

Journals

1. Lijith, K. P., Rao, R. S., Singh, D. N. (2024). "Detection of formation & dissociation of CO₂ gas hydrates in fine-sands through acoustic waves". *Fuel*, 357, <https://doi.org/10.1016/j.fuel.2023.129802>.
2. Lijith, K. P., Sharma, V., and Singh, D. N. (2022). "Shear strength Characteristics of Frozen Fine-sands under Direct Shear Testing Conditions". *International Journal of Geomechanics*, 22, 04021268. DOI: 10.1061/(ASCE)GM.1943-5622.0002228.
3. Lijith, K. P., Malagar, B. R. C., and Singh, D. N. (2019). "A comprehensive review on the geomechanical properties of gas hydrate bearing sediments." *Marine and Petroleum Geology*, 104, 270–285. <https://doi.org/10.1016/j.marpetgeo.2019.03.024>.
4. Lijith, K. P., Rao, R. S., Singh, D. N. (2022) "Investigations on the influence of wellbore configuration and permeability anisotropy on the gas production from a turbidite hydrate reservoir of KG Basin". *Fuel*, 317(7), <https://doi.org/10.1016/j.fuel.2022.123562>.
5. Lijith, K. P., Sharma, V., and Singh, D. N. (2021). "A methodology to establish freezing characteristics of partially saturated sands." *Cold Regions Science and Technology*, 189, 103333. <https://doi.org/10.1016/j.coldregions.2021.103333>.
6. Lijith, K. P., Goli V. S. N. S., Yadav, R., and Singh, M. R. (2024). "Provenance studies on ancient mud mortar, plasters and floor soils of India's Raigad hill fort." *Microchemical Journal*, 199, 110223. <https://doi.org/10.1016/j.microc.2024.110223>.
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8. Lijith, K. P., and Singh, D. N. (2024). "Unveiling the realm of thermo-hydro-mechanical characteristics of gas hydrate bearing sediments." *Journal of Marine Environmental Engineering*, 11, 277-302. DOI: 10.32908/JMEE.v11.2022090101a.
9. Malagar, B. R. C., Lijith, K. P., and Singh, D. N. (2019). "Formation & dissociation of methane gas hydrates in sediments: A critical review". *Journal of Natural Gas Science and Engineering*, 65, 168–184. <https://doi.org/10.1016/j.jngse.2019.03.005>.
10. Sharma, V., Lijith, K. P., and Singh, D. N. (2022). "Methodology to Determine Thermal Properties of Soils in Cold Regions from Heat-Pulse Migration Characteristics". *International Journal of Geomechanics*, [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002538](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002538).
11. Chen, L., Feng, Y., Merey, S., Lijith, K. P., Singh, D. N., Komiya, A., and Maruyama, S. (2020). "Numerical investigation on gas production from Shenhu (China): Influence of layer inclination and horizontal inhomogeneities." *Journal of Natural Gas Science and Engineering*, 82, 103509. <https://doi.org/10.1016/j.jngse.2020.103509>.
12. Feng, Y., Chen, L., Merey, S., Lijith, K. P., Singh, D. N., Komiya, A., and Maruyama, S. (2023). "Simulation of gas production from hydrate reservoirs (AT1) of Eastern Nankai Trough Japan." *Environmental Geotechnics*, ICE Publishing, 10 (3), 176-185. <https://doi.org/10.1680/jenge.19.00177>.

Conference Proceedings

1. Lijith, K. P., Sharma, V., and Singh, D. N. (2021). "Investigations on the Influence of Ice-Content on Shear Strength Characteristics of Soils." *Challenges and Innovations in Geomechanics*, M. Barla, A. Di Donna, and D. Sterpi, eds., Springer International Publishing, Cham, 911–916.
2. Motlagh, A. H., Lijith, K. P., and Priest, J. P. (2024). "Geomechanical Behaviour of Fine-grained Sediments Under Ko Consolidation in a Triaxial Cell." *Proceedings of the GeoMontreal*.
3. Kumar, J. S., Kalyan, N. S. S. P., Lijith, K. P., and Kandasami, R. K. (2024). "Investigations on Particle Migration During Suspension Injection Through Porous Medium Using X-Ray CT." *Geomechanics from Micro to Macro. IS-Grenoble 2024*, Grenoble, France.
4. Shashikala, A. P., Anilkumar, P. M., Joseph, G., John, J., and Lijith, K. P. (2015). "Experimental Investigations on Use of Rubber Concrete in Railway Sleepers", 2nd Raikar Memorial International Conference. International Symposium on Advances in Science & Technology of Concrete.
5. Anilkumar, P. M., Joseph, G., Lijith, K. P., John, J., Shashikala, A. P. (2015). "Investigations on Tensile Behaviour of Rubberised High Strength Concrete", International Conference on Sustainable Energy and Built Environment.
6. Anilkumar, P. M., Shashikala, A. P., Joseph, G., Lijith, K. P., John, J. (2015). "Behaviour of Rubberised High Strength Concrete Under Impact Loads", National Conference on Technological Innovations for Sustainable Infrastructure. National Institute of Technology, Calicut.

PATENTS

1. Singh, D. N., and Lijith, K. P. "DetFroSS: A test setup for determining frozen soil shear strength". Indian Patent No. 526044. Status: Granted on 14 March 2024.
2. Singh, D. N., Lijith, K. P., and Vikas Sharma "System and method for establishing soil freezing characteristic curve". Indian Patent No. 543601. Status: Granted on 28 Jun 2024.