# Special Issue

# Optical Imaging and Sensing

### Message from the Guest Editor

Optical imaging and sensing technologies are fundamental tools for chemical analyte detection and biological discovery. Fluorescence-based probes are widely used as sensors to detect and monitor various chemical and biological agents and activities due to their excellent selectivity, stability, reliability, and sensitivity. Fluorescent sensors can be classified into genetically encoded proteins, organic fluorophores, inorganic probes, and so on. In particular, fluorescent nanoparticles have shown excellent optical properties and functionalities for optical imaging and sensing. In recent years, with the development of advanced optical imaging technologies such as multiphoton fluorescence imaging, super-resolution imaging, and near-infrared-II fluorescence imaging, various fluorescent sensors have been developed and applied for sensing metal ions, amino acids, enzymes, toxins, biomarkers, neurotransmitters, proteins, antibodies, drugs, nucleic acids, gaseous species, and so on through optical imaging in vitro and in vivo. This Special Issue is addressed to all types of fluorescence-based sensors designed for chemical and biological imaging and sensing.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 April 2023)

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## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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