

Special Issue

Optical Nanoantennas

Message from the Guest Editor

Antennas are important elements of wireless information communication technologies, along with sources of electromagnetic radiation and their detectors. They are at the heart of modern radio and microwave frequency communications technologies and refer to devices converting electromagnetic currents into propagating waves and vice versa. Recently, the concept of antennas has been extended to the optical domain resulting in development of optical nanoantennas, which transmit and receive optical signals based on nanoscale objects. The ultimate goal is to achieve high efficiency in detection and directivity of the transmitting signals for all-optical. The functionality of a nanoantenna is two-fold: i) to transform the near-field of a quantum emitter into freely propagating optical radiation, and ii) convert the incident radiation into a strongly confined near-field. This Special Issue focuses on the latest research and development of optical nanoantennas and their applications, including linear, nonlinear, chiral, plasmonic, all-dielectric, and strong-coupled structures.

Guest Editor

Prof. Dr. Andrey Miroshnichenko

School of Engineering and Information Technology, University of New South Wales Canberra, Northcott Drive, Campbell, ACT 2600, Australia

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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