Special Issue

Plasmonic Metamaterials for Sensing Applications

Message from the Guest Editor

Plasmonics technology has entered a new phase owing to its intriguing properties in modern applications, such as medical diagnostics and label-free genetic analysis, cellular level imaging, astronomy, security and defense industries, nondestructive quality control, high-bandwidth communication, and computing. The recent advancements in artificial materials research have enabled the emergence of novel and high-power sources, and the potential of plasmonics for advanced physics research and commercial purposes has been validated. In modern clinical applications, plasmonic metastructures provide nondestructive, nonpoisonous, noncontact, label-free, and fast detection of biomarkers' fingerprints at ultralow densities with high precision. In spite of remarkable advancements in plasmonic technologies for pharmacological purposes, efforts are being continuously made to implement high-responsive, low-cost, on-chip, and accurate coming generation plasmonic biological sensors. This Special Issue "Plasmonic Metamaterials for Sensing Applications" focuses on fundamental and applied research to devise and develop ultraprecise plasmonic sensors and metasensors

Guest Editor

Dr. Arash Ahmadivand

Department of Electrical and Computer Engineering, Rice University, 6100 Main St, Houston, TX 77005, USA

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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.

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

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