



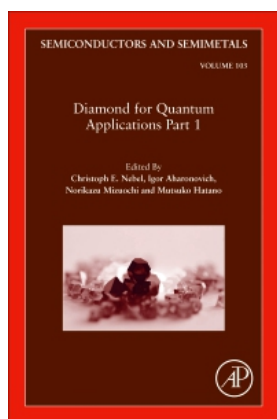
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## Semiconductors and Semimetals

ISSN: 0080-8784

Series Editor:

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## Upcoming / Recent Volumes

2020年刊行

**Volume 105: Semiconductor Quantum Science and Technology** **Coming Soon**

Serial Volume Editors: Steven Cundiff and Mackillo Kira

eBook ISBN: 9780128202418 Hardcover ISBN: 9780128237731

Semiconductors and Semimetals series, highlights new advances in the field, with this new volume presenting interesting chapters. Each chapter is written by an international board of authors.

**Volume 104: Ultrawide bandgap semiconductors** **Coming Soon**

Serial Volume Editor: Yuji Zhao

eBook ISBN: 9780128228715 Hardcover ISBN: 9780128228708

Ultrawide Bandgap Semiconductors, Volume 104 in the Semiconductors and Semimetals series, highlights new advances in the field, with this new volume presenting interesting chapters. Each chapter is written by an international board of authors who examine such topics as Gallium oxide power devices, Advanced concepts in Ga<sub>2</sub>O<sub>3</sub> power and RF devices, Material epitaxy, doping, and transport properties of (Al,Ga)<sub>2</sub>O<sub>3</sub> alloys and heterostructures, Thermal science and engineering of Ga<sub>2</sub>O<sub>3</sub> materials and devices, Controlling different phases of gallium oxide for solar blind photodetector and power electronics applications, Nanoscale AlGa<sub>N</sub> and BN: epitaxy, properties and device application, High-Al content AlGa<sub>N</sub> heterostructures and devices.

# Upcoming / Recent Volumes

2020 年刊行

## Volume 103: Diamond for Quantum Applications

Serial Volume Editors: Christoph Nebel, Igor Aharonovich, Norikazu Mizuochi and Mutsuko Hatano

eBook ISBN: 9780128202418 Hardcover ISBN: 9780128202401

Diamond for Quantum Applications, Volume 103, the latest release in the Semiconductors and Semimetals series, highlights new advances in the field, with this new volume presenting interesting chapters on a variety of timely topics. Each chapter is written by an international board of authors.

2019 年刊行

## Volume 102: III-Nitride Electronic Devices

Serial Editors: Rongming Chu, Keisuke Shinohara

eBook ISBN: 9780128175453 Hardcover ISBN: 9780128175446

III-Nitride Electronic Devices, Volume 102, emphasizes two major technical areas advanced by this technology: radio frequency (RF) and power electronics applications. The range of topics covered by this book provides a basic understanding of materials, devices, circuits and applications while showing the future directions of this technology. Specific chapters cover Electronic properties of III-nitride materials and basics of III-nitride HEMT, Epitaxial growth of III-nitride electronic devices, III-nitride microwave power transistors, III-nitride millimeter wave transistors, III-nitride lateral transistor power switch, III-nitride vertical devices, Physics-Based Modeling, Thermal management in III-nitride HEMT, RF/Microwave applications of III-nitride transistor/wireless power transfer, and more.

## Volume 101: Future Directions in Silicon Photonics

Serial Volume Editors: Chennupati Jagadish, Sebastian Lourdudoss, John E. Bowers

eBook ISBN: 9780128205181 Hardcover ISBN: 9780128188576

Future Directions in Silicon Photonics, Volume 101 in the Semiconductors and Semimetals series, highlights new advances in the field, with this updated volume presenting the latest developments as discussed by esteemed leaders in the field silicon photonics.

## Volume 100: Photonic Crystal Metasurface Optoelectronics

Serial Volume Editors: Weidong Zhou, Shanhui Fan

eBook ISBN: 9780128175439 Hardcover ISBN: 9780128175422

Photonic Crystal Metasurface Optoelectronics, Volume 101, covers an emerging area of nanophotonics that represents a new range of optoelectronic devices based on free-space coupled photonic crystal structures and dielectric metasurfaces. Sections in this new release include Free-space coupled nanophotonic platforms, Fano resonances in nanophotonics, Fano resonances in photonic crystal slabs, Transition from photonic crystals to dielectric metamaterials, Photonic crystals for absorption control and energy applications, Photonic crystal membrane reflector VCSELs, Fano resonance filters and modulators, and Fano resonance photonic crystal sensors.

2018 年刊行

## Volume 99: Silicon Photonics

Serial Volume Editors: Chennupati Jagadish, Sebastian Lourdudoss, Ray Chen

eBook ISBN: 9780128155196 Hardcover ISBN: 9780128150993

Silicon Photonics, Volume 99 in the Semiconductors and Semimetals series, highlights new advances in the field, with this updated volume presenting interesting chapters on Transfer printing in Silicon Photonics and more.

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