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Biomineral Inspired Materials for Regenerative Medicine

Guest Editors:

Dr. Vida Strasser
Laboratory for Biocolloids and Surface Chemistry, Division of Physical Chemistry, Ruđer Bošković Institute, Bijenička Cesta 54, 10000 Zagreb, Croatia

Dr. Darija Domazet Jurašin
Laboratory for biocolloids and surface chemistry, Division of physical chemistry, Ruđer Bošković Institute, Bijenička Cesta 54,10000 Zagreb, Croatia

Dr. Maja Dutour Sikirić
Laboratory for Biocolloids and Surface Chemistry, Division of Physical Chemistry, Ruđer Bošković Institute, Bijenička Cesta 54, 10000 Zagreb, Croatia

Deadline for manuscript submissions:
closed (18 October 2022)

Message from the Guest Editors

Dear Colleagues,

In the field of regenerative medicine, the search for the ideal tissue replacement materials is still ongoing. Current results show that bioinspired materials which mimic natural tissue are among the best candidates for medical applications. Such materials induce a less aversive immune response, especially in comparison with conventional materials. Materials for regenerative medicine should be biocompatible, have similar properties to the tissue they replace, and at the same time be biodegradable, bioinductive, and/or bioconductive. Biomineral inspired application of diverse minerals is already widespread, but it is hard for a single material to satisfy all the needed requirements. To fulfill the mechanical demands of some materials for regenerative medicine, diverse metallic or non-metallic inorganic materials are being researched. They are commonly combined with diverse organic compounds to which the tissue in need of repair should adapt more easily.

We invite you to submit your recent work on the preparation, properties, and applications of biomineral-inspired materials for regenerative medicine for publication in our Special Issue.

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Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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.

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Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
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