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Nanobiophotonics, Photomedicine, and Imaging

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Message from the Guest Editor

Dear colleagues,

Integration of optical signal amplification and phototherapy (i.e., photothermal therapy and photodynamic therapy) using nanosystems, nanotechnologies, and nanoparticles has unveiled exciting innovations in both non-invasive disease detection and smart therapeutic approaches. The main focus of this Special Issue is to cover the recent advances in newly developed nanobiophotonics, nanophototherapy, novel photomedicine, and state-of-the-art bioimaging platforms toward their potential applications in cancer targeting, neurological disorder treatment, pathogenic microorganisms sensing, wound healing, tissue engineering, cardiovascular diseases, and deep-tissue imaging. Furthermore, the content will aim to target “translational innovators” like chemists, biologists, and materials scientists, that aim to collaborate with clinicians and engineers to create new and smart NIR-nanotechnology/nanobiotechnology/optical nanomaterials to tackle crucial nanobiomedical problems.

Prof. Chih-Chia Huang

Guest Editor



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Special Issue



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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.

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