

## ***Publications***

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- I. **Galav A.,** Singh G.S.P., Sharma S.K. (2023). Hydro-Mechanically Coupled Numerical Modelling of Protective Water Barrier Pillars in Underground Coal Mines in India. *Mine Water and the Environment*. 10.1007/s10230-023-00946-2.
- II. **Galav A.,** Singh G.S.P., Sharma S.K. (2022). A Numerical Modeling Approach for Assessment of Seepage Characteristics and Performance of Protective Water Barrier Pillars in Underground Coal Mines. *Mining, Metallurgy & Exploration*. 39. 1-17. 10.1007/s42461-022-00672-3.
- III. **Galav A.,** Singh G.S.P., Sharma S.K. (2021). Design and Performance of Protective Water Barrier Pillars for Underground Coal Mines in India—A Review. *Journal of The Institution of Engineers (India): Series D*. 102. 10.1007/s40033-021-00286-x.
- IV. **Galav A.,** Kumar R., Singh G.S.P., Sharma S.K. (2019). Numerical Simulation of Water Flow through a Protective Barrier Pillar in Underground Coal Mines. *Proceedings of 5th ISRM Young Scholars' Symposium on Rock Mechanics and International Symposium on Rock Engineering for Innovative Future, Okinawa*. December 1–4, 2019. Paper Number: ISRM-YSRM-2019-023
- V. **Galav A.,** Sahoo S.K., Singh G.S.P., Sharma S.K. (2017). Study of Strata Behaviour in a Contiguous Seam Depillaring Working. *Proceedings of Deep Excavation, Energy Resources and Production (DEEP16), IIT Kharagpur*. Paper Number 136
- VI. Sahoo S.K., **Galav A.,** Behera B., Sharma S.K., Singh G.S.P. (2016). Strata Control Monitoring in a Contiguous Seam Depillaring Working. *Proceedings of the conference on Recent Advances in Rock Engineering (RARE 2016)*. 10.2991/rare-16.2016.55
- VII. **Galav A.,** Singh G.S.P., Sharma S.K. (2023). Design of Protective Water Barrier Pillars for Enhanced safety and Productivity in Underground Coal Mines. *Proceedings of the Seminar UMANG 2023*. Dec 2023.

## ***Patent***

- **A. Galav,** G.S.P. Singh, S.K. Sharma (2023). A system and method for assessing hydro-mechanical performance of water barrier pillars for coal mines (Published)