Special Issue

Conventional and Microwave Hydrothermal Synthesis of Functional Materials

Message from the Guest Editor

In the last decades the hydrothermal technology has regained a lot of interest in the scientific community in several application fields, of which the synthesis of advanced materials has played a prominent role. In fact, the hydrothermal treatment has enabled the materials scientists to synthesize fine and ultra-fine particles with a controlled size and morphology, and consequently with desired properties. Consequently, a lot of research works have been published in recent years concerning the hydrothermal synthesis of simple oxides, mixed oxides, perovskites, garnets, vanadates, bioceramics, etc. Then, a further push has arrived through the use of microwaves for enhancing the hydrothermal kinetics. This special issue aims to cover an overview of the application of the hydrothermal technology, both conventional and microwave-assisted, in the synthesis of advanced functional materials. To this end, it is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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