

Special Issue

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

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.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2020)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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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.

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