Special Issue

New Insights in the Synthesis and Applications of Hydroxyapatite and Composites

Message from the Guest Editor

The main interest of many research centers is the preparation of new, modern, and technologically advanced materials that are both cheap, easily available, and effective in operation and at the same time minimize process times. This Special Edition, is devoted to the characterization of new types of hydroxyapatite and its composites syntheses and modifications, mainly intended to solve environmental and medical problems. Hydroxyapatite can be obtained by a variety of methods. In general, the following groups can be distinguished: wet methods, dry methods, high temperature methods, and combined methods. Among these techniques, more specific approaches can be highlighted. In recent research, the most common methods are wet methods, including chemical precipitation. The hydrothermal method is also frequently used. Moreover, some scientists utilize the sol–gel method. Some experiments employ techniques using microwaves, ultrasounds or pyrolysis. In turn, the biomimetic method is favored in biological studies. Each synthetic route affects the structure, crystallinity, form, and proportion of the resulting composites.

Guest Editor

Dr. Ewa Skwarek
Faculty of Chemistry, Maria Curie-Sklodowska University in Lublin, Sq. Maria Curie-Skłodowska 2, PL-20031 Lublin, Poland

Deadline for manuscript submissions

closed (10 July 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/82073

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)