Special Issue

Development and Application of Advanced Inorganic Composites

Message from the Guest Editor

Inorganic nanomaterials are a class of compounds characterized by unique properties that result in advantageous surface, bulk, and optical characteristics. Nevertheless, their integration into technology creates additional economic and ecological challenges, which are a current priority for both science and industry. In this context, the integration and uniform distribution of nanoparticles in various media create conditions for the formation of nanocomposites. Applying suitable synthesis methods for these dispersion systems, coupled with detailed characterization and investigation of their physical and chemical properties, opens up new opportunities that align with industrial needs. Therefore, in this Special Issue, we invite you to submit manuscripts on synthesis methods for preparing nanocomposite materials, detailed characterizations of the resulting inorganic systems, and investigations of their physical properties. We are particularly interested in works directly associated with the synthesis and analysis of multicomponent oxide systems doped or substituted by different rare elements.

Guest Editor

Dr. Arturas Zalga

Department of Applied Chemistry, Faculty of Chemistry and Geosciences, Vilnius University, Naugarduko Str. 24, 03225 Vilnius, Lithuania

Deadline for manuscript submissions

closed (20 December 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/199740

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

MDPI

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)