

**Geology and Geophysics Faculty Publication List in ISI Journals from September 2020
to present**

1. Abdelfattah, A.K., Al-amri, A., Abdelrahman, K., Fnais, M. and Qaysi, S., 2021. Attenuation relationships of peak ground motions in the Jazan Region. *Arabian Journal of Geosciences*, 14(3), pp.1-9. **Q4 GPY**
2. Abdelfattah, A.K., Jallouli, C., Qaysi, S. and Al-Qadasi, B., 2020. Crustal Stress in the Northern Red Sea Region as Inferred from Seismic b-values, Seismic Moment Release, Focal Mechanisms, Gravity, Magnetic, and Heat Flow Data. *Surveys in Geophysics*, 41(5), pp.963-986. **Q1 GPY**
3. Abdelrahman, K., Al-Amri, A.M., Fnais, M.S., Qaysi, S., Abdelfattah, A.K. and Al-Otaibi, N., 2021. Site effect and microzonation of the Jizan coastal area, southwestern Saudi Arabia, for earthquake hazard assessment based on the geotechnical borehole data. *Arabian Journal of Geosciences*, 14(8), pp.1-19. **Q4 GPY**
4. Abdelrahman, K., Al-Otaibi, N. and Ibrahim, E., 2021. Assessment of land subsidence as an environmental threat facing Dammam city, eastern Saudi Arabia based on soil geotechnical parameters using downhole seismic approach. *Journal of King Saud University-Science*, 33(1), p.101233. **Q2 GPY**
5. Abdelrahman, K., Al-Otaibi, N. and Ibrahim, E., 2021. Environmental hazard assessment for ground failure in Jeddah city, western Saudi Arabia, through cross-hole seismic testing. *Journal of King Saud University-Science*, 33(1), p.101274. **Q2 GPY**
6. Abdelrahman, K., Ibrahim, E., Qaysi, S., Mogren, S., Zaidi, F. and Ghrefat, H., 2021. Evaluation of kinetic moduli and soil competence scale of soil profiles in Jizan area, southwestern Saudi Arabia. *Arabian Journal of Geosciences*, 14(3), pp.1-19. **Q4 GPY/GEO**
7. Abuamarah, B.A. and Nabawy, B.S., 2021. A proposed classification for the reservoir quality assessment of hydrocarbon-bearing sandstone and carbonate reservoirs: A correlative study based on different assessment petrophysical procedures. *Journal of Natural Gas Science and Engineering*, 88, p.103807. **Q2 GEO**
8. Abuamarah, B.A., Azer, M.K., Asimow, P.D. and Shi, Q., 2021. Petrogenesis of the post-collisional rare-metal-bearing Ad-Dayheen granite intrusion, Central Arabian Shield. *Lithos*, 384, p.105956. **Q2 GEO**
9. Abuamarah, B.A., Azer, M.K., Asimow, P.D. and Shi, Q., 2021. Petrogenesis of the post-collisional rare-metal-bearing Ad-Dayheen granite intrusion, Central Arabian Shield. *Lithos*, 384, p.105956. **Q2 GEO**
10. Abuamarah, B.A., Azer, M.K., Asimow, P.D. and Shi, Q., 2021. Post-collisional volcanism with adakitic signatures in the Arabian-Nubian Shield: A case study of calc-alkaline Dokhan volcanics in the Eastern Desert of Egypt. *Lithos*, 388, p.106051. **Q2 GEO**
11. Ahmed, N., Siddiqui, N.A., Rahman, A.H., Jamil, M., Usman, M., Sajid, Z. and Zaidi, F.K., 2021. Evaluation of hydrocarbon source rock potential: deep marine shales of Belaga

- Formation of late Cretaceous-late Eocene, Sarawak, Malaysia. *Journal of King Saud University-Science*, 33(1), p.101268. **Q2 GEO**
12. Al-Arifi, N., El-Din, G.K., Abdelkareem, M. and Abdalla, F., 2021. Integration of remote-sensing, structural, and geochemical data for characterizing granitoid rocks in Um Naggat pluton, Central Eastern Desert, Egypt. *Arabian Journal of Geosciences*, 14(1), pp.1-22. **Q4 GPY**
 13. Alfaifi, H., El-Sorogy, A.S., Qaysi, S., Kahal, A., Almadani, S., Alshehri, F. and Zaidi, F.K., 2021. Evaluation of heavy metal contamination and groundwater quality along the Red Sea coast, southern Saudi Arabia. *Marine Pollution Bulletin*, 163, p.111975. **Q2 GPY/GEO**
 14. Al-Gain, M., Abdelrahman, K., Kahal, A., Al-Zahrani, S., Ibrahim, E. and Al-Otaibi, N., 2020. Impact of 5D regularization and interpolation on subsurface imaging: A case study of Stratton field, South Texas, United States of America. *Journal of King Saud University-Science*, 32(6), pp.2733-2740. **Q2 GEO/GPY**
 15. Ali, G., Hafez, A.G., Said, E.S.S.A., Abdelrahman, K., Ibrahim, E. and Alotaibi, N., 2021. Relationship between precursory signals and corresponding earthquakes using different spectral analysis techniques. *Journal of King Saud University-Science*, 33(2), p.101338. **Q2 GPY**
 16. Ali, S.M., Abdelrahman, K. and Al-Otaibi, N., 2021. Tectonic stress regime and stress patterns from the inversion of earthquake focal mechanisms in NW Himalaya and surrounding regions. *Journal of King Saud University-Science*, 33(2), p.101351. **Q2 GPY**
 17. Al-Johi, A., Ibrahim, E., Mogren, S. and Lashin, A., 2020. Petrophysical analysis of Upper Qishn Clastic Member Reservoir, Tawila Oilfield, Yemen. *Arabian Journal of Geosciences*, 13(21), pp.1-31. **Q4 GPY**
 18. Almadani, S.A., Abdelrahman, K. and Qaysi, S., 2021. Integrated geoinvestigation for evaluation of an engineering site—a case study from the western Riyadh city, central Saudi Arabia. *Arabian Journal of Geosciences*, 14(5), pp.1-12. **Q4 GPY**
 19. Almajed, A., Aldhowian, A. and Abdelrahman, K., 2021. Geological and geotechnical evaluation of limestone rocks along the Riyadh Metro Project (Riyadh City, Saudi Arabia). *Arabian Journal of Geosciences*, 14(2), pp.1-15. **Q4 GPY**
 20. AlSalhi, M.S., Masilamani, V., Alarifi, N., Farooq, W.A., Atif, M., Ramay, S., Althobaiti, H.S., Anwar, S., Elkhedr, I. and Abuamarah, B.A., 2021. Elemental composition and physical characteristics of the massive meteorite of the Saudi empty quarter. *Journal of King Saud University-Science*, 33(2), p.101341. **Q2 GPY/GEO**
 21. Alshehri, F., Almadani, S., El-Sorogy, A.S., Alwaqdan, E., Alfaifi, H.J. and Alharbi, T., 2021. Influence of seawater intrusion and heavy metals contamination on groundwater quality, Red Sea coast, Saudi Arabia. *Marine Pollution Bulletin*, 165, p.112094. **Q2 GPY/GEO**
 22. Anbazhagan, P., Joo, M.R., Rashid, M.M. and Al-Arifi, N.S., 2021. Prediction of different depth amplifications of deep soil sites for potential scenario earthquakes. *Natural Hazards*, pp.1-29. **Q2 GPY**

23. Andreae, M.O., Al-Amri, A., Andreae, C.M., Guagnin, M., Jochum, K.P., Stoll, B. and Weis, U., 2020. Archaeometric studies on the petroglyphs and rock varnish at Kilwa and Sakaka, northern Saudi Arabia. *Arabian Archaeology and Epigraphy*, 31(2), pp.219-244. **GPY**
24. El Khrepy, S., Koulakov, I., Gerya, T., Al-Arifi, N., Alajmi, M.S. and Qadrouh, A.N., 2021. Transition from continental rifting to oceanic spreading in the northern Red Sea area. *Scientific reports*, 11(1), pp.1-7. **Q1 GPY**
25. El Waheidi, M.M., Ghrefat, H., Qaysi, S., Batayneh, A.T., Russo, G., Jallouli, C., Badhris, O., Maeshi, T., Elawadhi, E.A. and Bahkali, I., 2021. Hydrogeophysical Characterization of the Coastal Aquifer System in the Northeast Gulf of Aqaba (Saudi Arabia): An Investigation in the Context of Groundwater Resources Management. *Journal of Coastal Research*, 37(1), pp.41-51. **Q4 GEP/GPY**
26. El-Sorogy, A.S. and Youssef, M., 2021. Pollution assessment of the Red Sea-Gulf of Aqaba seawater, northwest Saudi Arabia. *Environmental Monitoring and Assessment*, 193(3), pp.1-10. **Q3 GEO**
27. El-Sorogy, A.S., Youssef, M. and Al-Kahtany, K., 2021. Evaluation of coastal sediments for heavy metal contamination, Yanbu area, Red Sea coast, Saudi Arabia. *Marine Pollution Bulletin*, 163, p.111966. **Q2 GEO**
28. El-Sorogy, A.S., Youssef, M. and Al-Malky, M., 2020. Late Pleistocene reef fauna from the Red Sea coast, Northwest Saudi Arabia. *Historical Biology*, 32(7), pp.996-1009. **Q2 GEO**
29. Galmed, M.A., Amarah, B.A., Ghrefat, H.A. and Al-Zahrani, A.A., 2021. Petrology of oolitic ironstones of Ashumaysi Formation of Wadi Fatima, western Arabian Shield, Saudi Arabia. *Journal of King Saud University-Science*, 33(1), p.101266. **Q2 GEO**
30. Ghrefat, H., Kahal, A.Y., Abdelrahman, K., Alfaifi, H.J. and Qaysi, S., 2021. Utilization of multispectral landsat-8 remote sensing data for lithological mapping of southwestern Saudi Arabia. *Journal of King Saud University-Science*, p.101414. **Q2 GEO/GPY**
31. Hakimi, M.H., Abas, A.N., Hadad, Y.T., Al Faifi, H.J., Kinawy, M. and Lashin, A., 2021. Bulk pyrolysis and biomarker fingerprints of Late Cretaceous Galhak Shale Formation in the northern Melut Basin, Sudan: implications on lacustrine oil-source rock. *Arabian Journal of Geosciences*, 14(6), pp.1-17. **Q4 GEO**
32. Hakimi, M.H., Ahmed, A., Kahal, A.Y., Hersi, O.S., Al Faifi, H.J. and Qaysi, S., 2020. Organic geochemistry and basin modeling of Late Cretaceous Harshiyat Formation in the onshore and offshore basins in Yemen: Implications for effective source rock potential and hydrocarbon generation. *Marine and Petroleum Geology*, 122, p.104701. **Q1 GEO/GPY**
33. Hakimi, M.H., Ahmed, A., Mogren, S., Shah, S.B.A., Kinawy, M.M. and Lashin, A.A., 2020. Thermogenic gas generation from organic-rich shales in the southeastern Say'un-Masila Basin, Yemen as demonstrated by geochemistry, organic petrology, and basin modeling. *Journal of Petroleum Science and Engineering*, 192, p.107322. **Q1 GPY**
34. Howari, F.M. and Ghrefat, H., 2021. Geographic information system: spatial data structures, models, and case studies. In *Pollution Assessment for Sustainable*

- Practices in Applied Sciences and Engineering (pp. 165-198). Butterworth-Heinemann. **GEO**
35. Howari, F.M., Ghrefat, H., Nazzal, Y., Galmed, M.A., Abdelghany, O., Fowler, A.R. and Sharma, M., 2020. Delineation of Copper Mineralization Zones at Wadi Ham, Northern Oman Mountains, United Arab Emirates Using Multispectral Landsat 8 (OLI) Data. *Frontiers in Earth Science*, 8, p.417. **GEO**
 36. Hussein, H., Abd El-Raouf, A., Almadani, S., Abdelrahman, K., Ibrahim, E. and Osman, O.M., 2021. Application of geochemical modeling using NETPATH and water quality index for assessing the groundwater geochemistry in the south Wadi El-Farigh area, Egypt. *Journal of King Saud University-Science*, 33(2), p.101284. **Q2 GPY**
 37. Ibrahim, E., Abd El-Motaal, E., Lashin, A., Alfaifi, H., Qaysi, S. and Kahal, A., 2021. Faulting intersections and magma-feeding zones in Tihamat-asir, Southeast red sea rift: Aeromagnetic and structural perspective. *Journal of African Earth Sciences*, 173, p.104044. **Q3 GEO/GPY**
 38. Kahal, A.Y., Abdelrahman, K., Alfaifi, H.J. and Yahya, M.M., 2021. Landslide hazard assessment of the Neom promising city, northwestern Saudi Arabia: An integrated approach. *Journal of King Saud University-Science*, 33(2), p.101279. **Q2 GEO/GPY**
 39. Kahal, A.Y., Alfaifi, H.J., Abdelrahman, K. and Zaidi, F.K., 2021. Physio-chemical properties of groundwater and their environmental hazardous impact: Case study of Southwestern Saudi Arabia. *Journal of King Saud University-Science*, 33(2), p.101292. **Q2 GEO/GPY**
 40. Mogren, S., 2021. Geo-hazard assessment of the NEOM area, Northwest Saudi Arabia, using seismological and potential field data. *Arabian Journal of Geosciences*, 14(2), pp.1-12. **Q4 GPY**
 41. Mohamed, A.M.O., Howari, F.M., Ghrefat, H. and Paleologos, E.K., 2021. Site investigation. In *Pollution Assessment for Sustainable Practices in Applied Sciences and Engineering* (pp. 289-354). Butterworth-Heinemann. **GEO**
 42. Mukhopadhyay, M., Mukhopadhyay, B., Elawadi, E., Venkatesh, K.D. and Al-Arifi, N., 2021. Crustal structure beneath the volcanic field in the Tihamat Plains, Saudi Arabia: An integrated model constrained by gravity modelling and receiver function results. *Journal of Asian Earth Sciences*, 206, p.104614. **Q2 GEO**
 43. Nabawy, B.S., Ibrahim, E., Kahal, A., Alfaifi, H.J. and Lashin, A.A., 2020. Impact of authigenic iron oxides, clay content and grain size on the aquifer quality properties of the Cambrian-Ordovician Wajid Sandstone, southwest Saudi Arabia. *Journal of African Earth Sciences*, 172, p.104000. **Q4 GEO/GPY**
 44. Otter, L.M., Macholdt, D.S., Jochum, K.P., Stoll, B., Weis, U., Weber, B., Scholz, D., Haug, G.H., Al-Amri, A.M. and Andrae, M.O., 2020. Geochemical insights into the relationship of rock varnish and adjacent mineral dust fractions. *Chemical Geology*, 551, p.119775. **Q2 GPY**
 45. Pyle, M.L., Gök, R., Al-Amri, A., El-Hussain, I. and Al-Rawahi, Y., 2020. Seismic monitoring and high-frequency noise using arrays in the Arabian Peninsula. *Arabian Journal of Geosciences*, 13(19), pp.1-8. **Q4 GPY**

46. Qaysi, S., Alzahrani, H. and Abdelrahman, K., 2021. Seismic hazard assessment for the proposed site of electric power plant: Comprehensive approach. *Journal of King Saud University-Science*, 33(3), p.101360. **Q2 GPY**
47. Rabie, E., Hafez, A.G., Saad, O.M., El-Sayed, A.H.M., Abdelrahman, K. and Al-Otaibi, N., 2021. Geomagnetic micro-pulsation automatic detection via deep learning approach guided with discrete wavelet transform. *Journal of King Saud University-Science*, 33(1), p.101263. **Q2 GPY**
48. Saada, S.A., Eldosouky, A.M., Al-Otaibi, N., Ibrahim, E. and Ibrahim, A., 2021. New insights into the contribution of gravity data for mapping the lithospheric architecture. *Journal of King Saud University-Science*, p.101400. **Q2 GPY**
49. Sahour, H., Vazifedan, M. and Alshehri, F., 2020. Aridity trends in the Middle East and adjacent areas. *Theoretical and Applied Climatology*, 142(3), pp.1039-1054. **Q2 GEO**
50. Saleh, M.M., El-Sorogy, A.S., Youssef, M. and Al-Kahtany, K., 2021. Evaluation of geoenvironmental hazards at Qasr Al-Farid tomb, Mada'in Saleh, northwestern Saudi Arabia. *Arabian Journal of Geosciences*, 14(1), pp.1-14. **Q4 GEO**
51. Salman, A., Al-Tayib, M., Hag-Elsafi, S., Zaidi, F.K. and Al-Duwarij, N., 2021. Spatiotemporal Assessment of Air Quality and Heat Island Effect Due to Industrial Activities and Urbanization in Southern Riyadh, Saudi Arabia. *Applied Sciences*, 11(5), p.2107. **Q2 GEO**
52. Shi, X., Al-Arifi, N., Abdelkareem, M. and Abdalla, F., 2020. Application of remote sensing and GIS techniques for exploring potential areas of hydrothermal mineralization in the central Eastern Desert of Egypt. *Journal of Taibah University for Science*, 14(1), pp.1421-1432. **GPY**
53. Siyar, S.M., Zafar, M., Jahandad, S., Khan, T., Ali, F., Ahmad, S., Fnais, M.S., Abdelrahman, K. and Ansari, M.J., 2021. Hydrocarbon generation potential of Chichali Formation, Kohat Basin, Pakistan: A case study. *Journal of King Saud University-Science*, 33(1), p.101235. **Q2 GPY**
54. Thakur, T.K., Patel, D.K., Dutta, J., Kumar, A., Kaushik, S., Bijalwan, A., Fnais, M.S., Abdelrahman, K. and Ansari, M.J., 2021. Assessment of decadal land use dynamics of upper catchment area of Narmada River, the lifeline of Central India. *Journal of King Saud University-Science*, 33(2), p.101322. **Q2 GPY**
55. Youssef, M., El-Sorogy, A., Al-Kahtany, K. and Saleh, M., 2021. Benthic Foraminifera as Bio-indicators of Coastal Marine Environmental Contamination in the Red Sea-Gulf of Aqaba, Saudi Arabia. *Bulletin of Environmental Contamination and Toxicology*, pp.1-11. **Q3 GPY**