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Advances in Computational Electromagnetics

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Complex magnetic materials, such as superconducting materials, composite or nanomaterials, rare-earth free permanent magnets and so on are becoming more and more popular in next-generation technologies. The experimental characterization of these materials is often too costly or even not applicable, while fast and efficient computational electromagnetic (CEM) methods are currently available to understand and fully characterize the behavior of such materials. This Special Issue aims at publishing a collection of research contributions illustrating the recent advances in computational electromagnetic techniques needed to model and characterize complex magnetic materials, namely in the topics listed below.

- Computational methods for electromagnetics
- Numerical techniques for solving static and quasi-static fields
- Material modeling
- Nanomagnetics modeling
- Nano-electromagnetic computation
- Bio-electromagnetic computation
- Multiscale modeling and homogenization
- Electromagnetic inverse problems
- Optimization and design of electromagnetic devices
- Novel computational methods for machines and devices

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Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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