Special Issue

1,8-Naphthalimide Derivatives as Signal Elements in Chemical Sensors

Message from the Guest Editor

The chemical sensors field has grown significantly due to the development of highly sensitive, selective, and stable sensor materials, including 1,8-naphthalamide derivatives. These derivatives have unique photophysical properties, structural flexibility, photostability, and functionalization ease, making them ideal for designing versatile chemical sensors. Varying electron donor substituent spatiality on the C-4 atom can produce different fluorescence intensities and colors. 1,8-Naphthalamides serve as excellent signal elements in optical sensors for environmental monitoring, industrial processes, medical diagnostics, and biological imaging due to their strong fluorescence, large Stokes shifts, and photostability. They can be tailored for specific analytes, resulting in highly selective sensors. This Special Issue focuses on original research and review articles related to 1,8-naphthalamide-based chemical sensor design, synthesis, and application.

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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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