Topical Collection

Advances in Metamaterials or Plasmonics-Based Sensors

Message from the Collection Editors

The fields of metamaterials and plasmonics have seen significant advances for both fundamental scientific understanding and applications. Metamaterials are artificially engineered structures and can realize new functions that cannot be obtained in nature, while plasmonics can manipulate electromagnetic waves beyond the diffraction limit. These technologies are combined primarily at optical wavelengths to produce unique properties that cannot be achieved by conventional technologies. In particular, various types of high-performance or new functional sensors such as optical, biological, medical, gas, and chemical sensors based on metamaterials and plasmonics have been proposed. This special issue aims to introduce a wide range of recent advances in the metamaterials- and/or plasmonics-based sensor applications as well as related fundamental studies such as those on 2D material-based metamaterials or plasmonics for sensor applications.

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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.

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