Special Issue

Green Mining of Coal Mine in China

Message from the Guest Editors

Green mining, a fundamental technology of coal mines, aims to address ecological and environmental issues due to coal resource recovery. Mining-induced ground movement damages topsoil, construction, and localized ecosystems; continuous fracturing triggers water loss or even water inrush; gas released from coals leads to pollution or even disaster; solid wastes piled on ground surface bring about soil erosion; mine dusts deteriorate the underground working environment and air quality on the ground surface. More than 20 years of studies on green mining in China have witnessed theoretical and technological progress in water-protective mining, co-extraction of coal and gas, surface subsidence mitigation, mine waste reducing and recycling, mine dust control, etc. In this context, this Special Issue welcomes review articles, research articles, and technical notes that cover all the above areas, including experimental studies, model and algorithm innovations, analytical and numerical analyses, case studies, etc.

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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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