

## Homogeneous and Heterogeneous Photocatalysis



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### ***Reviews***

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## HOMOGENEOUS AND HETEROGENEOUS PHOTOCATALYSIS



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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Research Workshop, Maratea, Potenza, Italy, September 1-7, 1985 | Ever since the oil crisis of 1973, researchers in various fields of chemistry have proposed various schemes to conserve energy, as well to convert the sun's abundant and limitless supply of energy to produce chemical fuels (e. g. , hydrogen from water, . . ). The enthusiasm had no previous parallel in the mid-1970's. Unfortunately, despite the several good proposals, the results have proven - in retrospect - somewhat disappointing from an economic viable point of view. The reasons for the meagre results are manifold not the least of which are the experimental difficulties encountered in storage systems. Moreover, the lack of a concerted, well orchestrated interdisciplinary approach has been significant. By contrast, the chemical advances made in the understanding of the processes involved in such schemes have been phenomenal. A recent book on this issue ( M. Gratzel, Energy Resources through Photochemistry and Catalysis, 1983) is witness to the various efforts and approaches taken by researchers. In the recent years, many more groups have joined in these efforts, and the number of papers in the literature is staggering ! One of the motives for organizing this NATO Advanced Research Workshop stemmed from our view that it was time to take stock of the accomplishments and rather than propose new schemes, it was time to consider seriously avenues that are most promising. | Photoinduced charge separation: Requirements needed for ideal relays and photosensitizers.- Photoinduced charge separation: Towards the design of supermolecular systems based on transition metal complexes.- Fundamental studies into primary events in photocatalysis employing CdS and TiO semiconductors: Photoluminescence, laser flash photolysis and pulse radiolysis.- Dynamics of interfacial electron transfer reactions in colloidal semiconductor systems and water cleavage...



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