu volcanic ridge of the Northern Luzon Volcanic Arc. American Geophysical Union Fall Meeting 2023 (AGU23), San Francisco, California. 11 to 15 December 2023
2. **Manu Prasanth M.P.**, Kwan-Nang Pang, K.R. Hari, Bibhuti Bhusan Sahoo, Arathy Ravindran, Yoshiyuki Iizuka. Precambrian dyke swarms of Singhbhum craton record recycled crustal components in the mantle source. 6th International Archean Symposium, Fremantle, Perth, Western Australia. 25 to 27 July 2023.
3. **Manu Prasanth M.P.**, Kwan-Nang Pang. Petrogenetic significance of Eocene appinites and coeval alkaline syenites from Sardasht, Sanandaj–Sirjan Zone, NW Iran. 2023 Annual conference of Chinese Taipei Geophysical Society & Geological Society located in Taipei. 17th to 18th May 2023.
4. **Manu Prasanth M.P.**, Alora Sweta Sharma, Santosh M., Cheng-Xue Yang, Hari K.R. Insights into magma chamber processes on the evolution of mafic layered intrusions and coeval granites: A Paleoproterozoic example from Bastar Craton, India. Taiwan Geosciences Assembly. 2022.June 6th to 10th.
5. Shellnutt, J.G., Yeh, M.-W., Lee, T.-Y., Iizuka, Y., Chen, W.-Y., **Manu Prasanth, M.P.** Sub-arc mantle heterogeneity of the Taiwan portion of the northern Luzon volcanic arc. Taiwan Geosciences Assembly. 2022.June 6th to 10th.
6. Shellnutt, J. Gregory, **M.P. Manu Prasanth**. Modeling results for the composition and typology of non-primary Venusian anorthosite. AGU fall meeting, New Orleans, LA, 13-17 December 2021.
7. **Manu Prasanth M.P.**, J. Gregory Shellnutt, & Tung-Yi Lee. Supercontinent breakup mechanisms inferred from the thermal state of Large Igneous Provinces. Annual conference of geological society located in Taipei & Chinese Taipei geophysical society. Brave new world 2021.
8. **Manu Prasanth. M.P.**, Gregory Shellnutt J, Hari KR. Platinum-group element (PGE) geochemistry of Sonakhan greenstone belt of Bastar craton and its relations to the greenstone belts of eastern Dharwar craton. 109th Annual Meeting and Academic Symposium of the Geophysical Society of the Republic of China and the Geological Society of the Republic of China, The 14th Taiwan Quaternary Symposium Geoscience 2020: New horizon and beyond, 2020.
9. **Manu Prasanth. M.P.**, Gregory Shellnutt J, Hari KR. Platinum-Group Element Geochemistry of Boradiah Ultramafic Intrusion from the Sonakhan Greenstone Belt, Bastar Craton. Goldschmidt Abstracts, 2020. 1718.
10. **Manu Prasanth. M.P.**, K.R. Hari. Neoproterozoic arc magmatic imprints from the Sonakhan greenstone belt, Bastar craton, poster presentation in the National Seminar on

Dynamics of surface and subsurface Geological processes, organized by the Department of Earth sciences, Pondicherry University, February 8 and 9, 2018.

11. **Manu Prasanth. M.P.** Subduction initiation and arc magmatism: A Neoproterozoic vestige from the Sonakhan greenstone belt, Bastar craton, research paper presentation in the 16th Chhattisgarh Young Scientist Congress-2018, organized by Durg University, February 27 and 28, 2018.

INVITED LECTURES/TALKS

- Plate tectonics and igneous processes, National Taiwan Normal University, Linkou Campus, (New Taipei City, April 2022)
- Secular variations in the thermal regimes of continental large igneous provinces: Implications for the supercontinent cycle, Institute of Earth Sciences, Academia Sinica (Taipei, Taiwan, March 2022)