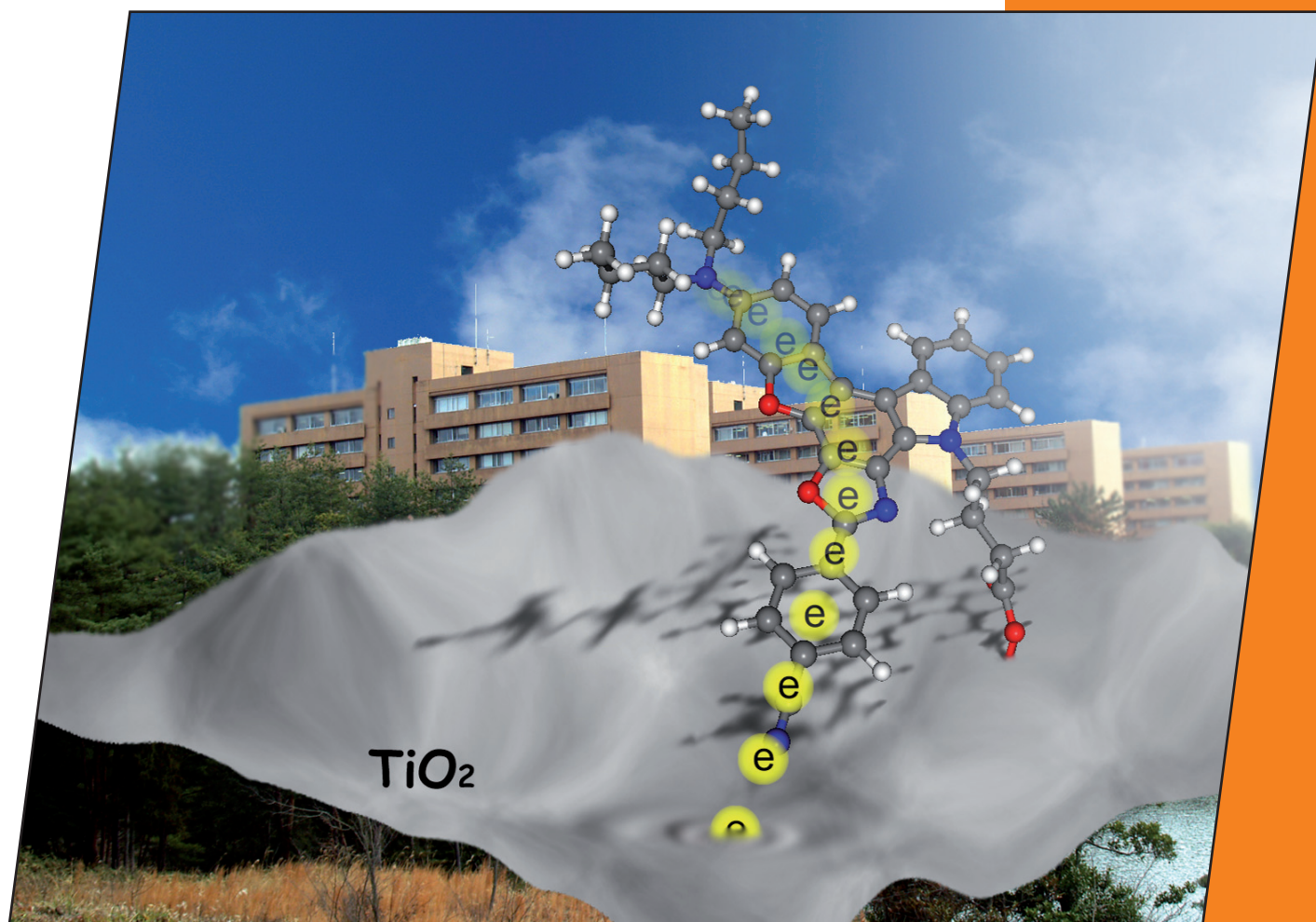


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Organic Chemistry



Cover Picture / Microreview

Yousuke Ooyama and Yutaka Harima

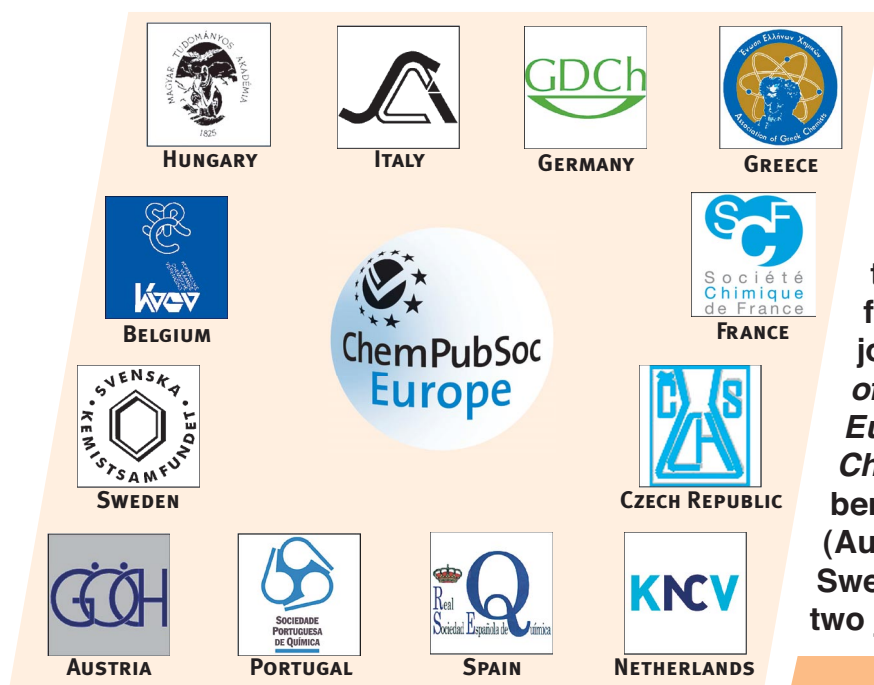
Design and Synthesis of Organic Dyes for Dye-Sensitized Solar Cells

A Journal of



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A union formed by chemical societies in Europe (ChemPubSoc Europe) has taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further members of ChemPubSoc Europe (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows dye-sensitized solar cells (DSSCs) based on organic dyes adsorbed on a nanocrystalline TiO_2 electrode. DSSCs have received considerable attention because of their high incident solar-light-to-electricity conversion efficiency and low cost of production. To create high-performance DSSCs, it is necessary to design and synthesize new and efficient organic dye photosensitizers with effective chromophores and substituents for the performance of DSSCs, which will be made possible by the exquisite molecular design and synthetic strategy of organic chemists. The background shows the architecture of the Department of Engineering, Hiroshima University, which is associated with the arrangement of organic dyes adsorbed on TiO_2 electrodes. The designs and synthesis of organic dyes for DSSCs are presented in the Microreview by Y. Ooyama and Y. Harima on p. 2903ff.

