Special Issue

Recent Developments in the Technology and Equipment for Coal Beneficiation

Message from the Guest Editors

Coal is an energy resource of great abundance. Coal, an organic sedimentary rock, is upgraded in coal beneficiation unit operations, which reduce its content of impurities. Coal beneficiation includes physical processes that upgrade the quality of coal by regulating its size and reducing the content of mineral matter (expressed as ash, sulfur, etc.). The major unit operations are classification (screening), cleaning (washing, beneficiation), crushing and solid/liquid separation which also includes dewatering by drying. While gravity concentration (dense-medium baths, jigs, dense-medium cyclones, etc.) is the dominant cleaning method for coarse and intermediate coal size fractions, flotation is the dominant cleaning method for fine-size fractions. This Special Issue aims to contribute to the disclosure of recent developments in the technology and equipment for coal beneficiation.

Guest Editors

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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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