Special Issue

Advances and Applications of High-Pressure Grinding Rolls Designs and Operational Strategies

Message from the Guest Editors

As the mining industry moves toward lower-grade ores and higher sustainability standards, High-Pressure Grinding Rolls (HPGR) continues to gain prominence as a key solution for optimizing comminution efficiency and reducing operational costs. This Special Issue aims to bring together cutting-edge research on the latest HPGR innovations, including novel roller designs, improved wear materials, advanced control strategies, and integration with other comminution technologies. We invite researchers, industry professionals, and engineers to contribute original research articles, review papers, and case studies that address recent developments and future trends in HPGR design and application.

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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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