Special Issue

Advancements in Plasmonics: Structures, Optical Properties and Applications

Message from the Guest Editors

Diffuse interest has been recently devoted to plasmonic nanomaterials, supporting strong light-matter interaction at the subwavelength scale due to excitation of surface plasmon resonances at the metallic (semiconductor)/dielectric interface. This Special Issue is dedicated to advancements in plasmonic nanomaterials, their nanofabrication, the experimental and theoretical study of their peculiar optoelectronic properties. These studies are crucial for a deep understanding of the fundamental behavior of novel plasmonic materials and necessary for implementing innovative applications in optoelectronics, nanophotonics, and sensing. We kindly invite you to contribute your research articles to this Special Issue. Articles based on experimental, numerical, or theoretical results will be considered and evaluated with a rigorous peer-review process. **Keywords** Surface plasmon polariton; 2D materials; plasmonic nanoantennas; THz and optical spectroscopies; sensing; non-linear spectroscopy

Guest Editors

Dr. Paola Di Pietro
Elettra Sincrotrone Trieste, 34149 Trieste, Italy

Dr. Maria Caterina Giordano
Dipartimento di Fisica, Università di Genova, Via Dodecaneso 33, I-16146 Genoa, Italy

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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