Special Issue

The Mineralogy of the Siliceous Concretions

Message from the Guest Editors

Siliceous concretions (chert) are a prominent component of diagenesis in biogenetic rocks. In biosiliceous oozes in the modern ocean, alteration of opaline silica to crystalline chert is unusual in rocks younger than Miocene. In limestones, timing of chert nodule formation has in some cases been determined from the presence of detrital chert pebbles eroded following basin inversion. The precursors of chert nodules in limestone can be initiated during very early burial diagenesis and are related to redox-controlled boundaries.

The scope of this Special Issue is to investigate the mineralogical and sedimentological characteristics of bedded and nodular chert in order to determine the conditions, processes, and timing of the formation of diagenetic silica minerals in different host rocks, of different ages and paleogeographic settings.

This Special Issue welcomes high-impact original research and review papers that discuss the mineralogy of siliceous concretions, their relationship to sedimentary facies, the timing of different stages of chert formation, and basinal diagenetic processes, including the formation of stylolites and dissolution–reprecipitation reactions.

Guest Editors

Prof. Dr. Avraam Zelilidis

Prof. Dr. Ioannis Iliopoulos

Prof. Dr. Georgia Pe-Piper

Deadline for manuscript submissions

closed (30 September 2021)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/68256

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), 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 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).

MDPI