



an Open Access Journal by MDPI

Soft Magnetic Composite Materials and Alloys

Guest Editors:

Dr. Emir Poskovic

Energy “G. Ferraris” Department,
The Polytechnic University of
Turin, 10129 Turin, Italy

Dr. Fausto Franchini

Department of Energy,
Politecnico di Torino, 10129
Torino, Italy

Prof. Dr. Mitra Taheri

Department of Materials Science
and Engineering, Drexel
University, Philadelphia, PA
19104, USA

Deadline for manuscript
submissions:

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.



mdpi.com/si/85445



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
appls@mdpi.com
[X@Appls](#)