



Fabrication of Electrodes for Dye-Sensitized Solar Cells

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Message from the Guest Editor

Dye-sensitized solar cells (DSSCs), which are based on clean and sustainable solar energy, remain at the cutting edge of research. DSSCs offer the possibility to design low-cost solar cells with a high degree of flexibility in shape, color, and transparency. However, much more research needs to be done to commercialize them, and efforts need to focus on the development and optimization of each component of DSSCs in order to increase their long-term stability and efficiency while reducing costs and the environmental impact of the used materials. Moreover, in accordance with the theoretical maximum efficiency, which is suggested to surpass the Schottky–Queisser limit of 33%, designing tandem DSSCs could be a way to overcome their performance bottleneck. Electrodes are considered to be crucial components of DSSCs. They can be used to improve the photovoltaic performance, long-term stability, and cost of the devices that control photoconversion processes, such as dye adsorption, charge separation, light scattering, and electron transportation, and the regeneration of the redox mediator.





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Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

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