Special Issue

Advances in Materials, Devices and Applications of Superconducting Technology

Message from the Guest Editors

Superconducting materials hold great potential in bringing radical changes for high-energy and high-field applications such as superconducting magnets, superconducting generators and motors, superconducting cables for power transmission, superconducting fault current limiter, and superconducting magnetic energy storage. It is necessary to elucidate the challenges and benefits of various types of superconducting materials and applications. This Special Issue on "Advances in Materials, Devices and Applications of Superconducting Technology" will address the novel techniques, theories, and concepts for the research progress in superconducting materials, devices, and applications. Full articles, short communications, and review papers on theoretical modeling, numerical simulation, and experimental characterization are welcome for submission. Topics of interest include but are not limited to the following: Superconducting materials; Large-scale applications and superconducting power devices; Mechanical, electromagnetic, and thermal stability.

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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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