New and Future Developments in Catalysis: Solar Photocatalysis

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New and Future Developments in Catalysis is a package of seven books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals. Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach. There will be extensive cross-referencing within all volumes. The use of solar energy during various catalytic chemical processes for the production of an array of chemical products is the theme of this volume. Photocatalysis is a topic of increasing importance due to its essential role in many of today's environmental and energy source problems. The use of solar energy for catalytic reactions results in a carbon dioxide–neutral process. All photocatalytic processes and the future developments in this area are discussed, including an economic analysis of the various processes.

- Offers in-depth coverage of all catalytic topics of current interest and outlines future challenges and research areas
- A clear and visual description of all parameters and conditions, enabling the reader to draw conclusions for a particular case
- Outlines the catalytic processes applicable to energy generation and design of green processes

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Editorial Review

Review

"Photo-assisted catalysis uses ultraviolet and/or visible light to excite state species in the active phase of the reaction, and chemists and materials scientists here focus on such synthesis using sunlight. Among their topics are photocatalysis for solar energy conversion, self-clearing materials based on solar photocatalysis, the solar photocatalytic disinfection of bacteria, the role of advanced analytical techniques in designing and characterizing improved catalysts for water oxidation…" **--Reference & Research Book News, December 2013**

About the Author
Steve Suib is one of the leading figures in solid-state catalysis and renewable systems in the US. His 450 publications, 40 patents, and authorship on multiple books on the topic of catalysis is proof of this, as is his distinguished Professor status. He is also editor for Microporous and Mesoporous Materials, which puts him in a perfect position to keep abreast with current developments in the area.

He has been a prominent and prolific catalysis researcher for many years encompassing all aspects of the fields from synthesis, characterization, catalysis, to applications. He easily works in both basic fundamental academic research as well as applied industrial research.

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