



Magnetic Multiferroics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The ferroelectricity, (anti)ferromagnetism, and ferroelasticity of multiferroics are fascinating objects for fundamental and experimental studies as well as technological applications due to complex coupling between ferroic properties. The recently discovered possibility to affect their structural state and functional properties via external stimuli and synthesis conditions opens up new perspectives in the area of technological applications.

This issue aims to summarize recent advances in single phase and composite multiferroics focusing on their structure–property relations with special attention to magnetic properties. Contributions include but are not limited to the following topics: synthesis, processing, theoretical, and experimental methods to study the structure and functional properties of multiferroics, domain wall phenomena, magnetoelectric coupling, magnetization and polarization switching, and applications of magnetic multiferroics.

Keywords:

- multiferroics
- magnetoelectric materials
- (anti)ferromagnets
- magnetoelectric coupling
- functional properties
- crystal structure
- phase transitions

