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Growth of Catalyst-Free InN Nanocolumns

Guest Editors:

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Considerable progress in device applications has been demonstrated recently, including the fabrication of thin-film transistors, infrared photodetectors, lasers and optical amplifiers, photovoltaic converters, and a number of terahertz-range devices.

As predicted in theory and demonstrated experimentally, one-dimensional (1D) nanostructures allow the growth of high-quality nitride material on various substrates and significantly reduce the density of defects. Catalyst-free and catalyst-assisted methods have been widely used for the synthesis of low-dimensional III-nitrides nanostructures. Submissions to this Special Issue, entitled "Growth of Catalyst-Free InN Nanocolumns," are welcome in the form of original research papers or short reviews that reflect the state of research on this important subject. Topics of interest include, but are not limited to: mechanisms of 1D InN growth, characterization of 1D InN nanostructures, and applications of InN-related nanostructures.

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