Special Issue

Photothermal Therapy of Nanomaterials

Message from the Guest Editor

The extraordinary light-to-heat conversion property of nanomaterials (e.g., magnetic nanoparticles, plasmonic nanoparticles, etc.) can be utilized for realizing a new generation of minimally-invasive therapies for treating cancer and other incurable diseases. Bio-transparent optical radiations (700–900 nm) have been combined with engineered and functionalized nanomaterials for developing the so-called photo-thermal therapies. Both in vitro and in vivo studies have reported flourish achievements, although further research is needed. This Special Issue is devoted to overview both fundamental theories and advanced applications of nanomaterials as efficient nano-source of heat remotely controllable by light. We invite investigators to contribute with review and original papers reporting recent efforts in the field of nanomaterials based photo-thermal therapies.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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