

Special Issue

Biomaterial Inspired Materials for Regenerative Medicine

Message from the Guest Editors

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. Biomaterial 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 biomaterial-inspired materials for regenerative medicine for publication in our Special Issue.

Guest Editors

Dr. Vida Strasser

Dr. Darija Domazet Jurašin

Dr. Maja Dutour Sikirić

Deadline for manuscript submissions

closed (18 October 2022)



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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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