Special Issue

Toxic Mineral Matter in Coal and Coal Combustion Products

Message from the Guest Editors

The toxic mineral matter described here encompasses dissolved toxic salts in the pore water of coal, toxic inorganic elements associated with the organic compounds of coal, as well as toxic discrete crystalline and non-crystalline mineral particles in coal and coal combustion products (CCPs). In many cases, discrete crystalline and non-crystalline mineral particles in coal and CCPs are the carriers of toxic elements. Such toxic components have been reported to have adverse (or potentially) effects on human health and environment during the process of coal mining, coal storage, and utilization (particularly coal combustion). This Special Issue covers basic research, advanced analytical methods, and technological measures for environmental protection related to toxic mineral matter in coal and in CCPs.

Guest Editors

Prof. Dr. Shifeng Dai

Dr. Xibo Wang

Prof. Dr. Lei Zhao

Deadline for manuscript submissions

closed (18 February 2018)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/8831

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

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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.

Editor-in-Chief

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

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