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Wide-Bandgap Semiconductor Materials, Devices and Systems

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Message from the Guest Editors

This Special Issue is titled ‘Wide-Bandgap Semiconductor Materials, Devices and Systems’, and the materials include but are not limited to GaN, Ga₂O₃, SiC, ZnO, AlN, and diamond. More specifically, the scope of this Issue covers common key technological research topics for the study of material properties, device performance and system design of wide-bandgap semiconductors. The topics of interest are as follows: Material epitaxy (epitaxial structure design, material and electrical characterization, etc.); microelectronic fabrication processes (etching process research, ohmic contact improvement, breakdown voltage enhancement, gate dielectric engineering, etc.); novel device design and application (monolithic integrated devices, vertical devices, multi-gate devices, sensors, ferroelectric devices, etc.); semiconductor device physics (device reliability, failure analysis, modeling, etc.); and advanced system integration (power supply systems, power amplifier architecture, circuit efficiency improvement, advanced packaging, etc.). The above topics are just for your reference. Any related topics not mentioned above are also acceptable for this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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