Special Issue

Emerging Nanomaterials for Biosensing and Bioimaging

Message from the Guest Editor

Biomedical imaging modalities are used for the detection and diagnosis of different types of cancers and diseases in their early stages. Recently, nanomaterials have attracted much attention due to their wide-ranging applications in biomedical imaging and cancer therapy. With the progress made in nanotheranostics (both imaging and therapy agents), studying drugs' release, accumulation in target tissues, biodistribution, and treatment effectiveness are other subjects devoted attention to. Nanoparticles are becoming potentially transformative tools for cancer detection for a wide range of biomedical imaging modalities, including computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, optical imaging, and so on. Knowledge of the correlation between the application of nanoparticles as well as biomedical imaging modalities and the development of targeted nanoprobes may provide better cancer diagnoses in the future. This Special Issue calls for research papers and review articles, attempting to present recent studies on nanotheranostics used as nono-agents in various imaging modalities and platforms for cancer therapy.

Guest Editor

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Deadline for manuscript submissions

closed (25 September 2023)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/140975

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