Special Issue

Recent Advances in Luminescence-Based Sensors

Message from the Guest Editor

To date, many luminescent sensory materials have been developed for luminescence-based sensors. Among them, metal-organic frameworks (MOFs) have been extensively explored due to their unique crystallinity, tuneable porosity, structural diversity, abundant functional groups, and excellent chemical stability. Their luminescence can be generated from organic linkers and metal ions, as well as the interactions among them. In addition, the luminescence feature can also be adjusted by post-functionalization or encapsulation of luminescent guest species. In addition, carbon dots (CDs), covalent organic frameworks (COFs), layered double hydroxides (LDHs), and nanoclusters for coinage metals (Cu, Ag, and Au) are also emerging as paradigms to design luminescent materials for luminescence-based sensors.

The aim of this Special Issue is to collect papers on the recent advances in luminescence-based sensors from researchers and experts. The contributions can be studies on rational design/construction principles, synthesis strategies, mechanisms, and diverse applications of luminescent materials for luminescence-based sensors. Full papers, short communications, and reviews are all welcome.

Guest Editor

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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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