magnetochemistry

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Permanent Magnets

Guest Editor:

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closed (31 December 2019)

Message from the Guest Editor

Dear Colleagues,

Permanent magnets are one of the most critical components in many devices, including electric motors, household appliances, wind turbines, and hybrid vehicles. Rapidly-increasing demand of high-performance permanent magnets make strong scientific cases for developing competing permanent magnets that do not rely on elements having high criticality and that are expensive. Thus, many scientists and engineers from all over the world are working on this topic to find better properties for various permanent magnet materials, including rare earth based, ferrite, alnico, and iron-nitrate. In this Special Issue we would like to invite scientists who are working in this field to contribute their original research and review articles that cover theoretical and modeling studies, synthesis, characterization and optimization of both rare earth and non-rare earth-based permanent magnet materials.

Potential topics include, but are not limited to:

- Theoretical and modeling study
- Fundamental study of hard magnetic materials
- Synthesis, characterization and optimization
- Restructuring and microstructural study
- Research on recycling of permanent magnet materials

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