

Special Issue

Emerging Chemosensors Based on Polymers

Message from the Guest Editors

Recognition phenomena are intimately related to life where biomacromolecules are involved, such as DNA, RNA, or proteins. Thus, natural polymers play a pivotal role in life's milestones, where recognition or sensing have a complex nature. The identification of the key role of feeble chemical interactions on this recognition gave rise to the development of supramolecular chemistry.

We can mention, chemical species (including biomolecules), pH, temperature, and so on, that upon changing in the presence of the intelligent polymers, or contacting or reacting with them, induce a measurable change in shape, solubility, color, fluorescence, electrical or thermal conductivity, etc., where the magnitude of the change can be easily correlated with the measured signal that accompanied said change.

Thus, this Special Issue is focused on the development of sensory polymers as advanced intelligent materials for application in essay detection and quantification of target chemical species with industrial, environmental, civil, and health interests, along with the sensing related to biomedical/biological applications (diagnoses of diseases or biosensors).

Guest Editors

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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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