



Photoanodes and Counter Electrodes for Dye Sensitized Solar Cells

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Message from the Guest Editor

Dye-sensitized solar cells (DSSCs) have been intensively studied for more than 25 years since the epoch-making report by O'Regan and Grätzel (Nature, 353, 1991, 737). Due to their low-cost, low-toxic, and easy-handling features, DSSCs are still fascinating as a versatile power source all over the world. Among their constituents, photoanodes consisting of transparent conducting electrodes, inorganic semiconductors, and organic or complex dyes play a crucial role for generating large photocurrents.

This Special Issue welcomes contributions from all areas related to photoanodes and counter electrodes in DSSCs; for example, fabrication of novel photoanode structures, utilization of novel semiconductor materials, development of novel sensitizers, optimization of transparent conducting layers, creation of novel counter electrodes, synthesis of novel electrocatalysts, and so on. It is highly expected that this issue also provides new ideas for generating large photocurrents beyond the current DSSC scheme by comprising all aspects of photoanodes and counter electrodes.

