Special Issue

Fabrication of Electrodes for Dye-Sensitized Solar Cells

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.

Guest Editor

Dr. Marinela Miclau

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

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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