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Nanophotocatalysis and Environmental Applications

Energy Conversion and Chemical Transformations

- Broadens the reader insights into the increasing role of photocatalysis in energy transformation and harvesting
- Summarizes the energy applications of polymeric and metal free semiconductor based hetero-materials
- Explains how smart designing leads to utilization of solar energy into hydrogen production and greenhouse gas reduction
- Equips the readers with research novelties in photocatalytic technology for catalytic organic reactions

This book presents photocatalysis as a state-of-art technology in energy production and conversion. The ever increasing demand for energy with growing economies has led to a dearth of energy sources. The exhaustive dependability on non-renewable resources of energy has not just depleted them but also lead to the birth of secondary problems such as pollution and climate change. The photoactive processes have opened a new window for the production of green energy and helped in environmental sustainability. The harnessing of renewable sources especially sun and water for fuel production and noxious gases reduction solve both the issues of pollution mitigation and energy crisis.

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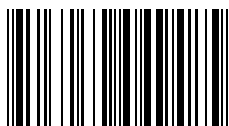
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