

Special Issue

Advanced Nanomaterials for Bio-Imaging

Message from the Guest Editor

Recent advanced nanomaterials have served as an excellent platform for optical imaging biosensors to improve cancer detection, diagnosis, and image guided surgery while reducing the exposure of patients to harmful radiation caused by other traditional molecular imaging methods. Optical imaging is amenable to high throughput analyses because images can be acquired in a few seconds, and multiple subjects can be imaged simultaneously; thus, the method can be used for lengthy and repeated procedures over time, to monitor the progression of disease or the results of treatment. Optical imaging is also highly sensitive and cost effective, and it is straightforward to use. Importantly, a single nanomaterial can incorporate various imaging agents and target ligands followed by bioconjugation on the surface or encapsulation of molecules. Thus, rationally designed nanomaterials possess multimodality in imaging with minimal side effects to adjacent tissues and organs. We look forward to receiving contributions in these research areas that push the boundaries of this exciting new field.

Guest Editor

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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