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Solar Photovoltaics Trilemma: Efficiency, Stability and Cost Reduction 2018

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Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editors

This Special Issue focuses on very specific issues related to the efficiency of photovoltaic (PV) systems, the stability of devices, and cost reductions at the module level. However, it is not limited to these; it also includes the most promising topics of emerging PV areas, such as perovskite solar cells (PSCs), dye-sensitized solar cells (DSSCs) and biomimicking for solar energy conversion. The new generation of solar cells with particular applications and their specific location studies are also important in terms of stability of devices in real or simulated conditions. The modelling aspects of PV materials and systems are also an area of focus. The following topics of research are also acceptable in this Special Issue:

1. PV materials, stability, scaling up engineering and production
2. Thin film solar cell materials and methods
3. Perovskite thin film solar cell materials, methods, stability and cost reduction
4. Third generation solar cell materials, methods and stability
5. Concentrating PV
6. Renewable energy system integration
7. Biomimicking for Solar energy conversion
8. PSCs and their scale up issues
9. Smart switching materials



mdpi.com/si/15171

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

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