

Global 2D Covalent Organic Framework Market Growth (Status and Outlook) 2024-2030

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Abstracts

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Based on the dimensionality of the covalent connectivity, COFs can be classified as either two-dimensional (2D) COFs or three-dimensional (3D) COFs. Two-dimensional COFs are fabricated from planar building blocks, and the framework is restricted to 2D sheets, which can then be stacked to form a layered eclipsed structure through, e.g., π -orbital overlap, generating ordered, one-dimensional channels that are well-suited for charge transport.

Two-dimensional covalent organic frameworks (2D COFs) with covalently bonded repeat units and crystalline, porous framework backbones have attracted immense attention since the first 2D COFs were reported by Yaghi's group in 2005. The extended single-layer structures of 2D COFs are also generally considered to be the 2D polymers. The precise incorporation of molecular building blocks into ordered frameworks enables the synthesis of novel organic materials with designable and predictable properties for specific applications, such as in optoelectronics, energy storage, and conversion.

The global 2D Covalent Organic Framework market size is projected to grow from US\$ 126 million in 2024 to US\$ 504 million in 2030; it is expected to grow at a CAGR of 25.9% from 2024 to 2030.

LPI (LP Information)' newest research report, the "2D Covalent Organic Framework Industry Forecast" looks at past sales and reviews total world 2D Covalent Organic Framework sales in 2022, providing a comprehensive analysis by region and market sector of projected 2D Covalent Organic Framework sales for 2023 through 2029. With

2D Covalent Organic Framework sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D Covalent Organic Framework industry.

This Insight Report provides a comprehensive analysis of the global 2D Covalent Organic Framework landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on 2D Covalent Organic Framework portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 2D Covalent Organic Framework market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 2D Covalent Organic Framework and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 2D Covalent Organic Framework.

United States market for 2D Covalent Organic Framework is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for 2D Covalent Organic Framework is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for 2D Covalent Organic Framework is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key 2D Covalent Organic Framework players cover ACS Material, Lumtec, April Scientific, Shanghai Kaishu, Shanghai Tensus, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of 2D Covalent Organic Framework market by product type, application, key players and key regions and countries.

Segmentation by Type:

1.2 nm

1.5-1.8 nm

Segmentation by Application:

Gas Storage and Separation

Catalysis

Sensing

Energy Storage

Optoelectronics

Others

This report also splits the market 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

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

ACS Material

Lumtec

April Scientific

Shanghai Kaishu

Shanghai Tensus

Nanjing Sanhao

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