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Spintronic and Magnetic Platforms for Biosensing

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Message from the Guest Editor

Dear Colleagues,

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.

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Prof. Daniela Petti

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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