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# **III-V Heteroepitaxy for Solar Energy Conversion**

Guest Editor:

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Deadline for manuscript submissions:

closed (28 February 2019)

## **Message from the Guest Editor**

The III-V material system dominates optoelectronic technologies—except for solar energy conversion, where the high cost still constrains commercial success in niche markets. Vast promises and critical bottlenecks associated with III-V materials in solar energy generation constitute a challenging context for the current Special Issue.

This Special Issue is intended to provide a unique international forum, aimed at exploring both technological perspectives and commercialization prospects of epitaxial III-V absorbers, with respect to future sustainable systems.

This volume, especially, is open to visionary and/or interdisciplinary work addressing advanced epitaxial devices or components for solar energy systems, or prospects for their widespread application. Subject areas of particular interest include:

- Advanced solar absorber structures and concepts
- Multi-junction photovoltaics and device implementation strategies
- Efficient solar fuel generation and material durability
- Structural characterization and in situ analysis
- High-volume production and emerging growth techniques
- Alternative substrates and substrate reuse
- Sustainability and economic viability









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## **Message from the Editor-in-Chief**

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