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Ferromagnetism

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Deadline for manuscript
submissions:

closed (1 September 2021)

Message from the Guest Editors

Dear Colleagues,

Magnetic materials are essential to achieving a sustainable society. For instance, the development of batteries is required for electric vehicles (EVs), but magnetic materials are absolutely needed for the motor on EVs. At the same time, magnetic materials are used for storage, and their value to smart society has been growing, as they save energy. However, most permanent magnets are made from alloys of rare earth elements (REEs), and mining and processing of the elements produces toxic by-products, leading to ecological challenges around mines and refineries. With these in mind, further studies from fundamental to applicational are indispensable.

Topics to be covered include but are not limited to:

- Ferromagnets and antiferromagnets;
- REEs;
- Spintronics;
- Films;
- Recycling;
- Physics, chemistry, and metallurgy;
- Measurement;
- Analysis methods.

Keywords: Ferromagnets and antiferromagnets; Recycling, recovery and separation; Physics, chemistry, and metallurgy; Theoretical and calculations



mdpi.com/si/54219

Special Issue