



Novel Insights in MEMS/NEMS Resonant Devices

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Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we invite authors to submit original research articles and reviews on novel MEMS/NEMS resonant devices, such as resonant timing devices, sensing devices and computing devices, including but not limited to resonators, filters, oscillators, physical or bio-sensors, as well as frontier topics of resonant computing devices and optical and quantum nano-resonant devices. All aspects of resonator-related topics are welcome for this Special Issue, such as novel resonance phenomena, functional materials, micro/nano manufacturing and systems integration. Research areas may include but are not limited to the following:

- Novel transduction phenomena-based resonant devices;
- MEMS/NEMS resonators, filters, oscillators and micro/nano manufacturing;
- MEMS/NEMS resonant sensors for physical or bio application;
- Novel MEMS/NEMS computing resonant devices for AI application;
- Novel opto-MEMS and quantum nano-resonant devices;
- MEMS/NEMS resonator and ASIC circuits for system integration.

We look forward to receiving your contributions.





Editor-in-Chief

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Message from the Editor-in-Chief

The capability to manipulate, assemble, and fabricate nano-objects have given rise to nanoscience, one of the most rich and interdisciplinary fields of research. In fact, mechanics, optics, magnetism, or electronics at the nanoscale strongly differ from their macroscopic counterparts, and thus several disciplines are necessary to study nanomaterials. This field's development parallels the technical advances that have made it possible to control matter at the nanoscale. Our journal, *Nanomanufacturing*, seeks to provide a forum for discussion and a platform to publish the latest results regarding the fabrication, manipulation, scalability, and eventual industrial production of miniaturized devices or objects. All of our articles are published with rigorous refereeing and open access.

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