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Dr. Dinesh Pandit,
Assistant Professor (EPMA: Petrology/Geochemistry)
Department of Geology, Centre of Advanced Study
Institute of Science, Banaras Hindu University, Varanasi
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3. Institution: Department of Geology, Institute of Science,
Banaras Hindu University,
4. Date of Birth: 12/03/1978
5. Gender (M/F/T): Male
6. Category: General
7. Academic Qualification (Undergraduate Onwards)



	Degree	Year	Subject	University/Institution	% of marks
1.	B. Sc.	1999	Science	Utkal University	65%
2.	M. Sc.	2001	Geology	North Orissa University	73%
3.	Ph. D.	2009	Geology & Geophysics	IIT Kharagpur	Awarded

8. Work experience (in chronological order):

S. No.	Positions held	Name of the Institute	From	To
1	CSIR-JRF	IIT Kharagpur	01/2004	01/2006
2	CSIR-SRF	IIT Kharagpur	02/2006	01/2009
3	Research Associate	IIT Kharagpur	02/2009	09/2009
4	Research Associate	NGRI, Hyderabad	11/2009	11/2011
5	Research Scientist B	NCAOR, Goa	12/2011	04/2012
6	Project Scientist C	NCAOR, Goa	05/2012	03/2015
7	Research Scientist B	BHU, Varanasi	10/2015	09/2017
8	Assistant Professor	BHU, Varanasi	09/2017	continue

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No	Name of Award	Awarding Agency	Year
1	CSIR JRF (NET)	CSIR	2003
2	CSIR SRF	CSIR	2006
3	RA	NGRI	2009

Full List of Publications:

BHU Website: https://new.bhu.ac.in/Site/FacultyProfile/1_153?FA000166
Google Scholar: <https://scholar.google.co.in/citations?user=JQkRK2IAAAAJ&hl=en>.
ResearchGate: https://www.researchgate.net/profile/Dr_Dinesh_Pandit
ORCID Id: <https://orcid.org/0000-0003-1722-6586>.

Area of Specialization:

Teaching Interest: Ore Geology, Economic Geology
Research Interest: Ore Geology, Economic Geology, Mineralogy, Geochemistry,
Research Techniques: EPMA, SEM, XRD, XRF,
LA-ICP-MS, LA-MC-ICP-MS, LA(fs)-CGC-HR-IRMS
Subject of Research: Petrogenesis and Metallogeny

Administrative Experience:

1. Chief Scientist, RVA Nikolaj Strakhov (Russia), 12/01/2013 - 24/02/2013
2. Chief Scientist, ORV Sagar Kanya (India), 23/09/2013 – 18/10/2013

10. Publications (*List of papers published in SCI Journals, in year wise descending order*).

Lists of Journal Publications

1. **Pandit, D.** (2024) Characterization of Sulphide Ore Minerals Using Combined Laser Raman with Scanning Near-field Optical Microscopy (SNOM). Journal of Scientific Research, 68(3), 1-5. ISSN NO. 0447-9483. DOI: 10.37398/JSR.2024.680301.
2. Chauhan, H., **Pandit, D.**, Ahmad, T., Giri, R.K. and Pandey, A.C. (2023) Formation of manganoan ilmenite in Archean tonalite-trondhjemite-granodiorite (TTG) gneisses inferred from re-equilibration of biotite and Fe-Ti oxide assemblage: a case study from the Aravalli Craton, northwest India. Neues Jahrbuch für Mineralogie - Abhandlungen (Journal of Mineralogy and Geochemistry), 198, 171-190. doi: 10.1127/njma/2023/0371. ISSN NO. 0077-7757, IF: 0.625
3. Sajeev, R., **Pandit, D.** and Joshi, M. (2023) Chalcopyrite-Pyrite-Pyrrhotite Mineralization from Thanagazi Formation in Alwar Group, North Delhi Fold Belt, India. Journal of Scientific Research, 67, 18-23. ISSN NO. 0447-9483. DOI:10.37398/JSR.2023.670203
4. Misra, P.S., **Pandit, D.** and Saini, P. (2023) Raman microspectrometry of fluid inclusions from quartz veins of eastern Mahakoshal belt, Central India. Journal of Scientific Research, 67, 11-17. ISSN NO. 0447-9483. DOI: 10.37398/JSR.2023.670202
5. **Pandit, D.** (2022) Petrogenesis and Metallogenic of Intrusive Aplite Dyke from the Malanjkhanda Pluton, Central India. Petrology, 30, S140-S156. ISSN: 0869-5911, IF 1.303, 10.1134/S086959112301006X.
6. Misra, P.S., Khan, M.A., **Pandit, D.**, Gupta, S., Sahu, M., Murmu, A.K. and Niranjana, A. (2022) 'Scorodite' from Parsoi area, Mahakoshal belt, Central India: implication to gold mineralisation. Indian Journal of Geosciences, 76(4), 429-435. ISSN 2229 3574

7. Sajeev, R., **Pandit, D.** and Joshi, M. (2022) Geochemical evolution of dolomites in Thanagazi Formation of Mesoproterozoic Alwar Basin, Northwest India. *Journal Indian Association of Sedimentologists*, 39, 30-46. DOI: <https://doi.org/10.51710/jias.v39iII.256>. ISSN No. 2582-2020.
8. **Pandit, D.** (2022) Petrogenesis and Metallogenic Evolution of Leucogranites from Paleoproterozoic Malanjkhanda Pluton, Central India. *Journal of the Geological Society of India*, 98, 1633-1646. ISSN: 0974-6889, IF 1.459. <https://doi.org/10.1007/s12594-022-2231-7>.
9. **Pandit, D.** (2022) Thermodynamic stability of microcline in hydrothermal ore system of Malanjkhanda copper deposit, India. *Journal of International Academy of Physical Sciences*, 26(2), 199-210. ISSN 0974-9373
10. **Pandit, D.** (2022) Application of High-Resolution X-ray Diffractometry in Measurements of Residual Stress and Strain Rate on Deformed Quartz from Malanjkhanda Copper Deposit, India. *Journal of Scientific Research*, 66, 1-10. ISSN NO. 0447-9483
11. Misra, P. S., **Pandit, D.**, Murmu, A. K., Saleesh, P. N. and Salu, S. (2022) Bismuth-Telluride-Gold mineralisation from Parsoi area in eastern Mahakoshal belt, Sonbhadra district, UP, India. *Journal of Geological Society of India*, 98, 198-202. ISSN: 0974-6889. IF 1.459
12. Bhagat, S., Pandit, D., Srivastava, R.K. and Zakaualla, S. (2021) Chemical microprobe dating of thorianite in carbonatite from the Pakkanadu alkaline-carbonatite complex, Northern Granulite Terrain, Tamil Nadu, India. *EARFAM*, 29, 145-155. ISSN No. 0970-9231.
13. Kumar, D., **Pandit, D.** and Chalapathi Rao, N. V. (2021) Vanadium-bearing titaniferous-magnetite mineralization from the Simdega area, Chhotanagpur Gneissic Complex, Eastern India. *Current Science*, 120(5), 759-763. ISSN: 0011-3891, IF 1.102
14. Chauhan, H., Tripathi, A., **Pandit, D.** and Chalapathi Rao, N. V. (2020) A new Analytical Protocol for high precision U-Th-Pb Chemical Dating of Xenotime from the TTG Gneisses of the Bundelkhand Craton, Central India, using CAMECA SXFive Electron Probe Micro Analyzer. *Journal of Earth System Science*, 129, 210. <https://doi.org/10.1007/s12040-020-01482-1>. IF 1.423
15. **Pandit, D.**, Bhattacharya, S. and Panigrahi, M. K. (2019) Dissecting through the metallogenic potentials of older granitoids - case studies from Bastar and Eastern Dharwar cratons India Archean Granitoids of India: Windows into Early Earth Tectonics. *Archean Granitoids of India: Windows into Early Earth Tectonics*, Geological Society of London Special Publication, 489, 157-188. <https://doi.org/10.1144/SP489-2019-342>. ISSN 2041-4927, IF 3.8,
16. Sajeev, R., Choudhary, S., Konwar, P., Kulshrestha, S.K. and **Pandit, D.** (2019) Identification of hydrothermal alteration zones for base metal exploration adjoining to Mundiawas-Khera Copper prospect, Rajasthan, India using ASTER data. *Indian Journal of Geosciences*, 73(4), 331-342. ISSN 2229-3574
17. Dey, P., Ray, J. S., **Pandit, D.**, Koeberl, C., Ganguly, S., Chakraborty, S., Ghosh, M. and Ray, I. (2020) Petrogenetic aspects and role of liquid immiscibility from parts of Eastern Deccan volcanic province, India. *Geological Journal*, 55, 5619-5638. ISSN 1099-1034, IF 2.489,

18. Giri, R. K., Pankaj, P., Chalapathi Rao, N. V., Chakrabarti, R., **Pandit, D.** (2019) Petrogenesis of an alkaline lamprophyre (camptonite) with ocean island basalt (OIB)-affinity at the NW margin of the Cuddapah basin, eastern Dharwar craton, southern India. *Neues Jahrbuch für Mineralogie – Abhandlungen (Journal of Mineralogy and Geochemistry)*, 196/2, 149-177. ISSN 0077-7757, doi:10.1127/njma/2019/0179. IF 1.000
19. Pandey, R., Pandey, A., Chalapathi Rao, N.V., Belyatsky, B., Choudhary, A. K., Lehmann, B., **Pandit., D.** and Dhote, P. (2019) Petrogenesis of end-Cretaceous/Early Eocene lamprophyres from the Deccan Large Igneous Province: Constraints on plume-lithosphere interaction and the post-Deccan lithosphere-asthenosphere boundary (LAB) beneath NW India. *Lithos*, 346-347, 105-139. ISSN: 0024-4937. IF 3.913
20. Kumar, D., **Pandit, D.**, Sharma, A. and Chalapathi Rao, N. V. (2019) Boron measurement in tourmaline from the pegmatite veins, Simdega area, Chhotanagpur Gneissic Complex, Eastern India, using CAMECA-SXFive Electron Probe Micro Analyzer (EPMA). *Current Science*, 117(5), 858-865. ISSN: 0011-3891, IF 1.102
21. Elangovan, R., Ajay Dev Asokan, A. D., **Pandit, D.** and Ram Mohan, M (2019) Magma Chamber processes and geodynamic implications of the Pithora pluton, Bastar Craton, Central India. *Geological Journal*, 55(4), 2738-2759. ISSN 1099-1034, <https://doi.org/10.1002/gj.3534>; IF 2.489,
22. Sharma, A., Giri, R. K., Chalapathi Rao, N. V., Rahaman, W., **Pandit, D.** and Sahoo, S. (2019) Arc-related pyroxenites derived from a long-lived Neoproterozoic subduction system at the southwestern margin of the Cuddapah basin: geodynamic implications for the evolution of the Eastern Dharwar Craton, southern India. *Journal of Geology*, 127, 567-591. ISSN: 0022-1376, IF 2.015.
23. Raghuvanshi, S., Pandey, A., Pankaj, P., Chalapathi Rao., N. V., Chakrabarti, R., **Pandit, D.** and Pandey, R. (2019) Lithosphere–asthenosphere interaction and carbonatite metasomatism in the genesis of Mesoproterozoic shoshonitic lamprophyres at Korakkodu, Wajrakarur kimberlite field, Eastern Dharwar Craton, southern India. *Geological Journal*, 54(5), 3060-3077. ISSN 1099-1034, IF 2.489,
24. Pandey, M., **Pandit, D.**, Arora, D., Chalapathi Rao, N. V. and Pant, N. C. (2019) Analytical Protocol for U-Th-Pb chemical dating of monazite using CAMECA EPMA SX5 installed at the Deep Mantle Petrology Laboratory, Department of Geology, Banaras Hindu University, Varanasi, India. *Journal of Geological Society of India*, 93, 46-50. ISSN: 0974-6889. IF 1.459
25. **Pandit, D.** (2018) Crystallization evolution of accessory minerals in Paleoproterozoic granites of Bastar Craton, India. *Current Science*, 114 (11), 2329-2342. IF 1.102
26. Giri, R. K., Pankaj, P., **Pandit, D.**, Sahoo, S., Chakrabarti, R., Chalapathi Rao, N. V. (2018) Pyroxenite dykes with petrological and geochemical affinities to the Alaskan type ultramafics at the north-western margin of the Cuddapah basin, Dharwar craton, southern India: tectonomagmatic implications. *Journal of Earth System Science* 128: 114. <https://doi.org/10.1007/s12040-019-1153-2>. ISSN: 0253-4126. IF 1.423
27. Manu Prasanth, M. P., Hari, K. R., Chalapathi Rao, N. V., Hou, G., Tsunogae, T. and **Pandit D.** (2018) 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. ISSN 1099-1034, DOI: 10.1002/gj.3398. IF 2.489,

28. Sharma, A., Kumar, A., Pankaj, P., **Pandit, D.**, Chakrabarti, R. and Chalapathi Rao, N. V. (2018) Petrology and Sr-Nd isotope systematics of the Ahobil Kimberlite (Pipe-16) from the Wajrakarur field, Eastern Dharwar craton, southern India. *Geoscience Frontiers*, 10(3), 1167-1186. <https://doi.org/10.1016/j.gsf.2018.08.004>. IF 6.853
29. Talukdar, D., Pandey, A., Chalapathi Rao, N. V., Kumar, A., **Pandit, D.**, Lehmann, B. and Belyatsky, B. (2018) Petrology and geochemistry of Mesoproterozoic Vattikod lamproites from the Eastern Dharwar Craton, southern India: evidence from polychromous enrichment of sub-continental lithospheric mantle and links with amalgamation and break-up of Columbia supercontinent. *Contribution to Mineralogy and Petrology*, 173, 67. <https://doi.org/10.1007/s00410-018-1493-y> IF: 4.076.
30. Pandey, R., Sahoo, S., **Pandit, D.**, Pandey, M., and Chalapathi Rao, N. V. (2018) Recurrent lamprophyre magmatism in the Narmada rift zone: petrographic and mineral chemistry evidence from xenoliths in the Eocene Dongargaon lamprophyre, NW Deccan Large Igneous Province, India. *Journal of the Indian Institute of Science*, 98, 401-415. ISSN: 0970-4140, IF 1.742.
31. Pandey, R., Chalapathi Rao, N. V., Dhote, P., **Pandit, D.**, Choudhary, A. K., Sahoo, S. and Lehmann, B. (2018) Rift-associated ultramafic lamprophyre (damtjernite) from the middle part of the Lower Cretaceous (125 Ma) succession of Kutch, northwestern India: Tectonomagmatic implications. *Geoscience Frontiers*, 9, 1883-1902. doi: 10.1016/j.gsf.2017.10.013. ISSN 1674-9871, IF 6.853
32. Pandey, A., Chalapathi Rao, N. V., Chakrabarti, R., Pankaj, P., **Pandit, D.**, Pandey, R. and Sahoo, S. (2018) Post-collisional calc-alkaline lamprophyres from the Kadiri greenstone belt: evidence for the Neoarchean convergence- related evolution of the Eastern Dharwar Craton and its schist belts. *Lithos*, 320-321, 105-117. IF 3.913
33. Manu Prasanth, M. P., Hari, K. R., Chalapathi Rao., N. C., Guiting, H. and **Pandit, D.** (2018) An Island-arc tectonic setting for the Neo-Archean 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. ISSN 1099-1034, DOI: 10.1002/gj.2971, IF 2.489,
34. Kirubaharab, A. M. K., Kuppusami, P., Priya, R., Divakar, R., Gupta, M., **Pandit, D.** and Ningshen, S. (2018) Synthesis, microstructure and corrosion behavior of compositionally graded Ni-YSZ diffusion barrier coatings on Inconel-690 for high temperature environments. *Corrosion Science*, 135, 243-254. IF 7.205,
35. Sharma, A., Kumar, D., Sahoo, S., **Pandit, D.** and Chalapathi Rao, N. V. (2018) Chrome-diopside megacrysts lamprophyre from the Late Cretaceous Mundwara alkaline complex, NW India; petrological and geodynamic implications. *Journal of Geological Society of India*, 91, 395-399. ISSN: 0974-6889, IF 1.459
36. Giri, R. K., **Pandit, D.**, Chalapathi Rao, N. V. (2018) Cobaltoan pyrite in a lamprophyre from the Sidhi Gneissic Complex, Mahakoshal Belt, Central India. *Journal of Geological Society of India*, 91, 5-8. ISSN: 0974-6889, IF 1.459
37. Pandey, R., Chalapathi Rao, N. V., **Pandit, D.**, Sahoo, S. and Dhote, P. (2017) Imprints of modal metasomatism in the post-Deccan sub-continental lithospheric mantle: petrological evidence from the ultramafic xenoliths in an Eocene lamprophyre, NW India. *Geological Society of London Special Publication*, 463, 117-136. ISSN 2041-4927, doi.org/10.1144/SP463.6. IF 3.800

38. Pandey, A., Chalapathi Rao, N. V., Chakrabarti, R. **Pandit, D.**, Pankaj, P., Kumar, K. and Sahoo, S., (2017) Petrogenesis of a Mesoproterozoic shoshonitic lamprophyre dyke from the Wajrakarur kimberlite field, eastern Dharwar craton, southern India: geochemical and isotopic evidence for a modified sub-continental lithospheric mantle source. *Lithos*, 292-293, 218-233. ISSN: 0024-4937. IF 3.913
39. Pandey, A., Chalapathi Rao, N. V., **Pandit, D.**, Pankaj, P., Pandey, R., Sahoo, S. and Kumar, A. (2017) Subduction – Tectonics in the evolution of the eastern Dharwar craton, southern India: Insights from the post-collisional calc-alkaline lamprophyres at the western margin of the Cuddapah basin. *Precambrian Research*, 298, 235-251. ISSN 0301-9268, IF 4.725
40. Pandey, A., Pandey, R., **Pandit, D.**, Pankaj, P. and Chalapathi Rao, N. V. (2017) A note on the origin of clinopyroxene megacrysts from the Udiripikonda lamprophyre, Eastern Dharwar Craton, South India. *Journal of Indian Geophysical Union*, 21, 124-131. ISSN: 0257-7968, IF 0.313.
41. **Pandit, D.** (2015) Thermodynamic model for hydrothermal sulfide deposition in the Paleoproterozoic granite ore system at Malanjkhanda, India. *Indian Journal of Geo-Marine Sciences*, 44 (11), 1697-1711. IF 0.496.
42. **Pandit, D.** (2015) Geochemistry of feldspar intergrowth microtextures from Paleoproterozoic granitoids in Central India: implications to exsolution processes in granitic system. *Journal of the Geological Society of India*, 85, 163-182. IF 1.459
43. **Pandit, D.**, Panigrahi, M. K. and Moriyama, T. (2014) Constrains from magmatic and hydrothermal epidotes on crystallization of granitic magma and sulfide mineralization in Paleoproterozoic Malanjkhanda granitoid, Central India. *Chemie der Erde/Geochemistry*, 74, 715-733. IF 2.292
44. **Pandit, D.**, Panigrahi, M. K., Takeru Moriyama and Shunso Ishihara (2014) A comparative geochemical, magnetic susceptibility and fluid inclusion studies on the Paleoproterozoic Malanjkhanda and Dongargarh granitoids, Central India and implications to metallogeny. *Mineralogy and Petrology*, 108, 663-680. IF 1.708
45. **Pandit, D.** (2014) Chloritization in Paleoproterozoic granite ore system at Malanjkhanda, Central India: mineralogical studies and mineral fluid equilibria modeling. *Current Science*, 106, 565-581. IF 1.102
46. Panigrahi, M. K., **Pandit, D.**, Naik, R. K. and Ishihara, S. (2012) Reconstruction of physicochemical environment of hydrothermal mineralization at Malanjkhanda copper deposit, Central India: constraints from sulfur isotope ratios in pyrite, molybdenite and chalcopyrite. *Resource Geology*, 63, 110-116. IF 1.353
47. **Pandit, D.** (2012) Lattice preferred orientation analysis of deformed quartz using X-ray Texture Goniometry: an advanced application of High Resolution X-ray Diffractometer. *Journal of the Geological Society of India*, 79, 169-174. IF 1.459
48. **Pandit, D.** and Panigrahi, M. K. (2012) Comparative petrogenesis and tectonics of Paleoproterozoic Malanjkhanda and Dongargarh granitoids, Central India. *Journal of Asian Earth Sciences*, 50, 14-26. IF 3.449
49. Moriyama, T., Panigrahi, M. K., **Pandit, D.** and Watanabe, Y. (2008) Rare earth element enrichment in Late Archean manganese deposits from the Iron Ore Group, East India. *Resource Geology*, 58, 402-413. IF 1.353
50. Panigrahi, M. K., Naik, R. K., **Pandit, D.** and Misra, K. C. (2008) Reconstructing physico-chemical parameters of hydrothermal mineralization at the Malanjkhanda copper

deposit, India from mineral chemistry of biotite, chlorite and epidote. *Geochemical Journal*, 42, 443-460. IF 1.561

Research Papers in Book Chapters:

1. **Pandit, D.** (2021) Natural groundwater recharge processes in granitic system. In Singh, A. and Shrivastava, A. (Eds.), *Conference Proceedings International Virtual Conference on Ground Water (ICGW-2021)*, p 1-10. ISBN: 978-93-5526-771-9. Publisher Department of Geology, MLSU, Udaipur.
2. **Pandit, D., Chandrashekar, S., Chandrashekhar, R., Parthasarathi, C., Namratha, and Ramakrishna, T.** (2012) A geological field report on Nuggihalli-Holenarsipur schist belts. In Vidyadharan, K.T., Krishnamurthy, P. & Sawkar, R.H. (Eds.) *“Report on the training program on recent advances in chromite, nickel, copper-sulfide deposits and PGE associations with special reference to the Nuggihalli Schist Belt (NSB) and extension areas, Karnataka, India & Recommendation for future exploration strategies in NSB & other area of Karnataka”*, Geological Society of India, p 38-47.
3. Panigrahi, M. K., **Pandit, D.**, Moriyama, T. and Ishihara, S. (2009) Paleoproterozoic granite-ore systems in the perspective of crustal evolution: Insights from the Malanjkhanda copper deposit and surrounding granitoids in the Central India craton. In: P. J. William et al (Eds), *Smart Science for Exploration and Mining: Proceedings of the Society for Geology Applied to Mineral Deposits, Townsville Australia, 2*, 957-959.
4. Panigrahi, M. K., **Pandit, D.** and Naik, R. K. (2009) Genesis of the granitoid affiliated Paleoproterozoic copper-molybdenum deposit at Malanjkhanda: a review of status. In S. Kumar (Eds.) *Magmatism, Tectonism and Mineralization*, Macmillan Publisher India Ltd., p 265-292.

Conference Papers:

1. **Pandey, S., Kumar, S., Singh, A.K. and Pandit, D. (2025)** Assessment of Environmental Impact due to Mining Activities around Rohtas District in Bihar. International Conference on Environment and Sustainable Development (ICESD – 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University during February 3 to 6, 2025 at Varanasi, India, pp 223. DOI:10.5281/zenodo.14765095.
2. **Nagar, P.M. and Pandit, D. (2025)** Environmental Issues and Sustainable Development around Zawar Mining Areas in Udaipur district of Rajasthan. International Conference on Environment and Sustainable Development (ICESD – 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University during February 3 to 6, 2025 at Varanasi, India, pp 222. DOI:10.5281/zenodo.14765095.
3. **Singh, A. K. and Pandit, D. (2025)** Assessment of Environmental Impact of Sand Mining along Son River in Sonbhadra District of Uttar Pradesh. International Conference on Environment and Sustainable Development (ICESD – 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University during February 3 to 6, 2025 at Varanasi, India, pp 212. DOI:10.5281/zenodo.14765095.
4. **Kumar, S., Pandey, S., Singh, A.K. and Pandit, D. (2025)** Assessment of Environmental Impact of Floods in Ganga River around Ghazipur District in Uttar Pradesh. International Conference on Environment and Sustainable Development

- (ICESD – 2025) organised by Institute of Environment and Sustainable Development, Banaras Hindu University during February 3 to 6, 2025 at Varanasi, India, pp 123. DOI:10.5281/zenodo.14765095.
5. **Pandit, D. (2025)** EPMA and SEM characterization of the rare metals mineralization from Kolihan and Chandmari mines in Khetri Copper Belt, Northwestern India. International Conference on Mining, Minerals, Metals and Materials (IC4M 2025) organized by Council of Scientific & Industrial Research - Institute of Minerals and Materials Technology (CSIR-IMMT), during January 22 to 24, 2025 at Bhubaneswar, Odisha, India, pp 13.
 6. **Pandit, D. (2024)** Application of remote sensing technique in gold exploration along Mahakoshal Greenstone Belt, Central India. National Conference on Geosciences for Sustainable World (GSW-2024), Organized by Department of Geophysics, Institute of Science, Banaras Hindu University, during March 6 to 7, 2024 at Varanasi, India, GSW48633, pp 90.
 7. **Pandit, D. (2024)** Application of combined laser Raman with Scanning Near-field Optical Microscopy (SNOM) technique for characterization of sulphide ore minerals from Alwar Basin, Rajasthan. National Workshop on Quantum Technologies (NWQT-2024), Organized by Department of Physics, Institute of Science, Banaras Hindu University, during March 1 to 2, 2024 at Varanasi, India, pp 29-30.
 8. Misra, P.S., **Pandit, D.** and Saini, P. (2023) Origin of auriferous fluids in Mahakoshal Greenstone Belt, Central India. National Workshop on Earth Sciences in India: Challenges and Emerging Trends (ESICET-2023), Organized by Department of Earth Sciences, Indian Institute of Technology Roorkee, India during 27-29 December, 2023 at Roorkee, India, pp 34-36.
 9. Misra, P.S., **Pandit, D.** and Saini, P. (2023) Gold mineralization in Parsoi Formation of Mahakoshal Group, Central India. International Conference on Voyage of Sedimentology from the Mountains to the Oceans: An Innovative Trajectory, Organized by Department of Earth Sciences, Annamalai University, and Indian Association of Sedimentologists during 6-8 December, 2023 at Annamalai Nagar, Tamil Nadu, India, p xx.
 10. Misra, P.S., **Pandit, D.** and Saini, P. (2023) Laser Raman Microspectrometry Characterization of Ore Fluids from Mahakoshal Supracrustal Belt: Implications to Gold Mineralization. National Workshop on Geodynamics in Himalaya & Disaster Management, Organized by School of Earth & Environmental Sciences, Central University of Himachal Pradesh and Geological Society of India during 6-8 November, 2023, Dharamshala, Himachal Pradesh, India, pp 41.
 11. Sajeev, R., **Pandit, D.**, Joshi, M. and Das, S. (2023) Role of Hydrothermal Solution in Base Metal Enrichment in Alwar Basin, Rajasthan, India. International SEG Conference Resourcing the Green Transition (SEG 2023), organised by Society of Economic Geologists (USA) during August 26-29, 2023 at London, United Kingdom, Abstract No.: B-039, ID: 5389.
 12. Sajeev, R., **Pandit, D.**, Joshi, M. (2022) Base metal mineralization in volcano-sedimentary succession of Alwar basin, Rajasthan. 38th Convention of Indian Association of Sedimentologists & National conference on Current Understanding From

- Indian Sedimentary Basins and Road Ahead (IAS 2022), organised by Department of Geology, University of Delhi between 9th to 11th October, 2022, pp. 39.
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32. Choudhary, B. R., Xu, Y. G., Ernst, R. E. and **Pandit, D.** (2017) Ti-rich garnet core in spinel in a kimberlite: evidence for metasomatic origin. Goldschmidt Abstract, ID: 2017005877.
 33. Kumar, D., Sharma, A., Giri, R. K., Sahoo, S., Pandey, A., Pandey, R. and **Pandit, D.** (2017) Application of Electron Probe Micro Analyser (EPMA) in characterization of heavy minerals in Ganga river sediments. National Conference on Emerging Scenarios of Ganga, River Development & Water Resource Management, Banaras Hindu University, Varanasi, India, Feb to 28 March 1, 2017, p 6.
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44. Pandey, A., Chalapathi Rao, N. V., Pankaj. P., **Pandit, D.**, Sahoo, S. and Kumar, A. (2016) Subduction-related Paleoproterozoic (?) calc-alkaline lamprophyre magmatism towards the western margin of the Cuddapah basin: implication for the evolution of the Eastern Dharwar Craton, Southern India. Annual General Meeting of the Geological Society of India, IIT Kharagpur, India, 21-23 October 2016, p 321-323.
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51. **Pandit, D.**, Panigrahi, M. K. and Naik, R. K. (2008) Fluid characteristics in the leucogranite phase of the Malanjkhanda Granitoid Complex: implications to copper-molybdenum mineralization. Proceedings of Asian Current Research on Fluid Inclusions (ACROFI – 2), 144 – 146.

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53. Panigrahi, M. K. and **Pandit, D.** (2007) Genesis of the granitoid affiliated Paleoproterozoic Copper-Molybdenum Deposit at Malanjkhanda: A Review of Status. National seminar on Magmatism, Tectonism and Mineralization and X Annual Convention of South Asian Association of Economic Geologists (SAAEG), Kumaun University, Uttarakhand, India, 117 – 118.
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Patents filed/granted

1. Singh, S.K., Rengma, K. and **Pandit, D.** (2024) Implications of the ore deposit using ore petrography and mineral chemistry of magnetite. Patent Application Publication, Application No. 202431053763 A, The Patent Office Journal No. 29/2024 Dated 19/07/2024, page 63176.

Any other Information (maximum 500 words)

Instrumental Proficiency:

- Thin section preparation, wafers preparation for fluid inclusion studies, and petrographic
Studies of igneous rocks & ore minerals (*Buehler IsoMet 4000 & PetroThin*)
- Optical Transmitted cum Reflected Microscope (*Leica DM4500 Model*),
- Linkam Hot – Cold Stage Microthermometry (*Linkam 600G Model*),
- Laser Raman Spectroscopy (*LRM Rainshow Model*),
- Micro Fourier Transform Infra Red Spectroscopy (*MicroFTIR Varian 3100 Model*),
- FieldSpec Ground Spectroradiometer (*Analytical Spectral Devices, FieldSpec Model*)
- X-ray Florescence Spectrometry (*XRF Philips Model, Brucker Model*),
- Atomic Absorption Spectrometry
- High Resolution X-ray Diffractometer (*HR-XRD PANalytical X'pert Pro*)
- High Resolution Scanning Electron Microscope (*HR SEM Zenith Model*),
- LA-(MS)-MC-ICP-MS (*Nu Plasma HR Model*),
- LA-ICP-MS (*Cetac 213+Varian 600; Thermo Fisher Model*),
- Electron Probe Micro Analyzer (*CAMECA SX100 Model*),
- Electron Probe Micro Analyzer (*CAMECA SXFive Model*),

Terrestrial Geological Field Experiences:

- **Pandit, D. (1999)** *Geological field report on Nomira pillow lava and Nayagarh – Jagdala sandstone in Keonjhar district, Orissa*. Report submitted for the degree of Bachelor of Science to Barbil College, Barbil, Utkal University (dated 17/05/1999).
- **Pandit, D. (2000)** *Geological mapping around Rangamati near Parsala in Keonjhar district, Orissa*. Report submitted for the degree of Master of Science (1st year) to Dharanidhar College, Keonjhar, North Orissa University (dated 09/09/2000).
- **Pandit, D. (2001)** *Field report on pyrophyllite deposits around Anjor, Keonjhar district, Orissa*. Report submitted for the degree of Master of Science (2nd year) to Dharanidhar College, Keonjhar, North Orissa University (dated 17/10/2001).
- **Pandit, D. (2008)** *A Comparative Study of the Paleoproterozoic Malanjkhanda and Dongargarh Granitoids, Central India: Implications to Crustal Evolution and Metallogeny*. Thesis submitted for the degree of Doctor of Philosophy in Geology and Geophysics, Indian Institute of Technology Kharagpur, India (dated 15/09/2008).
- **Pandit, D. (2013)** Cruise Report “Hydrothermal Mineralization” RV Akademik Nikolaj Strakhov Cruise No 29 Leg 4 (12th January – 24th February, 2013) submitted to National Centre for Antarctic & Ocean Research, Ministry of Earth Sciences, Government of India.
- **Pandit, D. (2013)** Cruise Report “Exclusive Economic Zone of India” ORV Sagar Kanya Cruise No SK-305 (23rd September – 18th October 2013) submitted to National Centre for Antarctic & Ocean Research, Ministry of Earth Sciences, Government of India.

Geophysical Experiences:

- Reflection Spectroscopy: Characterization of mineral deposits, mineral mapping;
- Bathymetric and topographic modeling of seafloor using Satellite altimetry data (GEBCO & TOPEX),
- Multibeam Eco-Sounder Survey: ResonBat 7150; SeaBeam 3012, 2 to 12 kHz
- Sub-Bottom Profiler: GeoPlus 5430A Transmitter & Receiver, 2 to 12 kHz
- Marine Magnetic Survey: G-882 Marine Magnetometer, SeaSPY, 20,000 to 100,000 nT
- Marine Gravity Survey: CHEKEN-AM
- Gravity modeling using Satellite derived Bouguer gravity data
- Oceanographic Survey: SBE 19 Plus V2 CTD, SeaCAT SVP
- Seawater column sampling along the vertical profile with conductivity, temperature, and pressure measurements,
- Deep Seabed-Underwater video-graphic & photographic survey using ROSU6000 (MoES-NIOT),

Marine Geological & Geophysical Surveys Experiences:

- **ORV Sagar Kanya Cruise SK-293:** Project Scientist, *Hydrothermal Mineralization Programme*, marine survey in the Arabian Sea from date 11/04/2012 to 16/04/2012
- **ORV Sagar Kanya Cruise SK-294:** Project Scientist, *Hydrothermal Mineralization Programme*, marine survey in the Arabian Sea and Bay of Bengal within the Indian territorial seawater (Mormugao Port, Goa to Chennai Port, Tamil Nadu) from date 12/06/2012 to 23/06/2012.
- **ORV Sagar Kanya Cruise SK-299:** Project Scientist, *Hydrothermal Mineralization Programme*, Multi Beam Echo-Sounder survey along the Central Indian Ridge in Indian Ocean, deep seawater column sampling using CTD instruments during 02/10/2012 to 03/11/2012,
- **RV ANS 29, Leg 3:** Project Scientist, *Hydrothermal Mineralization Programme*, Rock and sediment sampling from deep seafloor using dredging techniques around Central India Ridge in Indian Ocean during 09/12/2012 to 12/01/2013.
- **RV ANS 29, Leg 4:** Chief Scientist, *Hydrothermal Mineralization Programme*, rock and sediment sampling from deep seafloor using dredging techniques around Central India Ridge in Indian Ocean during 15/01/2013 to 24/02/2013.
- **ORV Sagar Nidhi:** Project Scientist, *Hydrothermal Mineralization Programme*, Remotely Operating Submersible (ROSUB-ROV) surveys for exploration of polymetallic sulphide mineralization in Indian Ocean during 20/04/2013 to 23/05/2013,
- **ORV Sagar Kanya Cruise SK-305:** Chief Scientist, *Exclusive Economic Zone (EEZ) Programme*, "Multi Beam Echo-Sounder survey in the EEZ of India" near Laksha Dweep in Arabian Sea, during 09/12/2012 to 12/01/2013.

Professional Activities

Life Member of Indian Science Congress Association (L15226) 2009
Life Member of Indian Society of Applied Geochemists (LM 594) 2019
Member of Geological Society of India (F-3557) 2021
Life Member Indian Association of Sedimentologists (LM 251) 2022
Life Member The Palaeontological Society of India 2023
Life Member (LF/2495/771/2023) Indian Social Science Academy 2023
Life Time Membership (LTSS 506/2023) Wadia Institute of Himalayan Geology 2023
Life Member of Geological Society of India [F-3557 (L-2027)] 2024
Life Member of Indian Society of Remote Sensing (L-6341) 2024
