Special Issue

Petrography, Sedimentology, and Geochemical Signatures of Fine-Grained Sedimentary Rocks in Deep-Water Environments

Message from the Guest Editors

Fine-grained sedimentary rocks are defined as sedimentary rocks where at least 50% of the grains are smaller than 62.5 μm. Fine-grained sedimentary rocks are particularly valuable because they contain most of the energy reserves and mineral resources that are vital to our modern society. Moreover, these rocks comprise approximately two-thirds of the stratigraphic record and have significant implications for global paleoclimate and paleoceanography reconstruction. Despite global economic and scientific significance, geologists still lack a fundamental understanding of the sediment transportation processes, deposition mechanisms, petrographic characteristics and geochemical signatures of these rocks. This Special Issue aims to contribute to the disclosure of all the recent research findings and applications of new techniques in the petrography, sedimentology and geochemical signatures of fine-grained sedimentary rocks

Guest Editors

Dr. Junwen Peng

Oklahoma Geological Survey, The University of Oklahoma, Norman, OK, USA

Prof. Dr. Xiongqi Pang

State Key Laboratory of Petroleum Resources and Prospecting, China University of Petroleum, Beijing 102249, China

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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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