

Global Photocatalytic Water Treatment Market Size study & Forecast, by Type (Metal Complexes, Organic Dyes, Heterogeneous and Homogeneous Catalysts, Others), By Application (Organic & Inorganic Pollutant Degradation, Disinfection, Microplastic Treatment, Drinking Water Treatment, Other), By End-Use (Industrial, Commercial), and Regional Analysis, 2023-2030

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Abstracts

Global Photocatalytic Water Treatment Market is valued at approximately USD 9.8 billion in 2022 and is anticipated to grow with a growth rate of more than 6.5% over the forecast period 2023-2030. Photocatalysis is a proven method for degrading pollutants and producing hydrogen by water splitting. Photocatalytic Uses solar energy to remove dangerous microscopic contaminants from water. Photocatalysts are used for antifouling, antifogging, conservation and storage of energy, deodorization, sterilization, self-cleaning, air purification, wastewater treatment, etc. The increasing demand for clean water, growth in technological advancements and the adoption of eco-friendly wastewater solutions are key factors responsible for Photocatalytic Water Treatment growth over the forecast period of 2023-2030.

According to the World Health Organization, in 2023, Globally, there will be 3,95,000 deaths due to unsafe water among children under the age of five, which represents 7.6% of deaths. This included 273 000 deaths from diarrhea and 1,12,000 deaths from acute respiratory infections. The increased demand for clean water is the primary factor of growth in the market. Also, rising stringent government laws towards water management will accelerate market growth. Moreover, increased awareness regarding

water pollution and a rise in investment in research and development in photocatalysis are anticipated to create a positive outlook for the market. For Instance, in Feb 2022, the University of California, Berkley announced the creation of a new graphene oxide-based photocatalyst material. The material is stable and more effective at removing pollutants from water. However, high manufacturing costs stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Photocatalytic Water Treatment Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in terms of revenue owing to factors such as the rise in investment in the R&D of wastewater treatment, technological advancements in water treatment, and growing awareness about the importance of water treatment would create lucrative growth prospects for the Water Treatment Systems Market across Asia-Pacific region. North America is the fastest-growing region due to increased usage of nanoparticle-based water treatment and growth in environmental sustainability in the region.

Major market player included in this report are:

Tronox Holdings PLC

BASF SE

Hangzhou Harmony Chemicals Co., Ltd.

Toshiba Materials Co., Ltd.

Ishihara Sangyo Kaisha Ltd.

KRONOS Worldwide Inc

JSR Corp.

OSAKA Titanium Technologies Co., Ltd.

Daicel Corp.

Nanoptek Corp.

Recent Developments in the Market:

In October 2020, The Chinese Academy of Sciences announced the development of a novel method for immobilizing photocatalysts on surfaces. The method uses a graphene oxide covering to protect the photocatalyst from degeneration, making it more durable and useful.

Global Photocatalytic Water Treatment Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, End-Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Metal Complexes

Organic Dyes

Heterogeneous and Homogeneous Catalysts

Others

By Application:

Organic & Inorganic Pollutant Degradation

Disinfection

Microplastic Treatment

Drinking Water Treatment

Other

By End-use:

Industrial

Commercial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

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Rest of Middle East & Africa

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