

Special Issue

Nano/Micromechanical Metasurfaces and Active Metasurfaces/Plasmonics

Message from the Guest Editors

Metasurfaces/plasmonics can be artificially engineered for a desired electromagnetic response. The optical response of metasurfaces is controlled by the geometrics of unit cells; however, the excellent functionalities of metasurfaces, such as a perfect absorber, epsilon-near-zero (ENZ), and metalenses, are normally fixed by its geometries. The advances in nano- and microelectromechanical systems (N/MEMS) technologies, offer an approach for tuning the structural reconfiguration of metasurface/plasmonics EM properties. The state-of-the-art articles that deal with the desirable properties of metasurfaces, including a large tunability, fast speed, small size, lightweight, ability to integrate, and compatibility of cost-effective fabrication processes are welcome. Topics include, but are not limited to:

- Metasurfaces for the modulation of amplitude, frequency, and polarization
- Metasurfaces for the manipulation of wavefronts
- Tunable metasurface-based holograms, Tuneable metasurface emitters and perfect absorbers
- Metasurface sensors, Active metasurfaces/plasmonics
- Novel tuning mechanisms
- Applications in biological imaging and sensing
- Communication-related applications

Guest Editors

Dr. Jun-Yu Ou

Zepler Institute, Optoelectronics Research Centre, University of Southampton, Southampton SO17 1BJ, UK

Dr. Kenzo Yamaguchi

Institute of Post-LED Photonics, Tokushima University, 2-1 Minamijosanjima-cho, Tokushima 770-8506, Japan

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Nelson Tansu

School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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