

Global 2D Metal Carbides and Nitrides Market Growth 2024-2030

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Abstracts

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MXene is a class of two-dimensional (2D) materials that were first discovered in 2011. MXene materials are derived from layered transition metal carbides, nitrides, or carbonitrides, known as MAX phases. The term "MAX" refers to the combination of M (transition metal), A (group 13 or 14 element), and X (carbon and/or nitrogen). 2D layered materials derived from MAX or non-MAX phases were not predicted to exist before this discovery. Unlike most 2D ceramics, MXenes have inherently good conductivity and excellent volumetric capacitance because they are molecular sheets made from the carbides and nitrides of transition metals like titanium. MXenes have already found applications ranging from energy storage to medicine and optoelectronics.

The global 2D Metal Carbides and Nitrides market size is projected to grow from US\$ 36.3 million in 2024 to US\$ 145 million in 2030; it is expected to grow at a CAGR of 26.0% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "2D Metal Carbides and Nitrides Industry Forecast" looks at past sales and reviews total world 2D Metal Carbides and Nitrides sales in 2023, providing a comprehensive analysis by region and market sector of projected 2D Metal Carbides and Nitrides sales for 2024 through 2030. With 2D Metal Carbides and Nitrides sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D Metal Carbides and Nitrides industry.

This Insight Report provides a comprehensive analysis of the global 2D Metal Carbides

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 2D Metal Carbides and Nitrides 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 Metal Carbides and Nitrides.

United States market for 2D Metal Carbides and Nitrides 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 Metal Carbides and Nitrides 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 Metal Carbides and Nitrides 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 Metal Carbides and Nitrides players cover American Elements, Sigma-Aldrich (Merck), Japan Material Technologies Corporation (JMTC), Alfa Chemistry, Beike 2D Materials, 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 Metal Carbides and Nitrides market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ti-based

V-based

Nb-based

Mo-based

Others

Segmentation by Application:

Energy Storage

Optoelectronics

Environmental

Biomedical

Photocatalysis

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

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

American Elements

Sigma-Aldrich (Merck)

Japan Material Technologies Corporation (JMTC)

Alfa Chemistry

Beike 2D Materials

ACS Material

Nanjing XFNANO Materials

Beijing Zhongkeleiming Technology

6Carbon Technology (ShenZhen)

Nanoshel

Foshan Xixi Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 2D Metal Carbides and Nitrides market?

What factors are driving 2D Metal Carbides and Nitrides market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 2D Metal Carbides and Nitrides market opportunities vary by end market size?

How does 2D Metal Carbides and Nitrides break out by Type, by Application?

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