magnetochemistry

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Magnetoelastic Effects

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Deadline for manuscript submissions:
closed (1 August 2021)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to provide a valuable forum where scientists of different backgrounds (mathematicians, physicists, engineers and chemists) will be able to share their most recent novel, theoretical and/or experimental, findings on magnetoelastic effects.

Topics to be covered include (but are not limited to):

- Mathematical modeling, numerical simulations and experiments on magnetoelastic effects;
- Magnetoelastic effects in connection with the symmetry of crystals;
- Physical effects caused by the interaction of electromagnetic and mechanical phenomena: voltage-controlled magnetic anisotropy in magnonic and spintronics devices; magnetoelastic and thermal effects in magnonic-phononic crystals; strain-controlled devices based on multiferroic and multifunctional materials;
- Topological Structures and magnetization dynamics in multiferroic and multifunctional materials: high-frequency nanoscale spin-wave generation, domain wall motion, dynamics of vortices and skyrmions;
- Micro- and nano-mechanical applications: sensors, actuators, storage, information and communication technology devices.

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