



Semiconductor Heterostructures (with Quantum Wells, Quantum Dots and Superlattices)

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Numerous technologies have been developed for the manufacture of heterostructures—from basic liquid epitaxy at the initial stages to various modern technological platforms for the physicochemical synthesis of nanoheterostructures using different phases of substances in a wide range of growth conditions. The broadest possibilities of these precise technologies allow for developing devices based on new phenomena in heterostructures with unprecedented parameters of efficiency, sensitivity, and speed.

The aim of this Special Issue is to present current state-of-the-art findings and progress in different fields of physics and technologies of semiconductor nanoheterostructures. Special attention will be paid to actual problems of theoretical and experimental studies of new physical properties and applicability of heterostructures including quantum wells, quantum dots as well as superlattices based on various material systems (III-V, III-N, II-IV etc.) We also welcome new ideas on the nanofabrication of such heterostructures with an accuracy of up to a few monolayers with controlled changes in the composition and elastic stress.





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Message from the Editor-in-Chief

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