

• **Papers published in refereed journals**

a. International Journals

2023

1. Ganguli S S and **Pal SK** 2023. Gravity-magnetic appraisal of the southern part of Cauvery Basin, Eastern Continental Margin of India (ECMI): An evidence of volcanic rifted margin. **Frontiers in Earth Science**. Volume 11. doi: 10.3389/feart.2023.1190106. **Impact Factor 3.661. Q2**
2. Bharti A K, Singh S.K, **Pal S K**, Singh K K K, Prakash A, Bhattacharjee R, Kumar L. 2023. Electrical resistivity tomography technique coupled with numerical modelling: A case study for stability analysis. **Geophysical Prospecting**. <https://doi.org/10.1111/1365-2478.13382>. **Impact Factor 2.6. Q2**
3. Agrawal A., Gupta Ravindra K, Shams R. and **S. K. Pal 2023** Seismic Site Response Study of Dhanbad City (India) Using Equivalent Linear Analysis Complemented by Horizontal-to-Vertical Spectral Ratios. *Environmental Earth Sciences*. volume 82, Article number: 291 (2023). **Impact Factor 2.8. Q2**
4. Narayan, S., Sahoo, S.D., Kar, S., **Pal, S.K.**, Kangsabanik, S., **2023** Improved reservoir characterization by means of the supervised machine learning and model-based seismic impedance inversion in the Penobscot field, Scotian Basin. *Energy Geoscience* (2023), doi: <https://doi.org/10.1016/j.engeos.2023.100180>.
5. Yadav M, **Pal SK**, Singh P.K, and Gupta N. **2023**. Landslide Susceptibility Zonation Mapping Using Frequency Ratio, Information Value Model, and Logistic Regression Model: A Case Study of Kohima District in Nagaland, India. https://doi.org/10.1007/978-3-031-23859-8_17.
6. Kumar, R., Prajapati, S.K., **Pal, S. K.**, and Mishra, O. P.: Seismotectonics of the northeast Indian region based on GPS velocities, stress and strain rate field characterization, EGU General Assembly **2023**, Vienna, Austria, 24–28 Apr 2023, EGU23-11133, <https://doi.org/10.5194/egusphere-egu23-11133>, 2023.
7. Chouhan, A. K., Choudhury P. and **Pal, S. K.**, **2023**. Sedimentary thickness and upper crustal structure of the north Cambay rift, India deduced from gravity data: new evidence of pre-trappean sediments. **Journal of Geological Society of India**. Ms. No. JGSI-D-22-00077R1 **Impact Factor 1.3. Q4**

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8. Narayan, S., Sahoo, S.D., Pal, SK., and Kumar U., 2022 *Comparative evaluation of five global gravity models over a part of the Bay of Bengal*. **Advances in Space Research**. (In press) **Impact Factor 2.611. Q3**.
9. Sahoo, S.D., Narayan, S. and Pal, SK., 2022 Appraisal of gravity-based lineaments around Central Indian Ridge (CIR) in different geological periods: Evidence of frequent ridge jumps in the southern block of CIR. *Journal of Asian Earth Sciences*, 239, 105393. <https://doi.org/10.1016/j.jseaes.2022.105393>. **Impact Factor: 3.374, Q2**
10. Sahoo, S.D., Narayan, S. and Pal, SK., 2022 Fractal analysis of lineaments using CryoSat-2 and Jason-1 satellite gravity data: evidence of a uniform tectonic activity over the middle part of the Central Indian Ridge. **Physics and Chemistry of the Earth, Parts A/B/C**. **Impact Factor: 3.7, Q2**
11. Sarkar P., Mondal S., Pal, SK., Roy, P.N.S., Sahoo, S.D., Widyadwatmaja, A., Gupta, S., Gupta, A., 2022. New insights on the tectonic framework using EIGEN6C4 gravity data, seismicity, and finite element stress analysis: An attempt to map earthquake vulnerable zones in parts of North-East India and surroundings. **Physics and Chemistry of the Earth, Parts A/B/C**. *Volume 127*, October 2022, 103195. <https://doi.org/10.1016/j.pce.2022.103195>. **Impact Factor: 3.7, Q2**
12. Ekka **M S**, Sahoo S. D., **Pal SK**, Roy P.N.S. and Mishra O. P. (2022) Comparative analysis of the structural pattern over the Indian Ocean Basins using EIGEN6C4 Bouguer gravity data. **Geocarto International**, DOI: [10.1080/10106049.2022.2087748](https://doi.org/10.1080/10106049.2022.2087748). **Impact Factor 3.8 Q2**

13. Ganguli S S, Mondal S., **Pal SK**, Lakshamana, M. and Mahender S. 2022 Combined analysis of Remote sensing, Gravity and Magnetic data across Moyar Bhavani Shear Zone, Southern Granulite Terrain (SGT), India: Appraisals for crustal architecture and tectonics. **Geocarto International**. DOI: [10.1080/10106049.2022.2086627](https://doi.org/10.1080/10106049.2022.2086627). **Impact Factor 3.8 Q2**
14. Sahoo S. D. and **Pal SK**, 2022 The mantle temperature corrected gravimetric Moho using SGG-UGM-2 gravity data: An evidence of asymmetric distribution of thin and thick crust along the Central Indian Ridge (3°S – 16°S). **Marine Geophysical Research** **43**, 24. <https://doi.org/10.1007/s11001-022-09481-1>. **Impact Factor 2.5, Q3**
15. Raj Kumar, Sanjay Kumar Prajapati and **Pal SK**, 2022 Determination of focal depths of moderate earthquakes in North-East Indian region using depth phase sPn. **Natural Hazards**. <https://doi.org/10.1007/s11069-022-05396-7>. **Impact Factor 3.158. Q2**
16. Mondal S., Guha A., and **Pal SK**, 2022 Support vector machine-based integration of AVIRIS NG hyperspectral and ground geophysical data for identifying potential zones for chromite exploration – a study in Tamil Nadu, India. **Advances in Space Research**. <https://doi.org/10.1016/j.asr.2022.04.048>. **Impact Factor 2.611. Q1**
17. Gupta, N., **Pal, S.K.**, and Das, J.D., 2022. GIS-based evolution and comparisons of landslide susceptibility mapping of the East Sikkim Himalaya. **Annals of GIS**. <https://doi.org/10.1080/19475683.2022.2040587>.

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18. Hajra S, Hazarika D, Mondal S, Pal SK, Roy PNS (2021) Deformation of the upper crust in the Kumaon Himalaya analyzed from seismic anisotropy and gravity lineament studies. *Physics of the Earth and Planetary Interiors*, 322, 106827. <https://doi.org/10.1016/j.pepi.2021.106827>. **Impact Factor : 2.748 Q2.**
19. Mondal S., Guha A., **Pal SK**, 2021 Comparative analysis of AVIRIS-NG and Landsat-8 OLI data for lithological mapping in parts of Sittampundi layered complex, Tamil Nadu, India. **Advances in Space Research**. 69 (1), 1408-1426. <https://doi.org/10.1016/j.asr.2021.11.001>. **Impact Factor 2.611. Q3**
20. Yadav D.N., Kumar N., Babu G. V., Kumari R., **Pal S. K.** 2021 Crustal velocity structure and seismotectonics of the Kinnaur region of northwest Himalaya: new constraints based on recent micro-earthquake data. **Journal of Asian Earth Sciences**. <https://doi.org/10.1016/j.jseaes.2021.105005>. **Impact Factor 3.449, Q2.**
21. Kannaujia S., Yadav R.K., Champati ray P.K., Sarkar T., Sharma G., Chauhan P., **Pal S. K.**, Roy P.N.S., Gautam P., Taloor A.K., Yadav A. Unraveling seismic hazard by estimating prolonged crustal strain buildup in Kumaun-Garhwal, Northwest Himalaya using GPS data measurements. *Journal of Asian Earth Sciences*. <https://doi.org/10.1016/j.jseaes.2021.104993>. **Impact Factor 3.449, Q2.**
22. Sathiyaseelan Rajesh, Pappachen P. J., Gautam P.K., **Pal S.K.** 2021 Crustal velocity and interseismic strain-rate on possible zones for large earthquakes in the Garhwal-Kumaun Himalaya. **Scientific Reports**. <https://doi.org/10.1038/s41598-021-00484-3>. **Impact Factor 4.996 Q2**
23. Narayan S. Kumar U., **Pal S. K.**, Sahoo S. D. 2021. New insights into the structural and tectonic settings of the Bay of Bengal using high-resolution earth gravity model data. **Acta Geophysica**. 10.1007/s11600-021-00657-8. **Impact Factor 2.293, Q3.**
24. Gupta S. K., Roy P. N.S. and **Pal S. K.** 2021. Scale invariance behaviour for pre and post-2015 Nepal Gorkha earthquake GPS time series based on fractal analysis. *Chaos, Solitons and Fractals* **152 (2021) 111341. Q1. Impact Factor 9.922 Q1**
25. Gupta R K, Agrawal M, **Pal, SK**, Das MK 2021, Seismic site characterization and site response study of Nirsa (India). **Nat Hazards**. <https://doi.org/10.1007/s11069-021-04767-w>. **Impact Factor 4.6. Q2**

26. Jotheeshwar Velayudham, Kannaujiya S., Sarkar T., Champati Ray P K., Taloor Ajay K., Singh Bisht M P, Chawla S., **Pal S. K.** Comprehensive study on evaluation of Kaliasaur landslide attributes in Garhwal Himalaya by the execution of geospatial, geotechnical and geophysical methods. **Quaternary Science Advances**, <https://doi.org/10.1016/j.qsa.2021.100025>. **Impact Factor 4.456, Q1**
27. Hajra S., Hazarika D., Kumar N., **Pal S. K.**, Roy P. N. S. 2021. Seismotectonics and stress perspective of the Kumaon Himalaya: A geophysical evidence of a Lesser Himalayan duplex. **Tectonophysics** 806, 228801. doi.org/10.1016/j.tecto.2021.22880. **Impact Factor 3.66, Q2**
28. Sharma J, Kumar M, Singha Roy K, Pal S. K., Roy P. N. S. 2021. Low Velocity Zones and Negative Radial Anisotropy Beneath the Plume Perturbed Northwestern Deccan Volcanic Province. **Journal of Geophysical Research - Solid Earth**. doi:10.1029/2020JB020295. **Impact Factor 4.39, Q1**
29. Ganguli SS, **Pal SK**, Sundaralingam K, and Kumar P, 2021. Insights into the crustal architecture from combined analysis of gravity and magnetic data across Salem Attur Shear Zone (SASZ), Southern Granulite Terrane (SGT), India: An evidence of accretional tectonics. **Episodes Journal of International Geoscience**. doi:10.18814/epiiugs/2020/020095. **Impact Factor 2.439, Q3**
30. Sahoo SD, and **Pal SK**. 2021. Crustal Structure and Moho topography of the southern part (18° S - 25° S) of central Indian ridge using high-resolution EIGEN6C4 global gravity model data. **Geo-Marine Letters**, 41(3), doi:10.1007/s00367-020-00679-z. **Impact Factor 2.267, Q3**
31. Kumar R., Pal S. K. and Gupta P. K. 2021 Water Seepage Mapping in an Underground Coal-Mine Barrier Using Self-potential and Electrical Resistivity Tomography. *Journal of Mine Water and the Environment* 40(3), pp.622-638. <https://doi.org/10.1007/s10230-021-00788-w>. **Impact Factor 2.688, Q3**

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32. Kumar U, Satya Narayan and **S. K. Pal**, 2020. Structural and tectonic interpretation of EGM2008 gravity data around the Laccadive ridge in the Western Indian Ocean: An implication to continental crust. **Geocarto International**, <https://doi.org/10.1080/10106049.2020.1856193>. **Impact Factor: 3.45, Q2.**
33. Ganguli S S, Pal SK, Singh SL, Rama Rao JV, and Balakrishna B. 2020. Insights into crustal architecture and tectonics across Palghat Cauvery Shear Zone, India from combined analysis of gravity and magnetic data. **Geological Journal**, 55(12):1–19. <https://doi.org/10.1002/gj.4041>. **Impact factor: 2.128 Q3**
34. Horo Dharmita, Pal Sanjit Kumar, and Singh Sahendra 2020. Mapping of gold mineralization in Ichadih, North Sighbhum Mobile Belt, India using Electrical Resistivity Tomography and self-potential methods. **Mining, Metallurgy & Exploration**. DOI: 10.1007/s42461-020-00340-4. **Impact Factor: 1.695, Q3**
35. Srivastava S., Pal S K and Kumar Rajwardhan, A time-lapse study using Self-Potential and Electrical Resistivity Tomography methods for mapping of old mine working across railway-tracks in a part of Raniganj Coalfield, India. *Environmental Earth Sciences*, 79:332. <https://doi.org/10.1007/s12665-020-09067-3>. **Impact Factor: 3.119, Q2**
36. Kannaujiya S., Philip G., Champati Ray P. K., **Pal S. K.**, Taloor A. K., 2020 Integrated Geophysical Techniques for Subsurface Imaging of Active Deformation across the Himalayan Frontal Thrust in Singhauli, Kala Amb, India., <https://doi.org/10.1016/j.quaint.2020.05.003>. **Quaternary International. Impact Factor: 2.454, Q3**
37. Kannaujiya S., Gautam P. K. R., Champati Ray P. K., Chauhan P., Roy P.N.S, **Pal S. K.**, Taloor A. K., 2020 Contribution of seasonal hydrological loading in the variation of seismicity and geodetic deformation in Garhwal region of Northwest Himalaya.

Quaternary International, <https://doi.org/10.1016/j.quaint.2020.04.049>. **Impact Factor: 2.457, Q3.**

38. Kumar S, **Pal SK**, Guha A, Sahoo SD, Mukherjee A. 2020. New insights on Kimberlite emplacement around the Bundelkhand Craton using integrated satellite-based remote sensing, gravity, and magnetic data. *Geocarto Int.* 37(4). <https://doi.org/10.1080/10106049.2020.1756459>. **Impact factor : 3.45, Q2.**
39. Sarkar P, Roy P. N. S, **Pal S K** 2020 Rejuvenation of “pop-up” Tectonics for Shillong Plateau in N-E Himalayan Region. *Journal of Earth System Science*, 129:123 <https://doi.org/10.1007/s12040-020-01389-x>. **Impact factor : 1.912, Q3.**
40. Kumar Sarvesh, **Pal S.K.**, Rani S., Saurabh 2020 GPR data interpretation using Continuous Wavelet Transform: A different approach. *Current Science*, 118. **Impact factor : 1.169, Q3.**
41. **Pal S.K.**, Vaish J. (2020) Coal Fire Study Over East Basuria Colliery. In: Biswas A., Sharma S. (eds) *Advances in Modeling and Interpretation in Near Surface Geophysics*. Springer Geophysics. Springer, Cham. doi.org/10.1007/978-3-030-28909-6_11. pp 295-334.
42. Kumar S. and **Pal S.K.**, 2020 Underground coalfire mapping using analysis of self-potential (SP) data collected from Akashkinaree Colliery, Jharia coalfield, India. *Journal of Geological Society of India*, **95(4) 333-438. Impact Factor :1.466, Q4.**
43. Kumar Sarvesh, **Pal Sanjit Kumar** and Guha Arindam 2020 Very low Frequency electromagnetic (VLF-EM) study over Wajrakarur kimberlite Pipe 6 in Eastern Dharwar Craton, India. *Journal of Earth System Science*. 129: 102 (2020). <https://doi.org/10.1007/s12040-020-1367-3>. **Impact factor : 1.912, Q3.**
44. Horo Dharmita, **Pal Sanjit Kumar**, Singh Sahendra and Saurabh, 2020 Combined self-potential, electrical resistivity tomography and induced polarisation for mapping of gold prospective zones over a part of Babaikundi-Birgaon Axis, North Singhbhum Mobile Belt, India. *Exploration Geophysics*, 51(1), 507-522. doi.org/10.1080/08123985.2020.1722026. **Impact factor: 1.026, Q4**
45. Chouhan, A. K., Singh D., **Pal, SK** and Choudhury P. 2020 Delineation of subsurface geological fractures in the Cambay rift and surrounding regions of NW India: an integrated approach using satellite derived EIGEN-6C4 gravity data. *Geocarto International*. <https://doi.org/10.1080/10106049.2020.1716395>. **Impact factor: 3.8, Q2.**
46. Ganguli, S. S., **Pal, S.K.**, Rama Rao, J. V., and Sunder Raj, B. (2020). Gravity-magnetic appraisal at the interface of Cuddapah Basin and Nellore Schist Belt (NSB) for shallow crustal architecture and tectonic settings. *Journal of Earth System Science* **129**, 92, doi.org/10.1007/s12040-020-1354-8. **Impact factor : 1.912, Q3.**
47. Chouhan, Avinash Kumar, Choudhury Pallabee and **Pal, Sanjit Kumar** 2020, New evidence for a thin crust and magmatic underplating beneath the Cambay rift basin, Western India through modelling of EIGEN-6C4 gravity data. *Journal of Earth System Science*, 129 64, doi:10.1007/s12040-019-1335-y. **Impact factor : 1.912, Q3.**

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49. **Rani K**, Guha A, Pal S K, Vinod Kumar K 2019 Potential use of ASTER derived emissivity, thermal inertia and albedo image for geological mapping – a study for Aravalli Group of Rocks, Rajasthan, *Journal of Geological Society of India*. **94**, 583–589. **Impact Factor : 1.466, Q4.**

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55. Gupta R K, Agrawal M, **Pal S K**, Kumar R, Srivastava S, (2019) Site characterization through combined analysis of seismic and electrical resistivity data at a site of Dhanbad, Jharkhand, India. **Environmental Earth Sciences 78 (6), 226.** <https://doi.org/10.1007/s12665-019-8231-2>. **Impact Factor: 3.119, Q2**
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57. Ganguli S. S., Singh S., Das N., Maurya D., Pal S.K., and Rama Rao J. V. 2019. Gravity and magnetic survey in south western part of Cuddapah Basin, India and its implication for shallow crustal architecture and mineralization. **Journal of Geological Society of India 93(4) 419-430. Impact Factor : 1.466, Q4.**
58. Bharti, A.K., **S. K. Pal**, Saurabh, K. K. K. Singh, P. K. Singh, Amar Prakash, R. K. Tiwary, **2019** Groundwater prospecting by inversion of cumulative data of Wenner-Schlumberger and Dipole-Dipole arrays: A case study at Turamdih, Jharkhand, India. **Journal of Earth System Science, 128(4), 107. Impact factor : 1.912, Q3.**
59. Rani K, Guha A, Subhendu M, Pal S K, Vinod Kumar K (2019) ASTER multispectral bands, ground magnetic data, ground spectroscopy and space-based EIGEN6C4 gravity data model for identifying potential zones for gold sulphide mineralization in Bhukia, Rajasthan, India **Journal of Applied Geophysics. 160, 28-46.** <http://dx.doi.org/10.1016/j.jappgeo.2018.10.00>, **Impact factor: 1.845, Q2**

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62. Rani K, Guha A, Pal SK, Kumar KV 2018 Broadband reflectance, emittance spectroscopy and self-potential geophysical survey for targeting gold sulphide lode deposit in Bhukia, Rajasthan, India, **Geocarto International**, 35(1),93-112. **Impact factor: 3.8, Q2**
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