photonics

an Open Access Journal by MDPI

IMPACT FACTOR 2.1

CITESCORE 2.6

Design and Applications of Novel Nanophotonics Devices

Guest Editor:

Dr. Haejun Chung
1. Department of Electronic Engineering, Hanyang University, Seoul 04763, Republic of Korea
2. Department of Artificial Intelligence, Hanyang University, Seoul 04763, Republic of Korea

Deadline for manuscript submissions:
closed (15 May 2024)

Message from the Guest Editor

Dear Colleagues,

Nanophotonics, the intersection of nanotechnology and photonics, explores the behavior of light on the nanometer scale and the interactions of nanometer-sized objects with light. This Special Issue aims to collate research papers that explore the design and applications of cutting-edge nanophotonic devices. By manipulating light at scales smaller than its wavelength, these devices offer advanced capabilities in terms of size, efficiency, and functionality. The applications range from optical communication and computing to advanced imaging, sensing and many others. Emphasizing both fundamental concepts and real-world implementations, this Special Issue seeks to underscore the transformative potential of nanophotonics in reshaping modern technology. Following are some examples of key advancements:

Metamaterials and Metasurfaces;
Quantum Dot-based Devices;
Silicon Photonics;
Nonlinear Nanophotonic Devices;
Plasmonic Devices.

For more details: https://www.mdpi.com/si/188721