Special Issue

Advances in Epitaxial (Nano)-Materials for Optoelectronics

Message from the Guest Editor

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.)

Guest Editor

Dr. Achim Trampert

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Deadline for manuscript submissions

closed (20 April 2022)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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