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Advances in Epitaxial (Nano)-Materials for Optoelectronics

Guest Editor:

Dr. Achim Trampert
Paul-Drude-Institute, Berlin,
Germany

Deadline for manuscript
submissions:

closed (20 April 2022)

Message from the Guest Editor

Dear Colleagues,

The Special Issue titled “Advances in epitaxial (nano)-materials for optoelectronics” addresses current progress and challenges in materials research for optoelectronic application. The scope of this issue includes but is not limited to the following topics:

- Extreme heteroepitaxy (incl. heteroepitaxy of very dissimilar materials): theory and experiment
- III-V on Si integration and technology
- Van der Waals epitaxy of 2D materials and heterostructures
- Strain relaxation and defect formation mechanisms
- Interface engineering, structural configuration, and chemistry
- Novel substrate materials and smart concepts for epitaxy
- Advanced structural characterization methods (large scale analysis, nanoanalytics, in-situ methods, etc.)



mdpi.com/si/56033

Special Issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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