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Titolo	Solid state chemistry and photocatalysis of titanium dioxide : special topic volume with invited peer reviewed papers only // edited by Maria K. Nowotny and Janusz Nowotny
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Collana	Diffusion and defect data. Pt. B. Solid state phenomena, , 1012-0394 ; ; volume 162
Altri autori (Persone)	NowotnyMaria K NowotnyJanusz <1936->
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Soggetti	Water - Purification - Photocatalysis Titanium dioxide Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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 <sub>2</sub> and Related Metal Oxide Surfaces ; Development of Visible-Light-Driven TiO <sub>2</sub> and SrTiO <sub>3</sub> Photocatalysts Doped with Metal Cations for H <sub>2</sub> or O <sub>2</sub> Evolution ; Investigations of Photo-Excited TiO <sub>2</sub> 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 <sub>2</sub> Thin Film Electrodes by Three-Dimensional Mesoporosity Surface Science Approach to Photochemistry of TiO <sub>2</sub> ; Composite Titanium Dioxide Photocatalysts and the "Adsorb & Shuttle" Approach: A Review ; X-Ray Photoelectron Spectroscopy of Anatase-TiO <sub>2</sub> Coated Carbon Nanotubes ; Efficient Photoelectrochemical Splitting of Water to H <sub>2</sub> and O <sub>2</sub> at Nanocrystalline Carbon Modified (CM)-n-TiO <sub>2</sub> Thin Films; Structure-Reactivity Relationships of Anatase and Rutile TiO <sub>2</sub> Nanocrystals Measured by In Situ Vibrational Spectroscopy

Sol-Gel Titania and Titania-Silica Mixed Oxides Photocatalysts An Overview of Semi-Conductor Photocatalysis: Modification of TiO<sub>2</sub> Nanomaterials; Controlled Synthesis of Titanium Dioxide Nanostructures; Photocatalytical Properties of TiO<sub>2</sub> 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.

2. Record Nr.

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Autore

Russo, Domenico

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