Special Issue

Nanomaterials for Cancer Photothermal Therapy

Message from the Guest Editor

Nanomaterials with specific properties can reach the tumor site and produce, upon interaction with laser radiation, a temperature increase that can damage cancer cells. For this purpose, NIR light is generally used due to its minimal interaction with biological components, ensuring a high tissue penetration depth and reduced off-target heating. Hence, nanomaterials with a high NIR absorption have been extensively investigated for cancer photothermal therapy. On the other hand, the assembly of nanostructures with NIRabsorbing materials has also been explored. The nanomaterials' photoinduced heat can also trigger other events like release of encapsulated agents, opening a venue for combining nanomaterials' mediated photothermal therapy with other therapeutic modalities. This Special Issue focuses on nanomaterials aimed for cancer photothermal therapy. Research articles covering the synthesis/formulation of novel NIR-lightresponsive nanomaterials, their functionalization and characterization, as well as their application in cancer combination therapy are welcome. Comprehensive reviews are also welcomed.

Guest Editor

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