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New Developments in Ferromagnetic Materials

Guest Editors:

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Deadline for manuscript submissions:
closed (31 August 2019)

Message from the Guest Editors

Dear Colleagues,

Increasing economic and ecological demands, in particular energetic requirements, are compelling the development of novel multifunctional materials for applications in different fields of life and technology. In this context, new ferromagnetic materials are playing a crucial role in strategic industrial sectors, such as electronics, telecommunications, computation, health, etc. The goal of this Special Issue is to present the recent families of ferromagnetic materials:

- Soft/hard magnetic materials;
- materials exhibiting magnetotransport properties;
- low-dimensionality materials: Nanoparticles, nanodots, nanowires, nanotubes, thin films, multilayers;
- superlattices and materials with topological magnetic phases.

It will be reviewed the conventional and modern magnetic properties, effects, responses, behaviors... that present these materials like hysteresis parameters (coercivity, remanence, energy losses, etc.), magnetoelastic parameters, magnetocaloric effect, magnetic memory shape, magnetoimpedance response, giant magnetoresistance, tunnel magnetic jumption, spin valves, magnetic vortex, skyrmions, *etc.*

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Message from the Editor-in-Chief

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