Special Issue

Distribution and Development of Faults and Fractures in Shales

Message from the Guest Editors

Fractures and faults are important storage spaces and seepage channels of shale reservoirs, which affect the enrichment law, preservation conditions, and individual well productivity of shale hydrocarbon; hence, they are important geological factors that need to be considered in shale oil and gas exploration. In recent years, with the large-scale exploration and development of shale oil and gas, many scholars have carried out extensive research on the development characteristics, formation mechanism, main control factors, evaluation and prediction methods, subsurface stress distribution, and the influence of fractures on the enrichment of shale oil and gas. The purpose of this Special Issue is to summarize the recent advances in the understanding of fracture and fault related to mineralogy, geology, geochemistry, and geophysics in shale reservoirs in recent years, promote and improve the theoretical and technical method system of fracture and fault research, and guide the exploration and development of shale oil and gas.

Guest Editors

Prof. Dr. Lei Gong

Dr. Guoping Liu

Prof. Dr. Ruyue Wang

Dr. Shaoqun Dong

Dr. Zhonghu Wu

Deadline for manuscript submissions

closed (26 September 2025)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/187838

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), GEOBASE, 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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

MDPI