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Water-Soluble Fluorescent Sensors for Biological Detection

Guest Editor:

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Deadline for manuscript submissions:
closed (15 April 2022)

Message from the Guest Editor

In the past decades, there has been a growing interest in developing bright and stable fluorescent sensors with a fast response, high sensitivity, and high selectivity. For this purpose, researchers have developed a wide variety of organic and inorganic fluorescent sensing moieties, such as single small molecules, proteins, or nanoparticles. The choice of biological analytes is also very broad, including small molecules such as gases, sugars, and ions, or macromolecules such as DNA, enzymes, and proteins, detected in vivo or in vitro. Most of the time, sensing mechanisms involve energy transfer (e.g., FRET), photoinduced electron transfer, or intramolecular charge transfer between two distinct parts of the (macro)molecules, excited by one or two photons.

This Special Issue aims to emphasize researchers' creativity in the development of water-soluble fluorescent sensors, ranging from chemistry design to various choices of analytes and different sensing mechanisms.

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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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