Special Issue

Fluorescence Nanoprobes: From Synthesis to Applications

Message from the Guest Editor

Fluorescence nanoprobes refer to nanostructures that can re-emit light upon light excitation for the detection of specific target locations and activation, identifying protein interactions and conformation changes in any chemical or biological processes in vitro and in vivo. Fluorescence nanoprobes have shown their unique properties because of their strongly fluorescent signal, excellent photostability, enhanced permeability and retention (EPR) effect, as well as versatile surface chemistry for various applications. The performance of the fluorescence nanoprobes is highly dependent on the design strategy and chemical synthesis methods. This Special Issue aims at collecting research articles that report the design, characterization, and prospective applications of fluorescence nanoprobes in molecular imaging, molecular interaction, image-guided delivery and release, theranostics and various target analysis, in a wide range of research fields, including nanotechnology, biotechnology, biomedical engineering and nanomedicine.

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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