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Nanomechanical Sensors

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Deadline for manuscript
submissions:

closed (31 March 2020)

Message from the Guest Editors

Dear Colleagues,

Nanomechanical devices have attracted a significant amount of interest in the research community. Scaling mechanical components down to the nanoscale has several advantages—for example, low mass, high resonance frequency, superior sensitivity, and low power consumption, which opens the doors for several applications, such as chemical, biological, gas sensing, high frequency resonators, and nanomachines.

The aim of this Special Issue is to cover state-of-the-art progress in all aspects of nanomechanical devices. Research articles, short letters, and review papers will be considered. Contributions from both academia and industry are encouraged. Topics of interest include but are not limited to the following:

- Nanomaterials, e.g., graphene, carbon nanotubes, nanocomposites;
- Modeling and simulation of nanoscale phenomena;
- Nanomechanical sensors and actuators;
- NEMS-based resonators and timing solutions;
- Nanofabrication methods;
- Nanorobots;
- Nanophotonics.

Prof. Dr. Mourad N. El-Gamal

Dr. Mohannad Y. Elsayed

Guest Editors



mdpi.com/si/23830

Special Issue



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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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