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Solid-Filling Technology in Coal Mining

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Deadline for manuscript submissions:
closed (20 March 2023)

Message from the Guest Editors

Dear Colleagues,

Backfill mining technology can not only deal with mine waste on a large scale but also effectively control mining subsidence and protect surface buildings and the ecological environment. Filling materials play an important role in backfill mining and have an important influence on the filling effect. This Special Issue invites research and review articles on filling material across research fields which may include (but are not limited to) the following: (1) mechanical strength optimization, rheological properties, deformation characteristics, and damage mechanism of filling materials; (2) the heat, products, and mechanism analysis of hydration reaction of backfill materials; (3) development and performance testing of backfilling materials with mine solid waste, such as fly ash cemented filling materials, geopolymers, and alkali-activated materials; (4) the development and performance testing of functional backfill materials, such as heat storage and release functional backfill materials, and water purifying backfill materials; and (5) all above materials advanced applications in coal mining.

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Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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