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Advances in Multifunctional Magnetic Materials

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Deadline for manuscript
submissions:

closed (20 February 2024)

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.



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Special issue



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