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Nanomechanical Biosensors

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Deadline for manuscript submissions:

closed (20 December 2018)

Message from the Guest Editors

Dear Colleagues,

Many fundamental biological processes, such as cellular biomolecular interactions. biomolecular signaling, machinery, and disease manifest as or arise from mechanical responses such as piconewton scale forces, subnanometer-scale displacements, elasticity changes, and mass variations Advances in micronanofabrication technologies enable us to achieve increasingly smaller mechanical transducers with microand nanosized moving parts, in which deformation and vibration are sensitively modified upon molecular adsorption. Nanomechanical biosensor are mechanical transducers with micron- or nanosized moving parts in which deformation and vibration at nanometer-scale are modified by tiny external and internal forces and added mass. In addition, since the size of the biomolecules are comparable to those of the dimensions of a mechanical system, mainly the thickness, the mechanical response is also highly sensitive to the mechanical properties of the adsorbed biomolecules, making this tool unique. Accordingly, this Special Issue seeks to showcase research papers, short communications, and review articles.

We look forward to receiving your submissions.













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Editor-in-Chief

Message from the Editor-in-Chief

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