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Perovskite Photovoltaics: From Materials to Device Applications

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Hybrid organic–inorganic perovskite solar cells have sparked significant research interest and have developed rapidly. The focus of this Special Issue will be on the technology of perovskite thin films and perovskite devices. Excellent perovskite film and crystal properties can effectively improve the device's stability and energy conversion efficiency. This has been extensively used to improve device efficiency, particularly in interface passivation, crystal optimization, etc. The aim of this Special Issue is to present the most recent experimental and theoretical advances in the field through a combination of original research papers and review articles from leading groups worldwide.

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

- Interface passivation and crystal optimization of perovskite films;
- Preparation of indoor perovskite photovoltaic devices;
- Optimization process of lead-free perovskite devices;
- Preparation of novel two-dimensional perovskite devices.

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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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