



## (Al, Ga)N-Based Nanostructures for UV-C Optoelectronics

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

This Special Issue will be devoted to the problems of increasing the efficiency of UV-C optoelectronic devices by proposing new ideas in the field of both epitaxial growth of (Al,Ga)N nanoheterostructures using various technologies and post-growth processing of structures. This activity was started in the previous Special Issue “Semiconductor Heterostructures with Quantum Wells, Quantum Dots and Superlattices”, and in this issue, we welcome new approaches to create (Al,Ga)N-based nanoheterostructures with an accuracy of several monolayers and controlled change in composition and elastic stresses. Special attention will be paid to the study of epitaxial growth modes of monolayer-thick (Al,Ga)N nanoheterostructures, charge carrier localization effects, and exciton nature of luminescence in such quantum-sized structures.

Dr. Valentin Jmerik

*Guest Editor*





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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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