Special Issue

Growth of Catalyst-Free InN Nanocolumns

Message from the Guest Editors

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.

Prof. Dr. Fang-I Lai

Guest Editors

Prof. Dr. Shou-Yi Kuo

Prof. Dr. Fang I. Lai

Dr. Wei-Chun Chen

Dr. Jui-Fu Yang

Deadline for manuscript submissions

closed (30 April 2022)

Catalysts

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

Author Benefits

High Visibility:
indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:
JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).