Special Issue

Metasurfaces for Enhanced Communication and Radar Detection

Message from the Guest Editors

Metasurfaces are artificial ultra-thin metamaterials with two-dimensional structures, whose thickness is much smaller than the lateral dimensions. They are composed of subwavelength unit cells arranged on a specific plane. Metasurfaces can locally alter the amplitude, phase, and polarization of electromagnetic waves, fundamentally changing the way electromagnetic waves interact with matter. Therefore, metasurfaces have a significant impact on imaging, communication, sensing and radar applications. Motivated by these opportunities, this Special Issue of *Sensors* aims to provide a platform for the recent progress in advanced metasurface technologies. Topics of interest include, but are not limited to, the following:

- Metasurfaces for communication applications;
- Metasurfaces for radar detection;
- Metasurfaces for integrated sensing and communication;
- Programmable metasurfaces;
- Reconfigurable intelligent metasurface;
- Metasurface antennas for radars or communication;
- Metasense;
- Matasurface-based antennas.

Guest Editors

Dr. Linyan Guo

School of Geophysics and Information Technology, China University of Geosciences, Beijing 100083, China

Prof. Dr. Xiaojun Huang

College of Communication and Information Engineering, Xi'an University of Science and Technology, Xi'an 710054, China

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

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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