

Special Issue

Intelligent Nanomaterials and Nanorobots for Disease Diagnosis and Treatment

Message from the Guest Editor

With the rapid development and wide applications of nanotechnology, Intelligent Nanomaterials and Nanorobots have been applied to local diagnoses and targeted therapies for patients with various diseases including cancer, diabetes, inflammatory disorders, and cardiovascular diseases. In comparison with conventional nanomaterials in biofluids, Intelligent Nanomaterials and Nanorobots can effectively convert diverse energy sources into movement and force, allowing effective self-propulsion in complex biological environments and physiological barriers. Therefore, Intelligent Nanomaterials and Nanorobots hold great potential for efficient cargo loading, controllable cargo delivery, stimuli-triggered cargo release, deeper tumor tissue penetration, and enhanced cargo accumulation in tumor tissues, exhibiting an exciting prospect for disease diagnosis and treatment.

This Special Issue emphasizes the construction of novel Intelligent Nanomaterials and Nanorobots, with a special focus on their potential advantages and applications for local diagnosis and targeted therapy.

Guest Editor

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Editor-in-Chief

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