



Wide Bandgap Semiconductor: From Epilayer to Devices

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Message from the Guest Editors

Power electronic devices are competent in controlling and converting electrical power consumption and are utilized in home appliances, automotives, industries, defense system, aerospace, renewable energy systems, and utility systems. In the modern world, energy-efficient reliable electronic devices are inevitable to reduce power consumption. Recently, wide bandgap (WBG) semiconductors have emerged as potential candidates for next-generation power electronic devices with advantages such as larger operating temperature, energy efficiency, high carrier mobility, high critical breakdown fields, faster switching, and high radiation resistance.

The present Special Issue of *Electronics* is planned as a collection of reviews and research articles on the epitaxy of WBG semiconductors and devices related to the area. The potential topics of interests include but are not limited to research on epitaxy, simulations, characterizations, and devices of SiC, GaN, Ga₂O₃, AlN, and diamond.

Keywords

- wide bandgap
- power device
- SiC
- GaN
- Ga₂O₃
- diamond





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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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