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Photosensitive Nanomaterials for Biomedical Applications

Guest Editor:

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Message from the Guest Editor

Current developments in the field of photosensitive nanostructured materials have a profound impact on many areas of biomedical applications. Some of the key issues concern the synthesis of photochemical active compounds and materials, and their characteristics, compatibility, toxicity, and bioactivity. The most fascinating advances in photomedicine and nanotechnology can be found in diagnosis and therapy, involving the direct use of nanomaterials and light in biological systems. Research into next-generation smart photosensitizers both in homogeneous and heterogeneous systems has gained prominence in recent years. The use of photosensitizers associated with different types of nanoscale delivery vehicles in particular has received strong interest within the field of the photodynamic therapy (PDT) and photodynamic inactivation of microorganisms (PDI).

This Special Issue aims to present innovative, high-quality original research articles as well as review articles on the synthesis, structure, physicochemical properties, and biological activity of photochemically active nanomaterials for biomedical applications.



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Special Issue



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Message from the Editor-in-Chief

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