

List of Publications (Prof. Dr. Pervez Khalid)

- Khalid P., Raza I., Ehsan M.I., (2024) Delineation of Shale Gas Play from Non-Pay Zones Using Elastic and Mechanical Properties of Organic-Rich Shales, Southern Punjab Platform, Pakistan. Jour. Geol. Soc. India (2024) 100 (6): 863–872, <https://doi.org/10.17491/jgsi/2024/173916> (Impact Factor = 1.495).
- Raza I., Khalid P., Ehsan M.I., Ahmad Q.A., Khurram S., Zainab R., Farooq S. (2024) Geospatial interpolation and hydro-geochemical characterization of alluvial aquifers in the Thal Desert, Punjab, Pakistan. PLOSE ONE, 19(8): 1 – 26, <https://doi.org/10.1371/journal.pone.0307025> (Impact Factor = 2.9).
- Raza I., Khalid P., Ahmad Q.A., Muhammad S., Ehsan M.I., Farooq B, Qureshi J. (2024) Integrated study of quaternary aquifer for hydrostratigraphy and groundwater quality assessment in central Thal Doab, Punjab, Pakistan. PLOSE ONE, 19(6): 1 – 26, <https://doi.org/10.1371/journal.pone.0302442> (Impact Factor = 2.9).
- Arif K., Khalid P. (2023) Hydrostratigraphy and hydrogeophysical studies to delineate fresh and saline aquifer boundaries in Lesser Cholistan of Pakistan. PLOSE ONE, 18(10): 1 – 16, <https://doi.org/10.1371/journal.pone.0292035> (Impact Factor = 2.9).
- Khalid P., Farid A., Naseer M.T., Yasin Q., Naseem S. (2023) Seismic stratigraphy and attributes application for imaging a Lower Cretaceous deltaic system: Sukkur rift zone, Lower Indus Basin, Pakistan. Marine and Petroleum Geology, 149: 106030 doi.org/10.1016/j.marpetgeo.2022.106030.
- Naseer M.T., Naseem S., Khalid R.H., Shah M.A., Khalid P. (2023) Delineation of stratigraphic traps within the basin floor fans of Miocene sedimentary sequences, offshore Indus, Pakistan using inverted acoustic impedance simulations. Geological Journal 58(2): 722–739, <https://doi.org/10.1002/gj.4620>.
- Muhammad S., Ehsan M.I., and Khalid P., Sheikh A. (2023) Hydrogeophysical modeling and physio-chemical analysis of quaternary aquifer in central part of Bari Doab, Punjab, Pakistan. Modeling Earth Systems and Environment 9:1427–1443, (Impact Factor = 3.0) <https://doi.org/10.1007/s40808-022-01552-x>.
- Muhammad, S., Khalid, P., Ehsan, M.I. *et al.* (2023) Evaluation of aquifer parameters through integrated approach of geophysical investigations, pumping test analysis and Dar-Zarrouk parameters in the central part of Bari Doab, Punjab, Pakistan. Environ Monit Assess 195, 1435. <https://doi.org/10.1007/s10661-023-12049-0>
- Muhammad S., Khalid P., Ehsan M.I. (2022) Spatial appraisal of aquifer characterization through hydrogeophysical investigations in central part of Bari Doab, Punjab, Pakistan. Environ Monit Assess (2022) 194:922 Vol.: (0123456789) <https://doi.org/10.1007/s10661-022-10645-0>.
- Muhammad S., Ehsan M.I., and Khalid P. (2022) Optimizing exploration of quality groundwater through geophysical investigations in district Pakpattan, Punjab, Pakistan. Arabian Journal of Geosciences 15: 1 – 15 (Impact Factor = 1.827).

- Khurram S., and Khalid P. (2022) Statistical analysis of earthquake catalogue and magnitude of completeness for Northern and Southwestern Pakistan Acta Geodyn. Geomater. 19(1): 23–34 (Impact Factor = 1.176).
- Khalid P., Arshad M., Ehsan M.I., Ahmad A., and Khurram S. (2021) Effect of reservoir heterogeneities on elastic and seismic properties of Lower Cretaceous Sand Intervals, Lower Indus Basin of Pakistan. Acta Geodynamica et Geomaterialia 18(4): 451–45 (Impact Factor = 1.176).
- Ullah H., Khalid P., Mehmood M., Mashwani S.A., Abbasi Z., Khan M.J., Haq E., Shah G.M. (2021) Reservoir Potential, Net pay zone and 3D modeling of Cretaceous Pab Formation in Eastern Sulaiman Range Pakistan. Iranian Journal of Earth Sciences 13(3): 173 – 180 (Impact Factor = 0.81).
- Ehsan M.I., Zhao Y.H., Khalid P., Azeem T., Akram N., Akram S., Ali S., Xu A., and Qia Z. (2021) An improved Rock Physics Modeling approach to estimate attenuation and dispersion for three phase medium to delineate methane hydrates reserves. Himalayan Geology 42(2): 256 – 262 (Impact Factor = 1.293).
- Naseer M.T., Asim S., Khalid P., and Khalid H. (2021) Spectral decomposition application for appraisal of Miocene lowstand prograding wedge play, Indus Offshore, Pakistan: Implications for petroleum exploration. Marine and Petroleum Geology 131: 1 – 16, Paper ID: 105142, <https://doi.org/10.1016/j.marpetgeo.2021.105142> (Impact Factor = 5.361).
- Khurram S., Khalid P. (2021) Source Characteristics of Earthquake 24 Sep 2019 and Their Consequences. International Journal of Earth Sciences Knowledge and Applications.
- Ahmed N., Ahmad M., Khan K.A., Weibull W.W., and Khalid P. (2021) AVA-anisotropy: spreadsheets program to model the variation of P-wave reflectivity with angle in VTI, HTI, and orthorhombic media. Arabian Journal of Geosciences 14:875. <https://doi.org/10.1007/s12517-021-07028-z> (Impact Factor = 1.327).
- Khalid P., Ehsan I., Khurram S., Metwaly M. (2021) Mechanical and Elastic Characterization of Shale Gas Play in Upper Indus Basin, Pakistan. Arabian Journal for Science and Engineering 46(6): 5767 – 5781 <https://doi.org/10.1007/s13369-020-05275-y> (Impact Factor = 2.334).
- Yasin Q., Sohail G.M., Khalid P., Baklouti S., Du Q. (2021) Application of machine learning tool to predict the porosity of clastic depositional system, Indus Basin, Pakistan Journal of Petroleum Science and Engineering 197(2):107975 <https://doi.org/10.1016/j.petrol.2020.107975> (Impact Factor = 4.346).
- Yasin Q., Baklouti S., Khalid P., Ali S.H., Boateng C.D., Du Q. (2021). Evaluation of Shale Gas Reservoirs in Complex Structural Enclosures: A case study from Patala Formation in the Kohat-Potwar Plateau, Pakistan. Journal of Petroleum Science and Engineering 198:108225 <https://doi.org/10.1016/j.petrol.2020.108225> (Impact Factor = 4.346)
- Khurram S., Khalid P., Qureshi J., and Din Z.U. (2021) An Assessment of Seismic Hazard of Roller Compacted Concrete Dam Site in Gilgit-Baltistan of Northern

Pakistan. *Earthquake Engineering and Engineering Vibration*, 20(3): 621 – 630 <https://doi.org/10.1007/s11803-021-2042-7> (Impact Factor = 2.81).

- Khalid P., Khurram S., and Raza Z. (2020). Hypocenter relocation and velocity model for major earthquakes in northwest Himalaya. *Arabian Journal of Geosciences* 13:1240. <https://doi.org/10.1007/s12517-020-06184-y> (Impact Factor = 1.327).
- Khurram S., Khalid P., Din U., Ali A., and Bahija A. (2020). Integrated Study of Geotechnical and Geophysical methods to assess the Soil Corrosion Potential for Construction Site. *International Journal of Economic and Environmental Geology* 11(3): 79-85.
- Ahmed N., Ali S.H., Ahmad M., Khalid P., Ahmad B., Akram M.S., Farooq S., and Din Z.U. (2020) Subsurface structural investigation based on seismic data of the north-eastern Potwar basin, Pakistan. *Indian Journal of Geo-Marine Sciences* 49 (07), 1258–1268 (Impact Factor = 0.553).
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