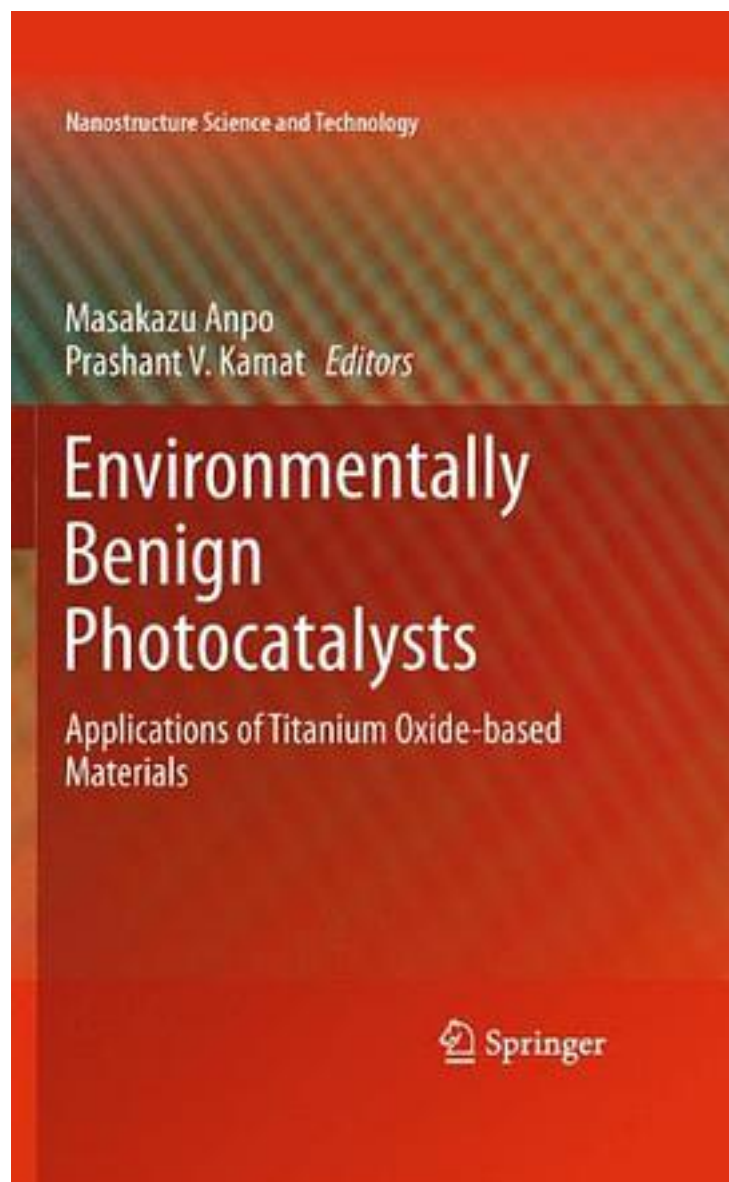


Environmentally Benign Photocatalysts



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Titanium oxide-based catalysts are especially promising as one of the most stable, non toxic, easily available photofunctional materials known today. Previously, the successful development of second-generation titanium oxide photocatalysts using an advanced metal ion-implantation technique led to reactions that could be induced not only with UV but also visible light. Since then, not only has efficiency been improved but new materials and synthesis methods have also been developed. This book will cover the various approaches in the design of efficient titanium oxide-based photocatalysts by such methods as sol-gel, precipitation, dip-coating, metal implantation and sputtering deposition. It will cover the most recent advances in TiO₂ research and their potential applications as well as detailed and fundamental characterization studies on the active sites and mechanisms behind the reactions at the molecular level. The book should serve not only as a text for research into photochemistry and photocatalysis but also to inspire more applications into environmentally-harmonious technologies.

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