Special Issue

Perovskite Solar Cells and Tandem Photovoltaics

Message from the Guest Editor

Perovskite solar cells (PSCs) based on various materials, such as all-inorganic and organic–inorganic perovskite-based light-absorbing materials, have shown great potential for high-efficiency photovoltaic applications. The performance of these devices depends on several factors, such as light absorption, the bandgap of the materials, charge carrier dynamics and transport, and the interfacial charge transfer phenomenon. Understanding these factors is essential for improving the stability and commercial viability of this astonishing technology. Moreover, developing new materials, mechanisms of research, and device architecture with improved efficiency and stability of perovskite and perovskite-based tandem solar cells is also highly desirable.

We are particularly interested in papers that explore the development of new materials, device architectures, and improved photovoltaic and optoelectronic characteristics of perovskite and perovskite-based tandem solar cells. This Special Issue aims to provide a comprehensive overview of the current state of the art and future perspectives in this field. We welcome your submissions to this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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