Special Issue

Excitonic Solar Cells

Message from the Guest Editors

Photovoltics attracts great interest in academic research and technology development as one of the most cost-effective and direct approaches of providing nearly unlimited and environmentally-friendly energy to modern society. Excitonic solar cells are among the most flexible in terms of design and applications; variable in composition; as well as esthetic and inexpensive photovoltaic solutions. Polymer, nanostructured and dye sensitized solar cells belong to excitonic solar cells and are developed very fast in the past few years. In this Special Issue, we aim at various issues related to the development of these three types of solar cells, including materials and devices, as well as key processes and challenges associated with function of excitonic solar cells.

- polymer solar cells
- nanostructured solar cells
- dye sensitized solar cells
- charge photogeneration
- separation
- recombination
- transport and extraction

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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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