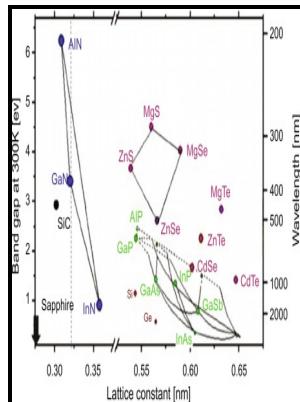


III-nitride semiconductors - electrical, structural, and defects properties

Elsevier - III



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Notes: Includes bibliographic references and index.

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These simulations take into account the NW hexagonal cross-section with m sidewall facets, with the dimensions extracted from our STEM measurements, including the presence of the AlN shell and the alloyed regions that were assumed to have a composition of Ga 0.

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Details of the NW growth and TEM sample preparation using the cleaving technique can be found in den Hertog et al. We verified that the step in phase over the AlN top region is consistent with the thickness and the MIP of AlN.

III

The reduction in the lattice parameter by nitrogen is then balanced by the co-incorporation of an atom of larger atomic radius, such as In or Sb. The current level of activity in nitride semiconductors was inspired largely by the results of Akasaki and co-workers and of Nakamura and co-workers in the late 1980s and early 1990s in the development of p-type doping in GaN and the demonstration of nitride-based LEDs at visible wavelengths.

Nitride Semiconductor

Therefore, we can set an upper limit of 15% on the maximum number of vacancies present in the central core column. Palmer, in , 2011 4.

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