

Special Issue

Spintronic and Magnetic Platforms for Biosensing

Message from the Guest Editor

In recent years, magnetic platforms have gained interest as a promising reference technology in the field of biosensing, due to their high sensitivity and integrability. The use of magnetic labels for both the manipulation and detection of biological entities—such as biomolecules, pathogens, and cells—is one of the key advantages of magnetic techniques. One of the most utilized magnetic biosensing approaches is based on the use of external magnetic fields to magnetize paramagnetic or superparamagnetic particles and crystals labelling the recognition event between complementary biomolecules on the surface of a magnetic field sensor. This Special Issue will cover a wide range of topics, including the design, fabrication and characterization of magnetic sensing platforms, physical working principles, modeling and simulation, and new biological applications. For further information about the topics of interest, please visit: https://www.mdpi.com/journal/sensors/special_issues/smpb

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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