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Soft Magnetic Materials and Their Application

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Message from the Guest Editor

Soft magnetic materials are widely used in electronics, energy conversion, information processing, and many other application scenarios. Recently, technological progress in soft magnetic materials has been focused on the processing of rapidly quenched amorphous and nanocrystalline materials (either in the form of ribbon or powder) as well as the improvement of magnetic properties of soft magnetic composites and soft ferrites. Moreover, newly soft magnetic devices have also been designed fast for the rapid development of fabrication methods and new applications.

To strengthen the research and development process of soft magnetic materials and magnetic devices, this SI integrates the presentation of recent advances in following areas:

- Silicone steels;
- Soft ferrites;
- Soft magnetic composites;
- Amorphous soft magnetic alloys;
- Nanocrystalline soft magnetic alloys;
- High-frequency soft magnetic materials;
- Processing technology of soft magnetic materials;
- Applications of soft magnetic materials in power conversion;
- Applications of soft magnetic materials in motors;
- Applications of soft magnetic materials in sensors;
- Applications of soft magnetic materials in communication

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Message from the Editor-in-Chief

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