

Special Issue

Advanced Nanomaterials for Biophotonics: Prognosis and Therapeutics

Message from the Guest Editor

The ultimate goal of nano and materials science world is to develop unique nanomaterials with optimal properties for biophotonics applications such as advanced molecular bioimaging for predicting prognosis and super-resolution imaging to reveal the cell-nanoparticle interactions; nano-biosensors; and application of light for depth limitless phototherapeutics. Recently, optical nanomaterials have drawn considerable attention owing to their unique fluorescence or luminescence emissions that can aid disease diagnosis, enabling treatment planning. In addition, significant achievements in phototherapy, including photodynamic and photothermal therapies, to treat deep seated tumors have also been attained. The Special Issue will highlight the extraordinary works on modern photonics research in biomedicine, focusing on optical properties of nanomaterials, nanofabrication, advanced imaging techniques, nano-biosensors; oncology, and photomodulation therapies.

Guest Editor

Prof. Dr. Leu-Wei Lo

Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes, Zhunan, Taiwan

Deadline for manuscript submissions

closed (30 November 2022)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



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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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Message from the Editor-in-Chief

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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