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Nano/Micro and Bio-Inspired Materials on Wide-Bandgap-Semiconductor-Based Optoelectronic/Power Devices

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Message from the Guest Editor

Recently, nano/micro and bio-inspired materials in wide-bandgap-semiconductor-based methodologies for developing optoelectronic and power devices have been increasing rapidly in the field of solid-state technology. Studies of the electrical, optical, structural, and morphological properties of wide-bandgap semiconductors have received enormous interest for future-generation devices. Significant advances have occurred in the growth of wide-bandgap semiconductors on different types of substrates in the crystalline field. However, no biomaterials have demonstrated the required low cost and stability, owing to a lack of the desired inherent material characteristics. Therefore, it is important to establish strategies to find and fulfill these requirements including hybrid solid-state technologies. The main contribution of the present Special Issue is “Nano/Micro and Bio-Inspired Materials on Wide-Bandgap Semiconductor-Based Optoelectronic/Power Devices”. We believe that this Issue is theoretically and practically needed at present to discover the outstanding future devices.



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Special Issue



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Message from the Editor-in-Chief

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