



Recent Advances in III-Nitride Semiconductors and Correlated Wide Bandgap Semiconductors, 2nd Edition

Guest Editors:

Prof. Dr. Peng Chen

1. Jiangsu Provincial Key Laboratory of Advanced Photonic and Electronic Materials, School of Electronic Science and Engineering, Nanjing University, Nanjing 210023, China
2. Nanjing National Laboratory of Microstructures, Nanjing University, Nanjing 210093, China

Prof. Dr. Zhizhong Chen

State Key Laboratory for Artificial Microstructure and Mesoscopic Physics, School of Physics, Peking University, Beijing 100871, China

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Message from the Guest Editors

Dear Colleagues,

The interest in group-III nitrides lies in their irreplaceable and efficient blue-UV luminescence capability. Recently, more correlated wide-bandgap semiconductor materials, including Ga_2O_3 , NiO , diamond, LiNbO_3 , and AlScN , have been at the forefront of research. Nitrides, along with those wide bandgap materials, are promising candidates for next-generation power electronic applications because of their outstanding material properties, but their potential is far from being realized, and many material properties and device mechanisms still require investigation.

The topics include, but are not limited to, the following subjects:

- Growth of III-nitride semiconductors and correlated wide-bandgap semiconductor materials and micro/nanostructures;
- Characterization of these materials and the heterostructures;
- Novel devices, including emission, detection, and power devices;
- Application and integration of these materials and novel devices in novel electronics and photonics





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, Italy

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
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