



## Cantilever-Based Sensors

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submissions:

**closed (31 December 2020)**

### Message from the Guest Editors

Dear Colleagues

Microcantilevers are typically rectangular-shaped bars, approximately 100–200  $\mu\text{m}$  long, 20–40  $\mu\text{m}$  wide, and 0.5–1  $\mu\text{m}$  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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## Message from the Editor-in-Chief

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