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Highly Efficient and Stable Hybrid Perovskite Solar Cells

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Deadline for manuscript submissions:
closed (30 November 2020)

Message from the Guest Editor

We invite submissions to a Special Issue of the journal *Energies* on the topic of Highly Efficient and Stable Hybrid Perovskite Solar Cells.

Halide Perovskites have attracted huge interest in the photovoltaic field thanks to their outstanding optical/electrical properties, such as a high absorption coefficient and long diffusion length. In recent years, a power conversion efficiency up to 24.2% has been demonstrated thanks to the optimization of the perovskite materials and the interfaces. Furthermore, low-cost and easy manufacturing by solution processing are important topics for the industrialization of perovskite solar cell (PSC) technology. Nevertheless, long-term stability is the main issue to solve. The main degradation factors of the performance of the PSCs are related to the moisture, temperature, and light exposure.

This Special Issue is devoted to original research articles and reviews focused on the investigation of new materials, architectures, and processing methods able to further improve the efficiency and/or the stability of the PSC cells.

Keywords: solar power; halide perovskites; perovskite solar cell; power conversion efficiency long-term stability.

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Message from the Editor-in-Chief

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