

Handbook of Zinc Oxide and Related Materials: Volume Two, Devices and Nano-Engineering (Electronic Materials and Devices) (Volume 2)

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Through their application in energy-efficient and environmentally friendly devices, zinc oxide (ZnO) and related classes of wide gap semiconductors, including GaN and SiC, are revolutionizing numerous areas, from lighting, energy conversion, photovoltaics, and communications to biotechnology, imaging, and medicine. With an emphasis on engineering and materials science, **Handbook of Zinc Oxide and Related Materials** provides a comprehensive, up-to-date review of various technological aspects of ZnO.

Volume Two focuses on devices and nanostructures created from ZnO and similar materials. The book covers various nanostructures, synthesis/creation strategies, device behavior, and state-of-the-art applications in electronics and optoelectronics. It also provides useful information on the device and nanoscale process and examines the fabrication of LEDs, LDs, photodetectors, and nanodevices.

Covering key properties and important technologies of ZnO-based devices and nanoengineering, the handbook highlights the potential of this wide gap semiconductor. It also illustrates the remaining challenging issues in nanomaterial preparation and device fabrication for R&D in the twenty-first century.

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Editorial Review

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Zhe Chuan Feng is a professor in the Graduate Institute of Photonics and Optoelectronics and Department of Electrical Engineering at National Taiwan University. Dr. Feng has previously worked at Emory University, National University of Singapore, EMCORE Corporation, Institute of Materials Research and Engineering in Singapore, Axcel Photonics, and Georgia Tech. He has edited/coedited nine books and published roughly 500 scientific papers. His work focuses on materials research and MOCVD growth of LED, III-Nitrides, SiC, ZnO, and other semiconductors/oxides.

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