Special Issue

Nanoscale Photonics and Metamaterials (2nd Edition)

Message from the Guest Editor

Nanophotonics is an interdisciplinary subject that combines nanoscience and photonics and studies the interaction between light and matter at the nanoscale. Nanophotonics has become an active research field in recent years with growing interest in the exploration of new physics, materials, devices, and related technologies. Among them, metamaterials, as one of the subfields of nanophotonics, have been developing rapidly. The term "metamaterial" was first proposed by Professor Rodger M. Walser. Later, it came to be generally understood that "metamaterial" is an artificial material. Metamaterials can possess extraordinary physical properties that cannot be achieved with natural materials. The development of metamaterials and nanophotonics may lead to technological evolution in many fields. Their progress is currently in the brewing stage, warranting close attention and anticipation. This Special Issue presents the most recent development trends through a collection and analysis of the research conducted by experts and scholars in this field.

Guest Editor

Dr. Pao Tai Lin

Department of Electrical & Computer Engineering and Department of Materials Science & Engineering, Texas A&M University, College Station, TX 77843, USA

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

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Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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