Special Issue

Stimuli-Responsive Nanomaterials for Imaging and Therapy

Message from the Guest Editor

Nanomaterials that can respond to chemical, physical, and biological stimuli have demonstrated great potential for imaging and treating diseases. Compared with traditional imaging and therapeutic agents used in medicine, stimuli-responsive nanoagents have the advantage of changing their morphology, structure, composition, size, and charge. This Special Issue aims to call for reporting recent advances in stimuli-responsive nanomaterials for imaging and therapy, diagnosis, drug delivery, and the therapy of diseases in various fields, including cancer, infection, tissue engineering, interventional therapy, and so on. Research topics can include the preparation, assembly, surface modification, characterisation, and application of stimuli-responsive nanomaterials in imaging and therapy. Imaging modalities include but are not limited to magnetic resonance imaging (MRI), computed tomography (CT), positron emission tomography (PET), ultrasonography (US), fluorescent imaging (FLI), photoacoustic imaging (PAI), and so on.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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