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Biomedical Applications of Nanotechnology

Guest Editor:

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Deadline for manuscript submissions:
15 September 2019

Message from the Guest Editor

Dear Colleagues,

Nanotechnology is currently in a position to pave the way to patient-specific personalized medicine, seamlessly connecting the route of innovative nanomaterials, from bench to bedside. Some of them have already deservedly occupied their niches for future biomedical applications as drug-delivering "nanobullets", supersensitive imaging probes, multifunctional theranostic systems, powerful antimicrobial agents, biosensors, "smart" biocompatible nanomaterials and implants, as well as tissue engineering scaffolds for regenerative medicine.

In this Special Issue of *Nanomaterials* we expect contributions from a broad community of scientists working on diverse applications of nanotechnology in biology and medicine, and interdisciplinary teams focusing on nanotechnology-enabled breakthrough solutions for biomedical research, diagnostics and advanced therapeutic approaches. As the safety of novel nanomaterials intended for the use in humans remains a matter of prime concern, we also anticipate the manuscripts dealing with these aspects of nanotechnology and nanomedicine in this Special Issue.

Prof. Yuri Volkov
Guest Editor

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Editor-in-Chief

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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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