Special Issue

Novel Superconductors and Related Materials

Message from the Guest Editor

This Special Issue represents a timely survey of the recent progress in the synthesis of new materials and their potential for application. The articles presented in this Special Issue will cover various topics, ranging from materials preparation, engineering, functionalization, and their various applications, such as superconductors, thermoelectrics, topological materials, photocatalysts, photovoltaics, and battery electrodes/electrolytes, to name but a few. The coverage will not be exhaustive, but it is our intention that this Special Issue will offer a unique glimpse into what has been achieved and what remains to be explored in the synthesis of new materials.

The Special Issue will cover the following non-exclusive list of topics:

- Synthesis and characterization of new materials;
- Superconductors; Thermoelectric materials; Topological materials;
- Photocatalysts; Photovoltaics; Battery electrodes/electrolytes; Solar hydrogen generation;
- Doping to modify crystal/electronic structures;
- Alternative synthesis method; Local structure analysis;
- First-principles study.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2021)

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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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