

Special Issue

Geochemistry, Mineralogy, Formation, and Environmental Aspects of Marine Ferromanganese Crusts

Message from the Guest Editors

Dear colleagues, Ferromanganese crusts, along with other submarine minerals, are gaining increasing attention these days as potential future sources of ores, especially those linked to the energy transition and the green economy. Fe-Mn mineralizations are typically divided into three different types depending on the predominant genetic process throughout their formation—hydrogenetic, diagenetic, and hydrothermal—in addition to all the mixed terms between them. This Special Issue invites the submission of contributions on the genesis and formation of ferromanganese crusts and the factors that influence the presence of particular genetic types. We also welcome contributions focused on the use of different high-resolution techniques in ferromanganese crusts, especially those focused on the mineralogical and geochemical characterization of the critical metals that may be concentrated in these deposits. Finally, we welcome all those contributions that will be focused on the environmental protection aspects of marine mining and metallurgical experiments, as well as studies to recover valuable metals and legislation linked to the possible future mining of these deposits.

Guest Editors

Dr. Egidio Marino
Dr. Natalia Konstantinova
Dr. Francisco J. González

Deadline for manuscript submissions

closed (28 February 2025)



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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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