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Advances in Antibacterial Laser-Fabricated Nanomaterials

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Message from the Guest Editor

Dear Colleagues,

This special issue of *Nanomaterials*, “Advances in Antibacterial Laser-fabricated Nanomaterials”, is devoted to the serious problem of antibiotic resistance of pathogenic bacterial micro-organisms, which is rapidly developing in bacterial cultures even under hospital conditions. This problem should be definitely and quickly solved to save human lives, being addressed from many – chemical, physical, micro-biological and other points. Meanwhile, innovative laser-fabricated nanomaterials – colloidal nanoparticles, nanotextures etc. – are highly welcome to make this service, holding a promise of highly-focused, facile high-tech applications without pronounced side effects. This issue will present a synergistic collection of innovative research results, which could in near future pave a way to emerging pioneering key-enabling approaches to antibacterial treatment and anti-fouling protection.

Accepted papers are published in the joint Special Issue in
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Prof. Sergey I. Kudryashov
Guest Editor



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Special Issue



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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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