Special Issue

Novel Approaches to Ferromagnetic and Magnetic Materials

Message from the Guest Editors

In the age of the Internet of Things (IoT) and Artificial Intelligence (AI), computing paradigms are changing to encourage smart living and enhance quality of life. Non-volatile data storage has been replaced, thanks to magnetic materials, by the currently used Von Neumann computing architecture. Magnetic materials will be a prominent factor in the advancement of future technologies, such as non-volatile memory, quantum and neuromorphic computing, reconfigurable computing, and computation-in-memory. Novel magnetic materials, methods, and devices are therefore the focus of this proposed Special Issue entitled “Novel Approaches to Ferromagnetic and Magnetic Materials.” We welcome papers on the attributes of novel materials, such as their antiferromagnetic, ferromagnetic, or ferrimagnetic properties. Further, this Special Issue covers a wide range of topics, such as skyrmions, spin devices, heavy metals, topological insulators, antiferromagnetic materials, ferrimagnetic materials, ferromagnetic materials, the spin Hall effect, domain walls, 2D magnetic materials, and spintronic devices.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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