Special Issue

Light–Matter Interactions in Functional Nanomaterials for Sensing

Message from the Guest Editors

This Special Issue will cover all new advances in light–matter interaction at the nanoscale targeted towards sensing at the nano level. Controlling light–matter interactions beyond the diffraction limit is a rapidly increasing field of significant scientific importance, with new technologies ranging from tunable incandescent light emission to single-photon sources. Nanostructures, including metallic (plasmonic), dielectric and semiconductor, 2D materials, quantum dots, as well as hybrid nanostructures have great potential in a variety of applications in electrochemical biosensing, optical biosensing, and bioimaging. This includes the detection of gases, gaseous pollutants or other dangerous substances, optical signals, mechanical strain, etc. A major goal of this Special Issue is to provide new strategies for light–matter interactions at the nanoscale, with particular attention paid to developing new materials and novel technologies for sensing at the nanoscale.

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Deadline for manuscript submissions

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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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