

Special Issue

Novel Nanoparticles for Photothermal and Photodynamic Therapy

Message from the Guest Editors

Photothermal therapy has emerged as a highly promising strategy for the treatment of superficial and localized tumors. It is a minimally invasive technique that takes advantage of the increased sensitivity of cancer cells to heat, relying on the induction of thermal ablation of tumor cells through irradiation with light beams. In addition, it is also considered safe, enabling a faster recovery of the patient compared with other existing therapeutic approaches. An overview of several nanoparticles for photothermal and photodynamic therapy will be herein presented, with a focus on different methods of preparation and in vitro and in vivo studies, including clinical studies using this nanotechnological approach for cancer management.

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