

Global MXene and MBene 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 MXene and MBene market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

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

This Insight Report provides a comprehensive analysis of the global MXene and MBene 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 MXene and MBene portfolios and capabilities, market entry strategies, market positions, and

geographic footprints, to better understand these firms' unique position in an accelerating global MXene and MBene market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MXene and MBene 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 MXene and MBene.

Global key players of MXene Material include American Elements, Beike 2D Materials, Sigma-Aldrich (Merck), etc. The top three players hold a share over 27%. Asia-Pacific is the largest market, and has a share about 40%, followed by North America and Europe with share 31% and 24%, separately. In terms of product type, Ti-based is the largest segment, occupied for a share of 50%. In terms of application, Energy Storage has a share about 41 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of MXene and MBene market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

MXene

MBene

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 Xinxi Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global MXene and MBene market?

What factors are driving MXene and MBene market growth, globally and by region?

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

How do MXene and MBene market opportunities vary by end market size?

How does MXene and MBene break out by Type, by Application?

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