



materials



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Advanced Superconducting Materials: Design, Properties and Applications

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Message from the Guest Editor

Superconductivity is a fundamental phenomenon that has not yet lost the interest it has attracted, leaving room for new experimental discoveries and practical use. New compounds and approaches to obtaining controlled superconductivity are constantly being discovered, which causes the need for fundamental and theoretical studies.

This Special Issue is intended to provide an opportunity to review progress in certain areas of superconductivity. Particular attention is paid to experimental and theoretical studies of superconducting materials and their latest applications. Potential topics include but are not limited to:

- High-temperature superconductors;
- Synthesis of superconducting materials;
- Hybrid superconducting/ferromagnetic and superconducting/normal metal materials for engineering thin film properties;
- Applications of low-temperature superconducting materials to design and fabrication of ultimately sensitive bolometers, microcalorimeters, photon counters and quantum information processing, as well as applications to dark matter search.



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Special Issue



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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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