

Advanced Thin Film Materials for Photovoltaic Applications

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to critical reviews and original research articles on "Advanced Thin Film Materials for Photovoltaic Applications". The main aim is to share new knowledge on this subject, by publishing the latest developments in materials and thin film photovoltaics.

In particular, the topics of interest include, but are not limited to:

- New materials for PV applications
- CdTe and related materials
- CuInGaSe₂ and related alloys
- High efficiency Dye sensitized solar cells
- Kesterites
- Perovskites
- Organic PV materials and devices
- Hybrid solar cells
- Graded bandgap multi-layer devices
- New device concepts and architectures for next generation of solar cells

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Special Issue

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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