

Nanomaterials for Biosensors and Biomedical Devices

Guest Editor:

Prof. Dr. Roger Narayan

Joint UNC/NCSU Department of
Biomedical Engineering, North
Carolina State University,
Raleigh, NC 27695, USA

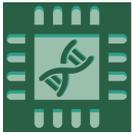
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Message from the Guest Editor

Nanomaterials contain components (e.g., clusters or surface features) with size between 1 nanometer and 100 nanometers. Nanomaterials may be prepared via top-down approaches or via bottom-up approaches; these materials have potential use in biosensors and other biomedical devices. Top-down manufacturing methods involve preparing nanomaterials through external control over shaping or patterning. Bottom-up manufacturing methods involve self-assembly of nanoscale constituents into larger assemblies. Recent advances involving the use of nanomaterials for biosensors and other biomedical devices have arisen due to two forces. First, there is a focus on nanomaterials since novel processing, characterization, and modeling methods have become available. Second, nanomaterials provide unique capabilities for interactions with small-scale biomedical structures such as nucleic acids and viruses. Nanomaterials may also integrate multiple functions in a single medical device, increase medical device stability, and decrease medical device cost. The Special Issue will consider recent advances in nanomaterials for biosensors and other biomedical devices.





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Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

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Biosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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