Special Issue

Advances in Electrodes for Perovskite Solar Cells

Message from the Guest Editors

At present, perovskite solar cells, (PSCs) are used in academia and industry due to their exceptional optoelectronic material properties. Furthermore, the commercial feasibility and appeal of PSCs are strongly supported by their low-cost solution-friendly manufacturing methods, which are unprecedented among mainstream silicon-based cells. The potential of PSCs is clearly evidenced by the record-breaking cell efficiency progression rising from ~3% in 2009 to over 25% to date. In PSCs, as well as all other solar cells, electrodes (opaque and transparent) are essential components that critically affect the cells' photovoltaic performance and manufacturing complexity/cost. The rapidly growing interest in PSCs has fueled cell electrode research for PSCs, with there being remarkable progress recently. This Special Issue aims to present the most recent advances related to the performance, stability, material, design, and fabrication of all types of electrodes for perovskite solar cells.

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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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