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Light–Matter Interactions in Functional Nanomaterials for Sensing

Guest Editors:

Dr. Ying-Lung Daniel Ho

Dr. Juna Sathian

Dr. Qiang Wu

Dr. Chung-Che Huang

Deadline for manuscript
submissions:

closed (6 October 2021)

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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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
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