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Nanomaterials for Biosensing, Bioimaging and Therapy: From Cancer to Alzheimer's Disease

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

Biosensing and bioimaging are two key technological areas that are highly indispensable for the next generation of point-of-care devices. Targeted drug delivery and therapy is another emerging paradigm in the field of theranostic nanomedicine. This Special Issue attempts to garner advances in these three areas with the advent of nanotechnology for both cancer and neurodegenerative diseases (Alzheimer's disease (AD) and Parkinson's).

Nanomaterials, in particular nanoparticles (NPs), have been widely used for biosensing, bioimaging and targeted drug delivery in various disease models. This Special Issue will focus on recent advances in various nanomaterials and NPs that can be used as probes for sensing (e.g., protein detection, fluorescence resonance energy transfer (FRET) biosensors) and imaging (cancer and Alzheimer's disease cell/animal imaging), using optical imaging, magnetic resonance imaging (MRI), computed tomography (CT), and other multimodal imaging techniques, and NPs as drug vehicles for targeted delivery and therapy.

More details, please refer to: mdpi.com/si/15340

Prof. Subramanian Tamil Selvan
Guest Editor

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Editor-in-Chief

Prof. Dr. Shirley Chiang
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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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