

Global Double Layer Planar Heterojunction Organic Solar Cell Market Growth 2022-2028

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Abstracts

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The so-called double-layer planar heterostructure is different from the Schottky type in that two layers of organic materials are inserted between the electrodes, one is a p-type material, and the other is an n-type material. In order to improve the exciton separation efficiency in the active layer materials of organic solar cells, electron acceptor materials and donor materials have been introduced in the device structure design to obtain double film heterojunction organic solar cells. Organic semiconductor materials absorb photons and generate excitons. Excitons generate rapid charge transfer at the donor acceptor interface. After electrons are injected into the acceptor materials, holes and electrons are effectively separated. The separated electrons and holes are transferred to the two electrodes respectively under the action of the built-in electric field, thus forming photocurrent.

The global market for Double Layer Planar Heterojunction Organic Solar Cell is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during 2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Double Layer Planar Heterojunction Organic Solar Cell market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Double Layer Planar Heterojunction Organic Solar Cell market is

expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Double Layer Planar Heterojunction Organic Solar Cell market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Double Layer Planar Heterojunction Organic Solar Cell market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Double Layer Planar Heterojunction Organic Solar Cell players cover Heliatek GmbH, ARMOR, InfinityPV ApS, Novald GmbH and SUNEW, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

Report Coverage

This latest report provides a deep insight into the global Double Layer Planar Heterojunction Organic Solar Cell market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Double Layer Planar Heterojunction Organic Solar Cell market, with both quantitative and qualitative data, to help readers understand how the Double Layer Planar Heterojunction Organic Solar Cell market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in K Units.

Market Segmentation:

The study segments the Double Layer Planar Heterojunction Organic Solar Cell market and forecasts the market size by Material (Polymers and Small Molecules,), by Application (Wearable Device, Car, Military Supplies and Architecture), and region (APAC, Americas, Europe, and Middle East & Africa).

Segmentation by material

Polymers

Small Molecules

Segmentation by application

Wearable Device

Car

Military Supplies

Architecture

Other

Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies covered

Heliatek GmbH

ARMOR

InfinityPV ApS

Novald GmbH

SUNEW

NanoFlex Power Corporation

MORESCO Corporation

Alfa Aesar

Solaris Chem Inc

Epishine

TOSHIBA CORPORATION

Tokyo Chemical Industry Co., Ltd

ENI S.p.A

Ningbo Polycrown Solar Tech Co, Ltd

SHIFENG TECHNOLOGY CO., LTD

Chapter Introduction

Chapter 1: Scope of Double Layer Planar Heterojunction Organic Solar Cell, Research Methodology, etc.

Chapter 2: Executive Summary, global Double Layer Planar Heterojunction Organic Solar Cell market size (sales and revenue) and CAGR, Double Layer Planar Heterojunction Organic Solar Cell market size by region, by material, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Double Layer Planar Heterojunction Organic Solar Cell sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Double Layer Planar Heterojunction Organic Solar Cell sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by material, and material.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Double Layer Planar Heterojunction Organic Solar Cell market size forecast by region, by country, by material, and application.

Chapter 13: Comprehensive company profiles of the leading players, including Heliatek GmbH, ARMOR, InfinityPV ApS, Novald GmbH, SUNEW, NanoFlex Power Corporation, MORESCO Corporation, Alfa Aesar and Solaris Chem Inc, etc.

Chapter 14: Research Findings and Conclusion

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