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Advances in Magnetic Materials and Magneto-Elastic Sensors

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is aimed at providing researchers with a survey of the recent progress in magnetic materials and their applications, with a special emphasis on magnetoelasticity phenomenon-based sensors. The articles presented within will cover a wide range of related topics, from magnetic materials preparation and characterization, to their various practical applications in sensors for physical parameters, chemical substances, biological molecules, gases, and so on. For these sensing purposes, magnetic materials can be used in their as-prepared state or after a specific functionalization of the magnetic material. All these aspects will be covered in this Special Issue. This broad perspective deals not only with classic but also the most modern applications, such as in biomedicine, a research field in which magnetic nanomaterials for hyperthermia and cancer treatment purposes or magnetoelectric core/shell type nanoparticles for drug delivery and release are nowadays a hot topic. This Special Issue will provide an overview of what is currently being explored in magnetic materials for sensing purposes.





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Message from the Editorial Board

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