Special Issue

Innovations in Cancer Nanotheranostics

Message from the Guest Editor

Nanotheranostics—biocompatible nanomaterials that serve both diagnostic and therapeutic roles—hold great promise in the diagnoses, treatment, and prevention of disease. Their intrinsically small dimensions, large surface area to volume ratios, and readily modified surface chemistries/physics afford enormous flexibility in platform design and function. Comprised of organic, inorganic, or hybrid organic-inorganic materials, nanotheranostics come in a wide variety of topologies with domains optimized for therapeutic/reporter conveyance and functionalized for pathology-targeting and enhanced biocompatibility/biodistribution. As such these platforms are uniquely qualified to address many of the current limitations of conventional drug delivery, like inefficient targeting and systemic toxicity, while simultaneously providing new capabilities, like real-time monitoring disease status and precision control of therapeutic release. This Special Issue focuses on the latest innovations in nanotheranostics that are specifically designed for the staging, diagnosis, treatment, and prevention of cancer.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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