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CIGS Thin Films and Solar Cells

Message from the Guest Editors

In the past few years, thin film solar cells based on Cu(In,Ga)Se₂ (CIGS) have achieved remarkable progress in terms of conversion efficiencies (>22%) and production capacity, exceeding 1 GW/year. However, the field faces continuous evolution and further improvements are awaited, both in fundamental studies and in applications.

In addition, the opto-electronic properties of CIGS, such as high photon absorbance and a tuneable composition, make them attractive for a range of novel structures (bifacial, flexible, semi-transparent, tandem cells) to increase light harvesting and for use in the emerging field of BIPV (building integrated) or PIPV (product integrated).

This Special Issue of Applied Sciences, “CIGS Thin Films and Solar Cells”, is intended for a wide and interdisciplinary audience, and covers recent advances in:

- innovative concepts to increase CIGS-based device performance and to reduce costs
- development of new deposition techniques and processing
- alternative CIGS solar cell architectures
- improved characterization methods and theoretical modelling
- optimization of the CIGS modules and updated market analysis.

Welcome to submit !!!

Submission Deadline:

30 November 2018

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mdpi.com/si/15434

Special Issue