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

Prof. Dr. Zhijun Zhang

Dr. Yinfei Liao

Dr. Guichuan Ye

Dr. Fardis Nakhaei

Deadline for manuscript submissions

26 September 2025

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/210762

Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

mdpi.com/journal/minerals

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/journal/minerals

About the Journal

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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI