

Special Issue

Advances in Multifunctional Magnetic Materials

Message from the Guest Editor

Topics include, but are not limited to, the following:

- Permanent Magnets, both Sintered and Bonded: NdFeB, Ferrites, SmCo, AlNiCo; Innovative Rare Earth (RE) magnets, RE-Free magnet solutions, RE Recycling Processes;
- Soft Magnetic Composite Materials and Alloys: preparation and characterization, organic and inorganic layer for ferromagnetic powder, amorphous powder, particle size effects, covering techniques and insulating materials;
- Hybrid Magnets, Hybrid Composite Materials (HMC), Production Processes;
- Additive manufacturing Magnetic Materials: adopted Techniques, Iron–Silicon powder, Non-destructive measurements;
- Iron loss measurements and analysis, eddy current hysteresis and excess loss separation, initial permeability measurements, novel or optimized measurement techniques;
- FE Analysis of magnetic behaviour related to magnetic structures, Iron Loss Models;
- Life Cycle Assessment for magnetic materials, both soft and hard;
- Applications in the electrical machine, electronic conversion devices, informatic and telecommunication sectors, low- and high-frequency use and other applications.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2024)



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About the Journal

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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