



Design and Applications of Plasmon-Based Nanodevices

Guest Editor:

Dr. Zhongzhu Liang

Center for Advanced
Optoelectronic Functional
Materials Research and Key
Laboratory of UV Light-Emitting
Materials and Technology of
Ministry of Education, College of
Physics, Northeast Normal
University, Changchun 130024,
China

Deadline for manuscript
submissions:

closed (30 January 2024)

Message from the Guest Editor

Dear Colleagues,

In recent years, surface plasmon resonance (SPR) technology has attracted much attention from researchers. Devices based on it have been widely designed and applied in various fields, such as sensing, detection, the analysis of biomolecules, and so on. We invite researchers to submit their contributions to this Special Issue, which aims to present original research and review papers that include the design and application of plasmon-based devices.. The topics include, but are not limited to, the following:

- Infrared detectors.
- Enhanced absorption based on plasmons.
- Ultrathin dielectric metasurfaces.
- Efficient regulation of light waves.
- Metalens.
- Perfect absorbers.
- Sensors based on SPR.
- Small-sized and lightweight devices.
- Integrated flat optical components.
- Novel sensing and detection devices.
- Integration, chip-based device of SPR.
- Multiplexing SPR sensors.
- Functional metasurface.
- Micro- and nanophotonics.
- Wavefront manipulation of light.
- Metasurface holography.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
X@Applsci