Special Issue

Nanoparticles in Photodynamic Therapy

Message from the Guest Editors

Photodynamic therapy (PDT) is a minimally invasive therapeutic strategy that relies on the activation of photosensitizers (PSs) via light of a suitable wavelength to generate reactive oxygen species (ROS), leading to selective cytotoxic effects. However, many conventional PSs face limitations. To address these challenges, nanotechnology has enabled the development of advanced delivery systems that improve the pharmacokinetics, targeting, and photophysical properties of PSs.

This Special Issue aims to showcase recent advances in nanoparticle-assisted PDT, focusing on the design, synthesis, and application of nanosystems that respond to light and complementary physiological stimuli. Nanocarriers have demonstrated the ability to improve PS stability, enhance ROS generation, control release, and broaden therapeutic applicability. Applications of interest include oncological therapy and antimicrobial PDT (aPDT) targeting bacterial and fungal infections. We welcome original research and review articles addressing innovative nanoformulations, novel or enhanced PSs, combination strategies, and preclinical validation studies.

Guest Editors

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