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Strain in III–V Materials and Devices: Methods for Estimation and Effects

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editor

The goal of this Special Issue is to collect articles on methods for the estimation of strain in III–V materials and devices, and on the effects of strain on these materials and devices. The intent is to provide, in one issue, information on the performance and limitations of the various methods to estimate strain, to demonstrate the measurement techniques, and to illustrate the effects of strain on III–V devices and materials.

Submissions that discuss and demonstrate new methods for the estimation or measurement of strain are encouraged. These new methods could include machine-assisted learning or finite element method (FEM) simulations coupled with optical measurements of some type.

In addition, submissions that report original measurements of the effects on strain on III–V devices are encouraged. The strain in these original measurements could be caused by die attach, wafter bonding, diffusion, dielectrics, metallization, geometry, or any of the many fabrication steps required to make a device.

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Message from the Editorial Board

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