

Special Issue

Innovative Applications of Nanotechnology and Photothermal Therapy in Cancer Treatment and Drug Delivery

Message from the Guest Editors

This Special Issue aims to showcase recent advancements in different nanotechnological approaches, including photothermal therapy (PTT) and drug delivery systems.

One of the key benefits of nanomedicine is its potential to address cancer metastasis, a major challenge in oncology. Furthermore, the combination of PTT with other treatment modalities, has shown promising results in achieving synergistic therapeutic effects against both primary and metastatic tumors. In addition, the development of multifunctional nanoplateforms that integrate imaging capabilities with therapeutic functions will allow for real-time monitoring of treatment progress and improved targeting of cancer cells.

Research areas may include (but need not be limited to) the following:

- Exploring new nanomaterial compositions for enhanced photothermal effects;
- Investigating synergistic effects of combined photothermal and chemotherapy approaches;
- Developing innovative in situ forming or shear-thinning hydrogels for local delivery;
- Addressing safety and environmental considerations of nanomaterials in healthcare;
- Examining regulatory pathways for nanomedicine products.

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