materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

an Open Access Journal by MDPI

Layered Double Hydroxides (LDH) and LDH-Based Hybrid Composites

Guest Editor:

Dr. Jakub Matusik
Department of Mineralogy, Petrography and Geochemistry Faculty of Geology, Geophysics and Environmental Protection AGH University of Science and Technology, al. Mickiewicza 30, 30-059 Kraków, Poland

Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editor

LDHs are a class of two-dimensional layered anionic structures. The features of LDH phases include the following: ease of synthesis, controllable and flexible chemical composition, and relatively large surface area. These contribute to their potential applications in adsorption-based processes, catalysis, electrochemistry, polymer chemistry, biomedicine, and wastewater treatment.

The Special Issue will cover, but not be limited to, the following topics:

+ the synthesis of pure LDH phases of different chemical compositions by various experimental approaches;

+ the synthesis of hybrid LDH-based materials involving the use of clays and clay minerals, zeolites, metals, and oxides/hydroxides;

+ the characterization of LDH and LDH-based materials at an atomic level with advanced analytical methods;

+ applications of LDH and LDH-based materials in the adsorption, catalysis, and synthesis of polymer composites and drug delivery.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full research papers, short communications, and reviews are welcome.

materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

an Open Access Journal by MDPI

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

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.

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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi