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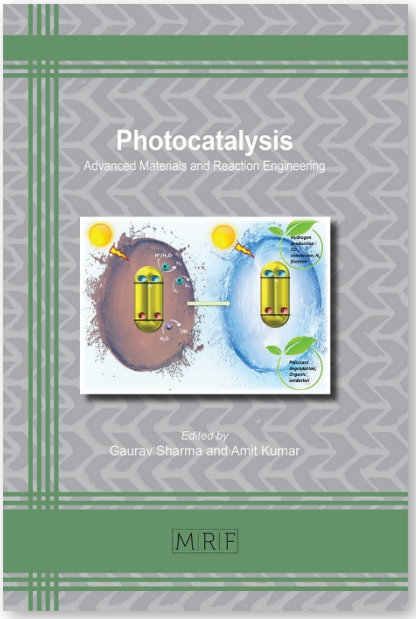
Materials Research
Solid State Physics and Engineering

Photocatalysis

Advanced Materials and Reaction Engineering

Eds. Gaurav Sharma and Amit Kumar



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This book on Photocatalysis discusses new materials and reaction engineering techniques, such as heterojunction formations, composites, ion exchangers, photocatalytic membranes, etc.

Keyword: Photocatalysis, Pollutant Degradation and Mineralization, Pharmaceutical Effluents, Dyes, Pesticides, Endocrine Disruptors, Water Detoxification, Photocatalytic Hydrogen Production, CO2 Conversion into Fuels, N2 Fixation, Degradation of Organic Molecules, Heavy Metal Removal from Water, Photocatalytic Membranes, Carbon Nitride for Photocatalytic Applications, Carbon Nanotubes, Nanohybrids, Composite Ion Exchangers, Perovskites-based Nano Heterojunctions

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Summary:

Photocatalysis is important in fighting environmental pollution, such as pharmaceutical effluents, dyes, pesticides and endocrine disruptors. It is also used for the production of clean energy, e.g. by way of hydrogen production from watersplitting, or CO2 conversion into fuels. Further, photocatalytic N2 fixation is promising for achieving sustainable ammonia synthesis. The book discusses new materials and reaction engineering techniques, such as heterojunction formations, composites, ion exchangers, photocatalytic membranes, etc.

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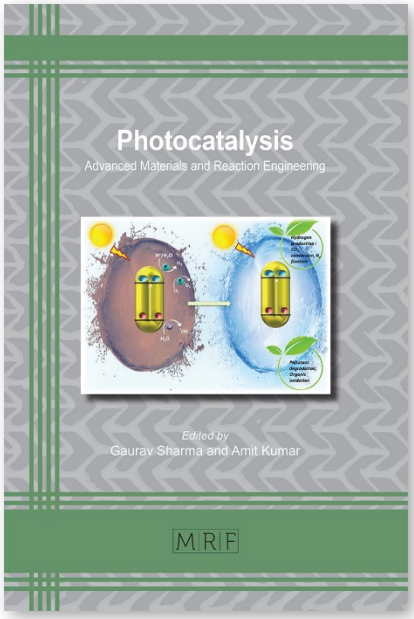

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Monograph / color print, paperback

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