

Photocatalyst Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028

Segmented By Material (Titanium Dioxide, Zinc Oxide, Others), By Application (Self-cleaning, Air Purification, Water Purification, Others), By Region, and Competition

<https://marketpublishers.com/r/P32F1D8129A0EN.html>

Date: July 2023

Pages: 115

Price: US\$ 4,900.00 (Single User License)

ID: P32F1D8129A0EN

Abstracts

Global Photocatalyst market is anticipated to grow significantly through 2028 due to the growing demand for purification applications. In 2021, Bangladesh had an average PM 2.5 concentration of 76.9 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$).

As a result of its lack of toxicity and ability to work by absorbing light from lamps or sunshine, a photocatalyst is a substance that is favorable to the environment. Due to their innocuous nature, materials like zinc oxide and titanium dioxide are currently subject to very few restrictions, which will help to develop the market throughout the projection period.

Growing Awareness Regarding Pollution

The photocatalyst market is being significantly driven by the rise in awareness and relevance of water body and air quality pollution across several end-use industries. One of the major drivers of the expansion and need for the air and water treatment process, which ultimately drives the demand for titanium dioxide, with a growing number of manufacturing outlets throughout the world.

Moreover, the market for photocatalysts is also expanding because of laws and regulations against contaminating waterways.

For instance, the Chinese government fines USD 0.15 million to anybody (individuals or businesses) who constructs sewage outlets in designated drinking water sources.

Therefore, increasing demand for photocatalysts for water & air pollution treatment will lead to the growth of Global Photocatalyst market in the upcoming years.

Rising Demand Due to Self-Cleaning Application

The self-cleaning application of photocatalysts plays an important role in the building & construction sector. This feature is used in structures around the world. Its main impact is a significant reduction in the amount of surface-level dirt adhesion. Another benefit is that light transmission through glazing and transparent membranes is enhanced due to the decrease in surface debris and obscuring grimy sunlight, which can lower lighting energy costs. Large buildings are not the only structures where photocatalytic material is used. The translucent covering may also be utilized for other things while creating roads, such as noise barriers. Tiles that are baked with durable coatings are used for both interior and exterior purposes. A self-cleaning surface may be added to concrete which is used as a building material for facades.

For instance, according to The Ministry of Land, Infrastructure, Transport, and Tourism (Japan), total construction spending reach almost USD 501.09 billion in 2022.

Therefore, the self-cleaning applicability of photocatalysts increases the demand for Global Photocatalyst market during the projected period.

Increasing Demand for Photocatalytic Paints and Coatings

The outside and interior of the building can now be painted or coated with photocatalytic paints and coatings. In addition to removing dirt, photocatalytic coatings also remove impurities and stains from the building's outside surfaces, including smog and airborne pollutants. In addition, photocatalyst coatings from the inside furnishings of the building eliminate smells and destroy VOC, germs, and airborne viruses. Additionally, one of the most popular solutions used to safeguard wooden interior building surfaces is photocatalyst coating.

Moreover, a photocatalytic coating is used in a variety of applications, such as automobile windscreens, window glass, eyeglasses, microscopes, skyscrapers, kitchen appliances, solar cell panel covers screens of many optical instruments, and electronic

devices. All these factors drive Global Photocatalyst market demand during the forecast period.

Recent Developments

In September 2022, Venator obtained an ECO PASSPORT from OEKO-TEX, making it the first maker and supplier of fiber anatase titanium dioxide (TiO₂) to the textile sector.

Integrated titanium dioxide pigment maker Tronox Holdings plc signed a long-term power purchase arrangement with South African independent power producer SOLA Group in March 2022.

In March 2022, LB Group will promote its new TiO₂ pigments for coatings and inks at MECS 2022.

In April 2019, Tronox Holdings purchased the titanium oxide division of CRISTAL, which will help the company's position in Saudi Arabia.

Market Segmentation

Global Photocatalyst Market is segmented based on material, application, and region. Based on material, the market is fabricated into titanium dioxide, zinc oxide, and others. Based on application, the market is categorized into self-cleaning, air purification, water purification, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa, By Company.

Company Profiles

Kronos Worldwide Inc., Syzygy Plasmonics Inc., PCN Materials IKE, Photocat AS, TitanPE Technologies, Inc., Venator Materials PLC, Tronox Holdings plc, The Chemours Company, Green Millennium Inc., LB Group Co Ltd. are some of the key players of Global Photocatalyst Market.

Report Scope:

In this report, Global Photocatalyst market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Photocatalyst Market, By Material:

Titanium Dioxide

Zinc Oxide

Others

Photocatalyst Market, By Application:

Self-cleaning

Air Purification

Water Purification

Others

Photocatalyst Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Singapore

South America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies in global Photocatalyst market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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