

## Special Issue

# Functional Soft Magnetic Materials and Electromagnetic Shielding Technology

### Message from the Guest Editors

Quantum precision measurement technology, as a disruptive innovation, surpasses the measurement limits of traditional methods and holds significant scientific and strategic value. Under ideal conditions without external interference, the ultimate sensitivity of various parameters is solely determined by quantum noise. However, in practical measurements, electromagnetic noise imposes limitations, preventing the realization of ultra-high sensitivity. Therefore, there is an urgent need to develop novel soft magnetic materials and breakthrough electromagnetic shielding technologies to support the advancement of quantum technologies and their critical roles in scientific research, national defense, and societal applications. This Special Issue on "Functional Soft Magnetic Materials and Electromagnetic Shielding Technology" aims to provide a comprehensive overview of the current knowledge and implementation levels of electromagnetic shielding materials and applications. Topics of interest include, but are not limited to, composite materials, wave-absorbing materials, ferrite materials, amorphous and nanocrystalline materials, permalloy materials, electromagnetic shielding design.

### Guest Editors

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### Deadline for manuscript submissions

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## Materials

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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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