Special Issue

Recent Advances in Cellulose-Based Sensors

Message from the Guest Editors

New ecologies such as IoT, smart cities, Industry 4.0, and precise agriculture will characterize economic development during the coming decades. Sensors can give a relevant contribution to a sustainable implementation of such ecologies, enabling the acquisition of data required for more efficient exploitation of energy and raw materials. Silicon-based electronic technologies cannot cope with the realization of green sensing systems. There is a need for novel materials and technologies, capable of giving meaningful answers to the need for sustainable development. Technologies for sensor fabrication are required that use renewable raw materials, save energy, and yield devices whose disposal does not produce any relevant environmental impact. This Special Issue focuses on cellulose-based sensors. Contributions are sought on recent advantages in fabrication technologies, sensors, and sensing systems that exploit cellulose as the base of the materials.

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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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