Special Issue

Design, Control and Applications of Permanent Magnet Materials

Message from the Guest Editors

Research on permanent magnets is essential for advancing technology and industrial applications. Current studies focus on enhancing the properties of these magnets, reducing their size and weight, and exploring novel energy, sensors, and information storage applications. The challenges associated with this technology include enhancing the production processes, addressing material scarcity and recycling, and ensuring its stability and durability in various environments. Despite these obstacles, continuous innovations and endevours are expected to lead to significant breakthroughs in permanent magnet technology. This Special Issue aims to showcase recent advancements in permanent magnet design, engineering, and applications. By highlighting cutting-edge research and developments, this Special Issue seeks to address the challenges facing permanent magnet technology and drive further innovation in this field. From enhancing the efficiency and stability of permanent magnets to exploring novel applications, the contributions to this Special Issue will demonstrate the potential for significant progress in the realm of permanent magnets.

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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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