Special Issue

Advanced Dye-Sensitized Solar Cells

Message from the Guest Editor

The highest energy conversion efficiency of dye-sensitized solar cells is reported to be ca. 14%, and there is still plenty of room to further improve the energy conversion efficiency. For this purpose, sustained fundamental research is required not only for the development of high performance dyes, photoanode (TiO2, etc.), and redox species, but also for the exploration of a new mechanism to overcome the energy loss in dye-sensitized solar cells such as a direct photocarrier injection mechanism. This Special Issue aims to contribute to advanced dye-sensitized solar cells through enhanced scientific and multi-disciplinary knowledge to improve the cell performance and stability. We therefore invite papers and reviews on fundamental research and innovative technical developments from different disciplines to pave the way to advanced dye-sensitized 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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