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titanium dioxide (TiO₂), which is one of the most basic materials in our daily life, has emerged as an excellent photocatalyst material for environmental purification. In this review, current progress in the area of TiO₂ photocatalysis, mainly photocatalytic air

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Examples of early applications of nanostructured titanium dioxide in dye-sensitized solar cells, hydrogen production and storage, sensors, rechargeable batteries, electrocatalysis, self-cleaning and antibacterial surfaces and photocatalytic cancer treatment are reviewed.

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Nanostructured Titanium Dioxide Materials: Properties

4 Nanostructured Titanium Dioxide Materials and the commercialization of TiO₂-based products which highlights several points for the future development of TiO₂ photocatalysis [5].

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Nanostructured Titanium Dioxide Materials: Properties

2 Nanostructured Titanium Dioxide Materials nanotechnology, nanoscale materials like TiO₂ have received significant attention. The typical dimension of TiO₂ is less than 100 nm, which makes it attractive for numerous applications in different fields. TiO₂ is known to have such golden properties as abundance and potentially low cost compared to other nanomaterials.

Nanostructured Titanium Dioxide Materials: Properties

Available online at www.sciencedirect.com Preparation and integration of nanostructured titanium dioxide
Hua Chun Zeng Titanium dioxide (TiO₂) is a chemically stable nontoxic transition-metal

Preparation and integration of nanostructured titanium dioxide

PHOTOCATALYTIC PROPERTIES OF NANOSTRUCTURED TITANIUM DIOXIDE O. V. Kupreeva,^a S. K. Lazarouk,^{a*} V. E. Borisenko,^a Liang Kun,^b and Tay Beng Kang^b UDC 621.794.61 We describe a process for obtaining tubular nanostructured (nanotubular) titanium oxide by electrochemical

PHOTOCATALYTIC PROPERTIES OF NANOSTRUCTURED TITANIUM DIOXIDE

A nanostructured photovoltaic device was built with porous n-type TiO₂, a thin coating of CdS absorber, and a transparent p-type CuSCN filling the pores. The cell showed an internal quantum efficiency of $\approx 100\%$ and a cell efficiency of $>1\%$, which was a clear demonstration of the potentiality for a new type of solar cell.

Nanostructured Photovoltaic Cell of the Type Titanium

Titanium Dioxide Nanomaterials: Synthesis, Properties, Modifications, and Applications ... His current research involves the development of nanostructured materials and devices, as well as ultrafast laser technologies. Dr. ... From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution ...

Titanium Dioxide Nanomaterials: Synthesis, Properties

When the titanium dioxide nanostructured thin films formed on the surface of an Al₂O₃ polycrystalline substrate fitted with interdigital platinum electrodes and a microheater, the X-ray pattern of the sample prepared by thermal treatment at 500 Å, Å°C involved a little reflection with (101) indices of the anatase phase, which was probably due to both the high dispersity of TiO₂ particles and the small thickness of a coating.

Sol-gel made titanium dioxide nanostructured thin films as

BRAND NEW, Nanostructured Titanium Dioxide Materials: Properties, Preparation and Applications, Alireza Khataee, G. Ali Mansoori, During the past decade, research and development in the area of synthesis and applications of different nanostructured titanium dioxide have become tremendous.

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