



Advances in Gallium Nitride-Based Materials and Devices

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Message from the Guest Editors

Dear Colleagues,

A current challenge of modern science is the development of better light sources and electronic components able to work with high frequency and power. Gallium nitride (GaN) and other GaN-based alloys in the wurtzite form are very good candidates to fulfil these requirements. As a breakthrough moment in the development of research topics related to GaN should be considered the mastering of the technique of doping this semiconductor. Despite the recent progress in GaN-based technology, many challenges must be still overcome in material quality and devices design, and for that reason those materials are still of great interest in both research and technology. Well-mastered techniques of growth enable the formation of semiconductor structures with desired electronic parameters through creating GaN-based alloys with other elements. This gives a high possibility of creating diverse substrates for electronic devices.

Therefore, we invite researchers to contribute to this Special Issue on Properties and Engineering of Gallium Nitride-Based Materials and Devices, covering a broad spectrum of topics from basic studies to the application of new electronic materials.





Editor-in-Chief

Prof. Dr. Helmut Cölfen

Physical Chemistry, Universität
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Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

Crystals is a good platform for dissemination of knowledge in this area.

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