Special Issue

Coal Properties and Their Effect on Industrial Processes

Message from the Guest Editor

Both macerals and minerals define coal, but so do time, temperature, pressure, and depositional environment. This results in no two coals being alike even within the same mining complex, but many different coals being considered for use in industrial processes. The use of coal as a source of energy-heat and electricity-and those properties that define performance in power plants have been studied by many investigators. Even more complex is the use of coal as a source of carbon. Our "coal trees" show uses as varied as coke and coke breeze, light oil, gas, chemicals, and tars, with many products on each branch. This Special Issue will review coal properties and their effect on such mundane processes as coal handling and transport, move through a review of coal properties in relation to coal preparation, describe important properties for coal as an energy source in various types of power plants or as a source of carbon for petrol or gases in liquefaction or gasification processes, provide important perspectives related to coke making, and explore the requirements for coals for the carbon materials of the future.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2024)



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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.

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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).

