Special Issue

Advances in Processing and Characterization of Mineral Materials

Message from the Guest Editors

Functional minerals are the materials inspired by geological systems originating from the billion-years-long history of the Earth. Each of them has a unique chemical composition and a structure that determines its interesting properties and possible functions. The functions of mineral materials include adsorption, ions-exchange, catalysts, magnetism, immobilization, ceramics and micronutrient bearing mineral fertilizer. Layered clay minerals, and zeolite-like structures and layered double hydroxides (LDHs) are also particularly suited to such a defined functionalization. The modification and design principles on the thermodynamics and kinetics aspects and characterization techniques of functional mineral materials are also welcome. This Special Issue, collecting interdisciplinary studies, will provide the current top trends in the innovative functionalization techniques for mineral materials. Reports, investigations, articles, reviews and short communications on the unique properties of functionalized materials and their expected applications are also welcome. Thank you for your support!

Guest Editors

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Deadline for manuscript submissions

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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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