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Soft Magnetic Composite Materials and Alloys

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closed (30 September 2021)

Message from the Guest Editors

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

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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