Special Issue

Fine Scale Characterization and Modeling of Shale Rocks

Message from the Guest Editors

Topic: Advanced Analytical Methods in Characterization of Unconventional Plays The current Special Issue aims to attract original high-quality papers and recent developments in the field of metric characterization and fluid–rock interactions applied to petroleum engineering applications...include the following topics:

- Force spectroscopy (AFM, nanoindentation);
- Electron microscopy (SEM/TEM) of pores or other components;
- SAXS/WAXS/SANS/USANS for crystallography and/or pore characterization;
- H, C nuclear magnetic resonance (NMR) and X-ray photon spectroscopy (XPS) for chemical and physical analysis;
- A combination of adsorption methods;
- Chemical variations using AFM-based IR and/or Raman spectroscopy;
- Mass spectrometry, pyrolysis, and thermal gravimetric methods;
- Mathematical modeling for upscaling methods that showcases experimental data at various scales of measurement.

Note that all aspects of petroleum rock properties that utilize advanced mathematical/experimental methods are of interest.

Guest Editors

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Deadline for manuscript submissions

closed (15 September 2020)

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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.

Editor-in-Chief

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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).

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