

## Publications in Referred Journals

### Referred Journal Papers (Recent First)

- Madhurima Mazumder, Abinash Bal, **Ashutosh Tripathy**, Shiqi Liu, TN Singh, 2024, Multiscale Assessment of Transformation in Pore System of Shale during Combustion: An Insight into Poromechanical Response and Sorption Dynamics, *Energy & Fuels*, 38 (18), p. 17510-17524.
- BM Behera, **Ashutosh Tripathy**, TK Biswal, 2022, Strength enhanced by pseudotachylite melt in fault zone rocks during post-seismic melting: A case study from the Gangavalli fault zone, southern India, *Journal of Earth System Science*, Vol 131, Issue 207.
- Qiujia Hu, Liu Shiqi, Shuxun Sang, Huihuang Fang, **Ashutosh Tripathy**, Ling Yan, Mengfu Qin, Chonghao Mao, Numerical Analysis of Drainage rate for Multilayer Drainage Coalbed Methane Well Group in Southern Qinshui Basin, *Energy Exploration & Exploitation*, Vol 38, Issue 5, p 1535-1558, 2020.
- Vinoth Srinivasan, **Ashutosh Tripathy**, Tushar Gupta, T.N. Singh, An investigation on the influence of thermal damage on the physical, mechanical and acoustic behavior of Indian Gondwana Shale, *Rock Mechanics and Rock Engineering*, Vol 53, Issue 6, p 2865-2885, 2020.
- Shiqi Liu, Huihuang Fang, Shuxun Sang, **Ashutosh Tripathy**, Jianguang Wu, Shouren Zhang, Bing Zhang, CO<sub>2</sub> injectability and CH<sub>4</sub> recovery of the engineering test in Qinshui Basin, China based on numerical simulation, *International Journal of Greenhouse Gas Control*, 95, 102980, 2020.
- **Ashutosh Tripathy**, Vinoth Srinivasan, T. N. Singh, Fractal Analysis and Spatial Disposition of porosity in major Indian Gas Shales using Low-Pressure Gas Adsorption and advanced Image Segmentation, *Journal of Natural Gas Science and Engineering*, Vol 72, 103009, 2019.
- **Ashutosh Tripathy**, Vinoth Srinivasan, T. N. Singh, A Comparative Study on the Pore Size Distribution of Different Indian Shale Gas Reservoirs for Gas Production and Potential CO<sub>2</sub> Sequestration, *Energy & Fuels*, 32 (3), p. 3322–3334, 2018.
- Jagadish Kundu, Kripamoy Sarkar, **A Tripathy**, TN Singh, Qualitative stability assessment of cut slopes along the National Highway-05 around Jhakri area, Himachal Pradesh, India, *Journal of Earth System Science*, 126: 112, 2017.
- Debanjan Guha Roy, **Ashutosh Tripathy**, TN Singh, Effect of different wall roughness on the frictional behavior of rock joints, *Journal of Geological Society of India*, Vol 89, Issue 3, p. 303-306, 2017.
- Bankim Mahanta, **A Tripathy**, V Vishal, TN Singh, PG Ranjith, Effects of strain rate on fracture toughness and energy release rate of gas shales, *Engineering Geology*, Vol 218, p. 39-49, 2017.
- N Madhubabu, P.K. Singh, Ashutosh Kainthola, Bankim Mahanta, **A Tripathy**, TN Singh, Prediction of compressive strength and elastic modulus of carbonate rocks, *Measurement*, Vol 88, p. 202-213, 2016.
- P.K. Singh, **A Tripathy**, Ashutosh Kainthola, Bankim Mahanta, TN Singh, Indirect estimation of compressive and shear strength from simple Index tests. *Engineering with Computers*, Vol 33, Issue 1, p.1-11, 2016.
- **A Tripathy**, TN Singh, Jagadish Kundu, Prediction of abrasiveness index of some Indian rocks using soft computing methods, *Measurement*, Vol 68, p. 302-309, 2015.

## **Publications in Conference Proceedings**

### **Conference Proceedings and Extended Abstracts**

- **Ashutosh Tripathy**, Vinoth Srinivasan, TN Singh, 2018, Pore Characterization of Cambay Shale Using Low-pressure Gas Adsorption and MIP Analysis, *80th EAGE Conference and Exhibition 2018*
- **Ashutosh Tripathy**, Vinoth Srinivasan, K.K. Maurya, Nikhil Sirdesai, T.N. Singh, 2018, Acoustic and failure behavior of Gondwana shale under uniaxial compressive and indirect Brazilian tensile loading - an experimental study, Geomechanics and Geodynamics of Rock Masses: Proceedings of *EUROCK 2018*
- **Ashutosh Tripathy**, Vinoth Srinivasan, TN Singh, 2018, Pore Size Distribution of shale using Advanced analytical techniques, *EGU- 2018*.
- K.M. Sharma, N.N. Sirdesai, **A. Tripathy**, T.N. Singh, 2018, Micro-Pores and Fluid Flow – A Numerical Study, *52nd U.S. Rock Mechanics/Geomechanics Symposium - 2018*
- **Ashutosh Tripathy**, Amit Verma, TN Singh, 2017, Adsorption behavior of Gondwana shale with variable loading, *ICGCSC -2017*
- Jagadish Kundu, Bankim Mahanta, **A Tripathy**, Kripamoy Sarkar, TN Singh, 2016, Stability Evaluation of Jointed Rock Slope with curved face, **Indorock 2016**.
- Shesh Mani Sonkar, Shyo Prasad, **A Tripathy**, TN Singh, 2016, Wedge failure due to adverse geological conditions and its remedial measures for underground oil storage cavern- A case study, **Indorock 2016**.
- **A Tripathy**, Bankim Mahanta, TN Singh, 2016, Deformational behaviour of coal measure rocks, *International Conference on Earth Sciences and Engineering (ICEE 2016)*.
- **A Tripathy**, TN Singh, 2016, Cryogenic Fracture behavior of Indian Gondwana Shale- A Laboratory Study, *35<sup>th</sup> International Geological Congress*.
- **A Tripathy**, TN Singh, 2016, Physical and Numerical Simulation of Instability of Slope, *Advanced Trends in Civil Engineering and Sustainable Development*, p. 83-85.