

Special Issue

Skeletal Tissues Mineralization

Message from the Guest Editors

Mineralized tissues in vertebrates, such as bone, teeth, scales, and eggshells, exhibit remarkably diverse hierarchical organizations, encompassing multiple levels of structure from the nanoscale to the macroscopic level, and often exquisite control over the mineral and matrix components. This hierarchical organization contributes to the mechanical properties and functional characteristics of these materials. This Special Issue focuses on the mineralized skeletal tissues of vertebrates, from fish to mammals. Submitted papers should present novel fundamental insights into one or more aspects, such as mechanisms of formation, unique functional adaptations, and insights into the evolution of these tissues. Additionally, we are particularly interested in contributions that address methodological aspects designed to improve our current understanding of the mineralization processes and material functions. Innovative approaches, such as advanced imaging techniques, compositional analyses, correlative light and electron microscopy and cryo-electron microscopy, will be particularly welcome.

Guest Editors

Dr. Emeline Raguin

Department of Biomaterials, Max Planck Institute of Colloids and Interfaces, Am Mühlenberg 1, 14476 Potsdam, Germany

Prof. Dr. Steve Weiner

Department of Structural Biology, Weizmann Institute of Science, Herzl St 234, 7610001 Rehovot, Israel

Deadline for manuscript submissions

closed (30 April 2024)



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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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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).