Special Issue

Soft Magnetic Composite Materials and Alloys

Message from the Guest Editor

This Special Issue will cover the preparation, characterization, analysis, and applications of soft magnetic composite materials, powders, and alloys, to evaluate and obtain the appropriate materials for electrical machines, electronic conversion devices, and telecommunication equipment.

- Soft magnetic composite materials and alloys preparation and characterization, organic and inorganic layer for ferromagnetic powder, amorphous powder, iron-silicon powder, particle sizes effects, covering techniques and insulated materials used in soft magnetic composite materials, magnetic powder SEM analysis to assess the magnetic properties and microstructures, production process: compression and additive manufacturing;
- Iron losses measurements and analysis, eddy currents hysteresis and excess losses separation, initial permeability measurements, novel or optimized measurement techniques;
- FE Analysis of magnetic behavior related to magnetic structures, Bertotti Model and others for Soft Magnetic Composite Materials and Alloy;
- Applications in electrical machines, electronic conversion devices, and telecommunication sectors, low and high frequency uses, other applications.

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Message from the Editor-in-Chief

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