Special Issue

Cantilever-Based Sensors

Message from the Guest Editors

Dear Colleagues Microcantilevers are typically rectangular-shaped bars, approximately 100–200 μm long, 20–40 μm wide, and 0.5–1 μm thick, and made of silicon or silicon nitride. Their mechanical response is often described as a very soft spring. The static deformation of a cantilever allows detection of the smallest forces with unprecedented sensitivity, whereas the resonance frequency of its dynamic response can be used to measure extremely small masses or fluid properties. Cantilever-based sensors have received considerable interest in the last few decades, as they offer an unparalleled opportunity for the development of highly sensitive biophysical and chemical sensors, employed in a very wide spectrum of applications. We would like to invite both review articles providing an up-to-date and critical overview of the state-of-the-art and original research articles that contain theoretical, analytical, and/or experimental investigations covering all aspects of cantilever-based sensors.

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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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