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Altri autori (Persone)	NowotnyMaria K NowotnyJanusz <1936->
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Nota di contenuto	Solid State Chemistry and Photocatalysis of Titanium Dioxide; Foreword; Table of Contents; Molecular Mechanism of Water Oxidation Reaction at Photo-Irradiated TiO ₂ and Related Metal Oxide Surfaces ; Development of Visible-Light-Driven TiO ₂ and SrTiO ₃ Photocatalysts Doped with Metal Cations for H ₂ or O ₂ Evolution ; Investigations of Photo-Excited TiO ₂ Based on Time Resolved Microwave Conductivity and Oxygen Isotopic Exchange; Surface Modified Titania Visible Light Photocatalyst Powders; Titanium Dioxide Photocatalyst - Unresolved Problems Tailoring the Photocatalytical Activity of Anatase TiO ₂ Thin Film Electrodes by Three-Dimensional Mesoporosity Surface Science Approach to Photochemistry of TiO ₂ ; Composite Titanium Dioxide Photocatalysts and the "Adsorb & Shuttle" Approach: A Review ; X-Ray Photoelectron Spectroscopy of Anatase-TiO ₂ Coated Carbon Nanotubes ; Efficient Photoelectrochemical Splitting of Water to H ₂ and O ₂ at Nanocrystalline Carbon Modified (CM)-n-TiO ₂ Thin Films; Structure-Reactivity Relationships of Anatase and Rutile TiO ₂ Nanocrystals Measured by In Situ Vibrational Spectroscopy

Sol-Gel Titania and Titania-Silica Mixed Oxides Photocatalysts An Overview of Semi-Conductor Photocatalysis: Modification of TiO₂ Nanomaterials; Controlled Synthesis of Titanium Dioxide Nanostructures; Photocatalytical Properties of TiO₂ Nanotubes; Titanium Dioxide Photocatalysts: Performance Related Properties; Keywords Index; Authors Index

Sommario/riassunto

The goal of this special volume was to provide a unique opportunity to exchange information, to present the latest results and to review relevant issues affecting contemporary diffusion research. The large number (over 232) of peer-reviewed papers emphasizes the considerable academic and industrial interest in this field. This interesting book offers much food-for-thought concerning the topic.
