



Latest Progress in Wide Band-Gap Semiconductors

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Deadline for manuscript
submissions:

closed (1 January 2022)

Message from the Guest Editors

Semiconductor material systems have now entered a new era, driven by demands stemming from accelerating advances in science and technology, which push forward the development of wide bandgap semiconductor materials and devices toward high power, low energy consumption, multiwavelength band, ultrafast response, miniaturization, and high integration degrees.

The topics covered within this Special Issue include but are not limited to the following:

- The epitaxial growth of the wide band gap semiconductors (III-nitride semiconductors, SiC, ZnO, diamond, Ga₂O₃, etc.) and their low-dimensional quantum structures;
- Optical and electronic properties, doping and defects, structural analysis, and defect characterization;
- Optical devices such as micro-LEDs, VCSEL, edge emitting laser diodes, UV-LEDs, UV-laser diodes, single photon emitters, photodetectors, and intersubband emitters;
- Electronic devices for high power switching, high frequency, RF applications, etc.;
- Novel materials, nanostructures, and device concepts





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Message from the Editor-in-Chief

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