Special Issue

Advanced Biomaterials for Early Detection, Drug Delivery, Treatment and Prognosis in Cancer

Message from the Guest Editors

Cancer remains one of the most difficult pathologies to treat owing to dense stroma, late detection, and resistance to drugs. The drawbacks of conventional drug delivery include nonspecific targeting, toxicity, reduced efficacy, and a low therapeutic index. Moreover, the lack of real-time prognosis often results in under- or overtreatment, ultimately leading to drug resistance or toxicity, respectively. This Special Issue aims to encourage the design and testing of advanced biomaterials for early detection, drug delivery, treatment, and prognosis that will overcome the limitations of conventional drug therapy. While the focus is on the synthesis and therapeutic/theranostic evaluation of these advanced biomaterials, this multidisciplinary field is extended to incorporate nano- and macroscale biophysical attributes of advanced biomaterials and their interaction with biological components both in vitro and in vivo. Manuscripts with a scientifically sound approach backed with mechanistic insights into therapeutic implications/translational effects are highly encouraged. Review articles covering the present state-of-the-art technologies are also welcomed.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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