Journal of Nanotechnology

Special Issue on
Experiments, Modeling, and Simulation of Nanoscale Spintronics Devices and Materials

CALL FOR PAPERS

The success of today's information era relies highly on the data storage capacity attributed to novel spintronic devices, which has attracted multidisciplinary experts in the scientific community. Device experts have been searching nanoscale multifunctional materials and devices with lower power consumption, faster operation speed, and higher storage density. Understanding the physics of magnetic materials by contemporary experimental and theoretical tools is crucial for the realization of state-of-the-art magnetic devices.

This special issue serves as a platform to exchange ideas that facilitate experimental and theoretical exploration of magnetic materials. We invite original research papers as well as review articles that report recent advances in spintronics, which shed light on the novel treatment of the physical phenomena of nanoscale magnetic materials to be used in next-generation spintronic devices.

Potential topics include, but are not limited to:

- Micromagnetic simulations
- Spin-lattice simulations
- Spintronic material fabrication and characterization
- Experiment and design of skyrmionic devices
- Experiment and simulation of magnetic domain-wall devices
- Spin torque oscillators and spin hall oscillators
- Interfaces of ferromagnetic materials and other two-dimensional materials

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