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Superconductors and Magnetic Materials

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Message from the Guest Editors

This Special Issue focuses on the development and application of improved superconductor compounds, high-remnant-flux permanent magnets, and high-magnetic-permeability materials for power applications.

This Special Issue welcomes the submission of studies on the development of material crystals consisting of novel and doped compounds for superconductor bulks, wires and tapes, high-remnant-flux permanent magnets and high-magnetic-permeability materials. These include superconducting compounds that reach superconductivity states at atmospheric pressure. High-magnetic-permeability materials include soft and hard ferrites, silicon—iron and cobalt—iron—based alloys. High-remnant-flux permanent magnets include alnico, neodymium—iron—boron and samarium—cobalt-based alloys.

This Special Issue also welcomes the studies on the variation in the electromagnetic characteristics of new and existing superconducting and magnetic materials in different pressure and temperature operating conditions, and the assessment of the utilization of rare-earth-free magnetic materials in power applications.











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Message from the Editor-in-Chief

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