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Applications of Nanomaterials in Diagnostics and Therapeutics

Guest Editors:

Dr. Gabriele Ciasca

Fondazione Policlinico
Universitario Agostino Gemelli
IRCCS, Università Cattolica del
Sacro Cuore, Rome, Italy

Dr. Svetlana Jovanović

“Vinča” Institute of Nuclear
Sciences—National Institute of
the Republic of Serbia, University
of Belgrade, P.O. Box 522, 11000
Belgrade, Serbia

Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

Nanostructured materials and low-dimensional systems offer great opportunities in biomedicine thanks to their peculiar chemical and physical characteristics. The nanoscale features of these materials allow scientists to access enhanced optical, magnetic, electrical, mechanical, and thermal properties, which holding promise to revolutionize both diagnostic and therapeutic practice. Moreover, thanks to the advances in bioprinting and biofabrication, these novel functionalities can be successfully integrated with biological components in lab-on-chip platforms, which will have a large impact on precision and personalized medicine. This Special Issue aims to collect relevant contributions in the field of nanostructured materials applied to biomedicine in diagnostics and therapeutics.

- Research and review papers on the following topics are especially welcomed:
- Plasmonic devices for biomolecular sensing.
- Lab-on-chip devices for point-of-care clinical diagnostics.
- Nanotechnologies applied to extracellular vesicles detection, characterization, and production.
- Nanomaterials for drug delivery.



mdpi.com/si/127031

Dr. Gabriele Ciasca

Guest Editor

Special Issue



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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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