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Growth, Structural Identification, and Characterization of Semiconductor Alloys and Low-Dimensional Heterostructures

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Message from the Guest Editor

Structural, electrical, phonon, and thermodynamic characteristics of bulk semiconductor alloys and heterostructures (multi-quantum wells (MQWs) and superlattices (SLs)) have provided strong foundations for the advancement of modern technology. These efforts have helped scientists and engineers to design electronic devices to meet growing societal needs, viz., photovoltaics, fuel cells, batteries, thermo-electrics, and photonics as well as information and data storage for biological and medical applications. This Special Issue on “Growth, Structural Identification, and Characterization of Semiconductor Alloys and Low-Dimensional Heterostructures ” deals with different aspects of novel bulk elemental (group IV) and/or compound semiconductors (e.g., III-V, III-N, II-VI, and IV-IV), their alloys, and low-dimensional heterostructures—especially for comprehending their structural, electronic, vibrational, and thermal transport characteristics.

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Message from the Editor-in-Chief

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