

Global 2D Materials Market Outlook 2025-2034: Growth Drivers, Share, And Trends

The Business Research Company's 2D Materials Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- What is the [2D Materials Market Size](#) and its Growth Potential?

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The [2D materials market](#) size has shown a steady trajectory of growth over the recent years. Robust growth is expected in the future too as this market is projected to escalate from a

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The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034.”

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substantial \$2.20 billion in 2024, up to \$2.31 billion in 2025, at a compound annual growth rate of 4.9%. The factors spawning this impressive growth during the historic period include the mushrooming demand for high-performance electronic devices, augmented investments in research and development, escalating expansion of graphene-based materials into commercial applications, growing interest in energy storage and battery technologies, and superior material properties as compared to their traditional counterparts.

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What is the Projected Market Size and Major Trends in the Forecast Period?

The 2D materials market is anticipated to continue its growth spurt and reach \$2.77 billion in 2029, reflecting a compound annual growth rate of 4.7%. This positive propulsion anticipated in the forecast period can be traced to the surging demand for advanced electronic and optoelectronic devices, accelerating investments in research and development, expansion in the semiconductor industry, encouraging government initiatives and funding for 2D material

research, and expanding applications of graphene and transition metal dichalcogenides.

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What Drives the Growth of 2D Materials Market?

One of the strong drivers for the market's growth is the burgeoning automotive industry. This industry, expanding briskly due to the increasing adoption of autonomous driving technology that significantly enhances safety and convenience, is expected to fuel the growth of the 2D materials market going forward. A perfect blend of advanced driver assistance systems powered by artificial intelligence, accelerating the development of autonomous vehicles, and the use of 2D materials in these vehicles that lead to improved battery efficiency, lightweight structures, and advanced sensors, is a potent formula for enhanced performance and safety.

Who are the Key Players in the 2D Materials Market?

Major companies operating in the 2D materials market include Samsung Advanced Institute of Technology, BASF SE, LG Chem Ltd, Sixth Element Materials Technology, AIXTRON SE, ACS Material LLC, Cambridge Nanosystems Ltd, NanoXplore Inc., CVD Equipment Corporation, Black Swan Graphene Inc., Thomas Swan & Co. Ltd, Directa Plus, Haydale Graphene Industries Plc, Avanzare Innovacion Tecnologica S.L., Graphenea S.A., Grolltex Inc., 2D Carbon Tech Inc., Elcora Advanced Materials Corp, Abalonyx AS, Global Graphene Group.

What does the Expansion of Graphene Powder Production Indicate?

There is an emerging trend showcasing a marked expansion of graphene powder production, a strong testament in support of the growing demand in the market.

How is the 2D Materials Market Segmented?

The market is compartmentalised based on -

1 By Type: Graphene, Hexagonal Boron Nitride, Black Phosphorus, Germanene, Silicene, Other Types

2 By Production Method: Chemical Vapor Deposition, Mechanical Exfoliation, Liquid Exfoliation, Other Production Methods

3 By End User: Electronics, Energy Storage Devices, Composite And Coating, Biomedical Applications, Other End Users

Which Regions are Leading the 2D Materials Market?

Regional insights suggest that North America was the largest region in the 2D materials market in 2024, while Asia-Pacific emerges as the potentially fastest-growing region in the forecast period. The regions covered in this market report are Asia-Pacific, Western Europe, Eastern

Europe, North America, South America, Middle East, Africa.

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