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Fabrication of Electrodes for Dye-Sensitized Solar Cells

Guest Editor:

Dr. Marinela Miclau

National Institute for Research
and Development in
Electrochemistry and Condensed
Matter, Timisoara, Romania

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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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Special Issue



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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, Italy

Message from the Editor-in-Chief

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Contact Us

Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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