

# Global Two-Dimensional Semiconductor Materials Market Growth 2024-2030

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## Abstracts

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Two-dimensional semiconductor materials are a type of semiconductor materials with a two-dimensional structure, and their thickness is usually only a few atomic layers or a few nanometers thick. These materials exhibit a single-layer structure similar to graphene on a flat surface, but their physical and chemical properties may vary depending on their chemical composition and lattice structure. Two-dimensional semiconductor materials usually have excellent electron transport properties and optical properties, so they have broad application prospects in the fields of electronics and optoelectronics. Compared with traditional three-dimensional semiconductor materials, two-dimensional semiconductor materials are thinner and have a higher surface area to volume ratio, which gives them unique advantages in flexible electronic devices, photoelectric conversion devices, photodetectors, etc.

The global Two-Dimensional Semiconductor Materials market size is projected to grow from US\$ 170 million in 2024 to US\$ 290 million in 2030; it is expected to grow at a CAGR of 9.3% from 2024 to 2030.

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

This Insight Report provides a comprehensive analysis of the global Two-Dimensional Semiconductor Materials 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 Two-Dimensional Semiconductor Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Two-Dimensional Semiconductor Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Two-Dimensional Semiconductor Materials 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 Two-Dimensional Semiconductor Materials.

The two-dimensional semiconductor material market has shown a booming trend in recent years, with its market size expanding and its application fields increasing. According to market research data, the size of the two-dimensional semiconductor materials market has reached a considerable level and is expected to continue its growth trend in the next few years. This growth is mainly due to the wide application of two-dimensional semiconductor materials in electronic devices, optoelectronic devices, energy storage and other fields. In general, the two-dimensional semiconductor materials market has broad development prospects and huge market potential.

This report presents a comprehensive overview, market shares, and growth opportunities of Two-Dimensional Semiconductor Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single Layer

Multi-Layer

Segmentation by Application:

IT

Optoelectronics

Energy Field

Sensor Technology

Other

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.

ACS Material

2D Semiconductors

XFNANO Materials Tech

Graphenea

NanoAmor

HQ Graphene

Nanoshel

American Elements

NanoXplore

Thomas Swan

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Two-Dimensional Semiconductor Materials market?

What factors are driving Two-Dimensional Semiconductor Materials market growth, globally and by region?

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

How do Two-Dimensional Semiconductor Materials market opportunities vary by end market size?

How does Two-Dimensional Semiconductor Materials break out by Type, by Application?

## Contents

### **1 SCOPE OF THE REPORT**

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### **2 EXECUTIVE SUMMARY**

#### 2.1 World Market Overview

- 2.1.1 Global Two-Dimensional Semiconductor Materials Annual Sales 2019-2030
- 2.1.2 World Current & Future Analysis for Two-Dimensional Semiconductor Materials by Geographic Region, 2019, 2023 & 2030
- 2.1.3 World Current & Future Analysis for Two-Dimensional Semiconductor Materials by Country/Region, 2019, 2023 & 2030

#### 2.2 Two-Dimensional Semiconductor Materials Segment by Type

- 2.2.1 Single Layer
- 2.2.2 Multi-Layer

#### 2.3 Two-Dimensional Semiconductor Materials Sales by Type

- 2.3.1 Global Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)
- 2.3.2 Global Two-Dimensional Semiconductor Materials Revenue and Market Share by Type (2019-2024)
- 2.3.3 Global Two-Dimensional Semiconductor Materials Sale Price by Type (2019-2024)

#### 2.4 Two-Dimensional Semiconductor Materials Segment by Application

- 2.4.1 IT
- 2.4.2 Optoelectronics
- 2.4.3 Energy Field
- 2.4.4 Sensor Technology
- 2.4.5 Other

#### 2.5 Two-Dimensional Semiconductor Materials Sales by Application

- 2.5.1 Global Two-Dimensional Semiconductor Materials Sale Market Share by

Application (2019-2024)

2.5.2 Global Two-Dimensional Semiconductor Materials Revenue and Market Share by Application (2019-2024)

2.5.3 Global Two-Dimensional Semiconductor Materials Sale Price by Application (2019-2024)

### **3 GLOBAL BY COMPANY**

3.1 Global Two-Dimensional Semiconductor Materials Breakdown Data by Company

3.1.1 Global Two-Dimensional Semiconductor Materials Annual Sales by Company (2019-2024)

3.1.2 Global Two-Dimensional Semiconductor Materials Sales Market Share by Company (2019-2024)

3.2 Global Two-Dimensional Semiconductor Materials Annual Revenue by Company (2019-2024)

3.2.1 Global Two-Dimensional Semiconductor Materials Revenue by Company (2019-2024)

3.2.2 Global Two-Dimensional Semiconductor Materials Revenue Market Share by Company (2019-2024)

3.3 Global Two-Dimensional Semiconductor Materials Sale Price by Company

3.4 Key Manufacturers Two-Dimensional Semiconductor Materials Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Two-Dimensional Semiconductor Materials Product Location Distribution

3.4.2 Players Two-Dimensional Semiconductor Materials Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR TWO-DIMENSIONAL SEMICONDUCTOR MATERIALS BY GEOGRAPHIC REGION**

4.1 World Historic Two-Dimensional Semiconductor Materials Market Size by Geographic Region (2019-2024)

4.1.1 Global Two-Dimensional Semiconductor Materials Annual Sales by Geographic Region (2019-2024)

4.1.2 Global Two-Dimensional Semiconductor Materials Annual Revenue by

Geographic Region (2019-2024)

4.2 World Historic Two-Dimensional Semiconductor Materials Market Size by Country/Region (2019-2024)

4.2.1 Global Two-Dimensional Semiconductor Materials Annual Sales by Country/Region (2019-2024)

4.2.2 Global Two-Dimensional Semiconductor Materials Annual Revenue by Country/Region (2019-2024)

4.3 Americas Two-Dimensional Semiconductor Materials Sales Growth

4.4 APAC Two-Dimensional Semiconductor Materials Sales Growth

4.5 Europe Two-Dimensional Semiconductor Materials Sales Growth

4.6 Middle East & Africa Two-Dimensional Semiconductor Materials Sales Growth

## **5 AMERICAS**

5.1 Americas Two-Dimensional Semiconductor Materials Sales by Country

5.1.1 Americas Two-Dimensional Semiconductor Materials Sales by Country (2019-2024)

5.1.2 Americas Two-Dimensional Semiconductor Materials Revenue by Country (2019-2024)

5.2 Americas Two-Dimensional Semiconductor Materials Sales by Type (2019-2024)

5.3 Americas Two-Dimensional Semiconductor Materials Sales by Application (2019-2024)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Two-Dimensional Semiconductor Materials Sales by Region

6.1.1 APAC Two-Dimensional Semiconductor Materials Sales by Region (2019-2024)

6.1.2 APAC Two-Dimensional Semiconductor Materials Revenue by Region (2019-2024)

6.2 APAC Two-Dimensional Semiconductor Materials Sales by Type (2019-2024)

6.3 APAC Two-Dimensional Semiconductor Materials Sales by Application (2019-2024)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia



- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Two-Dimensional Semiconductor Materials by Country
  - 7.1.1 Europe Two-Dimensional Semiconductor Materials Sales by Country (2019-2024)
  - 7.1.2 Europe Two-Dimensional Semiconductor Materials Revenue by Country (2019-2024)
- 7.2 Europe Two-Dimensional Semiconductor Materials Sales by Type (2019-2024)
- 7.3 Europe Two-Dimensional Semiconductor Materials Sales by Application (2019-2024)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Two-Dimensional Semiconductor Materials by Country
  - 8.1.1 Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Country (2019-2024)
  - 8.1.2 Middle East & Africa Two-Dimensional Semiconductor Materials Revenue by Country (2019-2024)
- 8.2 Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Type (2019-2024)
- 8.3 Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Application (2019-2024)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Two-Dimensional Semiconductor Materials
- 10.3 Manufacturing Process Analysis of Two-Dimensional Semiconductor Materials
- 10.4 Industry Chain Structure of Two-Dimensional Semiconductor Materials

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Two-Dimensional Semiconductor Materials Distributors
- 11.3 Two-Dimensional Semiconductor Materials Customer

## **12 WORLD FORECAST REVIEW FOR TWO-DIMENSIONAL SEMICONDUCTOR MATERIALS BY GEOGRAPHIC REGION**

- 12.1 Global Two-Dimensional Semiconductor Materials Market Size Forecast by Region
  - 12.1.1 Global Two-Dimensional Semiconductor Materials Forecast by Region (2025-2030)
  - 12.1.2 Global Two-Dimensional Semiconductor Materials Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country (2025-2030)
- 12.3 APAC Forecast by Region (2025-2030)
- 12.4 Europe Forecast by Country (2025-2030)
- 12.5 Middle East & Africa Forecast by Country (2025-2030)
- 12.6 Global Two-Dimensional Semiconductor Materials Forecast by Type (2025-2030)
- 12.7 Global Two-Dimensional Semiconductor Materials Forecast by Application (2025-2030)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 ACS Material

- 13.1.1 ACS Material Company Information
- 13.1.2 ACS Material Two-Dimensional Semiconductor Materials Product Portfolios and Specifications
- 13.1.3 ACS Material Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.1.4 ACS Material Main Business Overview
- 13.1.5 ACS Material Latest Developments
- 13.2 2D Semiconductors
  - 13.2.1 2D Semiconductors Company Information
  - 13.2.2 2D Semiconductors Two-Dimensional Semiconductor Materials Product Portfolios and Specifications
  - 13.2.3 2D Semiconductors Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.2.4 2D Semiconductors Main Business Overview
  - 13.2.5 2D Semiconductors Latest Developments
- 13.3 XFNANO Materials Tech
  - 13.3.1 XFNANO Materials Tech Company Information
  - 13.3.2 XFNANO Materials Tech Two-Dimensional Semiconductor Materials Product Portfolios and Specifications
  - 13.3.3 XFNANO Materials Tech Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.3.4 XFNANO Materials Tech Main Business Overview
  - 13.3.5 XFNANO Materials Tech Latest Developments
- 13.4 Graphenea
  - 13.4.1 Graphenea Company Information
  - 13.4.2 Graphenea Two-Dimensional Semiconductor Materials Product Portfolios and Specifications
  - 13.4.3 Graphenea Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.4.4 Graphenea Main Business Overview
  - 13.4.5 Graphenea Latest Developments
- 13.5 NanoAmor
  - 13.5.1 NanoAmor Company Information
  - 13.5.2 NanoAmor Two-Dimensional Semiconductor Materials Product Portfolios and Specifications
  - 13.5.3 NanoAmor Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.5.4 NanoAmor Main Business Overview
  - 13.5.5 NanoAmor Latest Developments

## 13.6 HQ Graphene

### 13.6.1 HQ Graphene Company Information

### 13.6.2 HQ Graphene Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

### 13.6.3 HQ Graphene Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)

### 13.6.4 HQ Graphene Main Business Overview

### 13.6.5 HQ Graphene Latest Developments

## 13.7 Nanoshel

### 13.7.1 Nanoshel Company Information

### 13.7.2 Nanoshel Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

### 13.7.3 Nanoshel Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)

### 13.7.4 Nanoshel Main Business Overview

### 13.7.5 Nanoshel Latest Developments

## 13.8 American Elements

### 13.8.1 American Elements Company Information

### 13.8.2 American Elements Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

### 13.8.3 American Elements Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)

### 13.8.4 American Elements Main Business Overview

### 13.8.5 American Elements Latest Developments

## 13.9 NanoXplore

### 13.9.1 NanoXplore Company Information

### 13.9.2 NanoXplore Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

### 13.9.3 NanoXplore Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)

### 13.9.4 NanoXplore Main Business Overview

### 13.9.5 NanoXplore Latest Developments

## 13.10 Thomas Swan

### 13.10.1 Thomas Swan Company Information

### 13.10.2 Thomas Swan Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

### 13.10.3 Thomas Swan Two-Dimensional Semiconductor Materials Sales, Revenue, Price and Gross Margin (2019-2024)

### 13.10.4 Thomas Swan Main Business Overview

13.10.5 Thomas Swan Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Two-Dimensional Semiconductor Materials Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Table 2. Two-Dimensional Semiconductor Materials Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)
- Table 3. Major Players of Single Layer
- Table 4. Major Players of Multi-Layer
- Table 5. Global Two-Dimensional Semiconductor Materials Sales by Type (2019-2024) & (kg)
- Table 6. Global Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)
- Table 7. Global Two-Dimensional Semiconductor Materials Revenue by Type (2019-2024) & (\$ million)
- Table 8. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Type (2019-2024)
- Table 9. Global Two-Dimensional Semiconductor Materials Sale Price by Type (2019-2024) & (US\$/g)
- Table 10. Global Two-Dimensional Semiconductor Materials Sale by Application (2019-2024) & (kg)
- Table 11. Global Two-Dimensional Semiconductor Materials Sale Market Share by Application (2019-2024)
- Table 12. Global Two-Dimensional Semiconductor Materials Revenue by Application (2019-2024) & (\$ million)
- Table 13. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Application (2019-2024)
- Table 14. Global Two-Dimensional Semiconductor Materials Sale Price by Application (2019-2024) & (US\$/g)
- Table 15. Global Two-Dimensional Semiconductor Materials Sales by Company (2019-2024) & (kg)
- Table 16. Global Two-Dimensional Semiconductor Materials Sales Market Share by Company (2019-2024)
- Table 17. Global Two-Dimensional Semiconductor Materials Revenue by Company (2019-2024) & (\$ millions)
- Table 18. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Company (2019-2024)
- Table 19. Global Two-Dimensional Semiconductor Materials Sale Price by Company

(2019-2024) & (US\$/g)

Table 20. Key Manufacturers Two-Dimensional Semiconductor Materials Producing Area Distribution and Sales Area

Table 21. Players Two-Dimensional Semiconductor Materials Products Offered

Table 22. Two-Dimensional Semiconductor Materials Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Two-Dimensional Semiconductor Materials Sales by Geographic Region (2019-2024) & (kg)

Table 26. Global Two-Dimensional Semiconductor Materials Sales Market Share Geographic Region (2019-2024)

Table 27. Global Two-Dimensional Semiconductor Materials Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 28. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Geographic Region (2019-2024)

Table 29. Global Two-Dimensional Semiconductor Materials Sales by Country/Region (2019-2024) & (kg)

Table 30. Global Two-Dimensional Semiconductor Materials Sales Market Share by Country/Region (2019-2024)

Table 31. Global Two-Dimensional Semiconductor Materials Revenue by Country/Region (2019-2024) & (\$ millions)

Table 32. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Country/Region (2019-2024)

Table 33. Americas Two-Dimensional Semiconductor Materials Sales by Country (2019-2024) & (kg)

Table 34. Americas Two-Dimensional Semiconductor Materials Sales Market Share by Country (2019-2024)

Table 35. Americas Two-Dimensional Semiconductor Materials Revenue by Country (2019-2024) & (\$ millions)

Table 36. Americas Two-Dimensional Semiconductor Materials Sales by Type (2019-2024) & (kg)

Table 37. Americas Two-Dimensional Semiconductor Materials Sales by Application (2019-2024) & (kg)

Table 38. APAC Two-Dimensional Semiconductor Materials Sales by Region (2019-2024) & (kg)

Table 39. APAC Two-Dimensional Semiconductor Materials Sales Market Share by Region (2019-2024)

Table 40. APAC Two-Dimensional Semiconductor Materials Revenue by Region

(2019-2024) & (\$ millions)

Table 41. APAC Two-Dimensional Semiconductor Materials Sales by Type (2019-2024) & (kg)

Table 42. APAC Two-Dimensional Semiconductor Materials Sales by Application (2019-2024) & (kg)

Table 43. Europe Two-Dimensional Semiconductor Materials Sales by Country (2019-2024) & (kg)

Table 44. Europe Two-Dimensional Semiconductor Materials Revenue by Country (2019-2024) & (\$ millions)

Table 45. Europe Two-Dimensional Semiconductor Materials Sales by Type (2019-2024) & (kg)

Table 46. Europe Two-Dimensional Semiconductor Materials Sales by Application (2019-2024) & (kg)

Table 47. Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Country (2019-2024) & (kg)

Table 48. Middle East & Africa Two-Dimensional Semiconductor Materials Revenue Market Share by Country (2019-2024)

Table 49. Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Type (2019-2024) & (kg)

Table 50. Middle East & Africa Two-Dimensional Semiconductor Materials Sales by Application (2019-2024) & (kg)

Table 51. Key Market Drivers & Growth Opportunities of Two-Dimensional Semiconductor Materials

Table 52. Key Market Challenges & Risks of Two-Dimensional Semiconductor Materials

Table 53. Key Industry Trends of Two-Dimensional Semiconductor Materials

Table 54. Two-Dimensional Semiconductor Materials Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Two-Dimensional Semiconductor Materials Distributors List

Table 57. Two-Dimensional Semiconductor Materials Customer List

Table 58. Global Two-Dimensional Semiconductor Materials Sales Forecast by Region (2025-2030) & (kg)

Table 59. Global Two-Dimensional Semiconductor Materials Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 60. Americas Two-Dimensional Semiconductor Materials Sales Forecast by Country (2025-2030) & (kg)

Table 61. Americas Two-Dimensional Semiconductor Materials Annual Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 62. APAC Two-Dimensional Semiconductor Materials Sales Forecast by Region (2025-2030) & (kg)



Table 63. APAC Two-Dimensional Semiconductor Materials Annual Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 64. Europe Two-Dimensional Semiconductor Materials Sales Forecast by Country (2025-2030) & (kg)

Table 65. Europe Two-Dimensional Semiconductor Materials Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 66. Middle East & Africa Two-Dimensional Semiconductor Materials Sales Forecast by Country (2025-2030) & (kg)

Table 67. Middle East & Africa Two-Dimensional Semiconductor Materials Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 68. Global Two-Dimensional Semiconductor Materials Sales Forecast by Type (2025-2030) & (kg)

Table 69. Global Two-Dimensional Semiconductor Materials Revenue Forecast by Type (2025-2030) & (\$ millions)

Table 70. Global Two-Dimensional Semiconductor Materials Sales Forecast by Application (2025-2030) & (kg)

Table 71. Global Two-Dimensional Semiconductor Materials Revenue Forecast by Application (2025-2030) & (\$ millions)

Table 72. ACS Material Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 73. ACS Material Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 74. ACS Material Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 75. ACS Material Main Business

Table 76. ACS Material Latest Developments

Table 77. 2D Semiconductors Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 78. 2D Semiconductors Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 79. 2D Semiconductors Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 80. 2D Semiconductors Main Business

Table 81. 2D Semiconductors Latest Developments

Table 82. XFNANO Materials Tech Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 83. XFNANO Materials Tech Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 84. XFNANO Materials Tech Two-Dimensional Semiconductor Materials Sales

(kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 85. XFNANO Materials Tech Main Business

Table 86. XFNANO Materials Tech Latest Developments

Table 87. Graphenea Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 88. Graphenea Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 89. Graphenea Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 90. Graphenea Main Business

Table 91. Graphenea Latest Developments

Table 92. NanoAmor Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 93. NanoAmor Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 94. NanoAmor Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 95. NanoAmor Main Business

Table 96. NanoAmor Latest Developments

Table 97. HQ Graphene Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 98. HQ Graphene Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 99. HQ Graphene Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 100. HQ Graphene Main Business

Table 101. HQ Graphene Latest Developments

Table 102. Nanoshel Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 103. Nanoshel Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 104. Nanoshel Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 105. Nanoshel Main Business

Table 106. Nanoshel Latest Developments

Table 107. American Elements Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 108. American Elements Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 109. American Elements Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 110. American Elements Main Business

Table 111. American Elements Latest Developments

Table 112. NanoXplore Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 113. NanoXplore Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 114. NanoXplore Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 115. NanoXplore Main Business

Table 116. NanoXplore Latest Developments

Table 117. Thomas Swan Basic Information, Two-Dimensional Semiconductor Materials Manufacturing Base, Sales Area and Its Competitors

Table 118. Thomas Swan Two-Dimensional Semiconductor Materials Product Portfolios and Specifications

Table 119. Thomas Swan Two-Dimensional Semiconductor Materials Sales (kg), Revenue (\$ Million), Price (US\$/g) and Gross Margin (2019-2024)

Table 120. Thomas Swan Main Business

Table 121. Thomas Swan Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of Two-Dimensional Semiconductor Materials

Figure 2. Two-Dimensional Semiconductor Materials Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Two-Dimensional Semiconductor Materials Sales Growth Rate 2019-2030 (kg)

Figure 7. Global Two-Dimensional Semiconductor Materials Revenue Growth Rate 2019-2030 (\$ millions)

Figure 8. Two-Dimensional Semiconductor Materials Sales by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Figure 9. Two-Dimensional Semiconductor Materials Sales Market Share by Country/Region (2023)

Figure 10. Two-Dimensional Semiconductor Materials Sales Market Share by Country/Region (2019, 2023 & 2030)

Figure 11. Product Picture of Single Layer

Figure 12. Product Picture of Multi-Layer

Figure 13. Global Two-Dimensional Semiconductor Materials Sales Market Share by Type in 2023

Figure 14. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Type (2019-2024)

Figure 15. Two-Dimensional Semiconductor Materials Consumed in IT

Figure 16. Global Two-Dimensional Semiconductor Materials Market: IT (2019-2024) & (kg)

Figure 17. Two-Dimensional Semiconductor Materials Consumed in Optoelectronics

Figure 18. Global Two-Dimensional Semiconductor Materials Market: Optoelectronics (2019-2024) & (kg)

Figure 19. Two-Dimensional Semiconductor Materials Consumed in Energy Field

Figure 20. Global Two-Dimensional Semiconductor Materials Market: Energy Field (2019-2024) & (kg)

Figure 21. Two-Dimensional Semiconductor Materials Consumed in Sensor Technology

Figure 22. Global Two-Dimensional Semiconductor Materials Market: Sensor Technology (2019-2024) & (kg)

Figure 23. Two-Dimensional Semiconductor Materials Consumed in Other

Figure 24. Global Two-Dimensional Semiconductor Materials Market: Other

(2019-2024) & (kg)

Figure 25. Global Two-Dimensional Semiconductor Materials Sale Market Share by Application (2023)

Figure 26. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Application in 2023

Figure 27. Two-Dimensional Semiconductor Materials Sales by Company in 2023 (kg)

Figure 28. Global Two-Dimensional Semiconductor Materials Sales Market Share by Company in 2023

Figure 29. Two-Dimensional Semiconductor Materials Revenue by Company in 2023 (\$ millions)

Figure 30. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Company in 2023

Figure 31. Global Two-Dimensional Semiconductor Materials Sales Market Share by Geographic Region (2019-2024)

Figure 32. Global Two-Dimensional Semiconductor Materials Revenue Market Share by Geographic Region in 2023

Figure 33. Americas Two-Dimensional Semiconductor Materials Sales 2019-2024 (kg)

Figure 34. Americas Two-Dimensional Semiconductor Materials Revenue 2019-2024 (\$ millions)

Figure 35. APAC Two-Dimensional Semiconductor Materials Sales 2019-2024 (kg)

Figure 36. APAC Two-Dimensional Semiconductor Materials Revenue 2019-2024 (\$ millions)

Figure 37. Europe Two-Dimensional Semiconductor Materials Sales 2019-2024 (kg)

Figure 38. Europe Two-Dimensional Semiconductor Materials Revenue 2019-2024 (\$ millions)

Figure 39. Middle East & Africa Two-Dimensional Semiconductor Materials Sales 2019-2024 (kg)

Figure 40. Middle East & Africa Two-Dimensional Semiconductor Materials Revenue 2019-2024 (\$ millions)

Figure 41. Americas Two-Dimensional Semiconductor Materials Sales Market Share by Country in 2023

Figure 42. Americas Two-Dimensional Semiconductor Materials Revenue Market Share by Country (2019-2024)

Figure 43. Americas Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)

Figure 44. Americas Two-Dimensional Semiconductor Materials Sales Market Share by Application (2019-2024)

Figure 45. United States Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 46. Canada Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 47. Mexico Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 48. Brazil Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 49. APAC Two-Dimensional Semiconductor Materials Sales Market Share by Region in 2023

Figure 50. APAC Two-Dimensional Semiconductor Materials Revenue Market Share by Region (2019-2024)

Figure 51. APAC Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)

Figure 52. APAC Two-Dimensional Semiconductor Materials Sales Market Share by Application (2019-2024)

Figure 53. China Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 54. Japan Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 55. South Korea Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 56. Southeast Asia Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 57. India Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 58. Australia Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 59. China Taiwan Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 60. Europe Two-Dimensional Semiconductor Materials Sales Market Share by Country in 2023

Figure 61. Europe Two-Dimensional Semiconductor Materials Revenue Market Share by Country (2019-2024)

Figure 62. Europe Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)

Figure 63. Europe Two-Dimensional Semiconductor Materials Sales Market Share by Application (2019-2024)

Figure 64. Germany Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 65. France Two-Dimensional Semiconductor Materials Revenue Growth

2019-2024 (\$ millions)

Figure 66. UK Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 67. Italy Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 68. Russia Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 69. Middle East & Africa Two-Dimensional Semiconductor Materials Sales Market Share by Country (2019-2024)

Figure 70. Middle East & Africa Two-Dimensional Semiconductor Materials Sales Market Share by Type (2019-2024)

Figure 71. Middle East & Africa Two-Dimensional Semiconductor Materials Sales Market Share by Application (2019-2024)

Figure 72. Egypt Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 73. South Africa Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 74. Israel Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 75. Turkey Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 76. GCC Countries Two-Dimensional Semiconductor Materials Revenue Growth 2019-2024 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Two-Dimensional Semiconductor Materials in 2023

Figure 78. Manufacturing Process Analysis of Two-Dimensional Semiconductor Materials

Figure 79. Industry Chain Structure of Two-Dimensional Semiconductor Materials

Figure 80. Channels of Distribution

Figure 81. Global Two-Dimensional Semiconductor Materials Sales Market Forecast by Region (2025-2030)

Figure 82. Global Two-Dimensional Semiconductor Materials Revenue Market Share Forecast by Region (2025-2030)

Figure 83. Global Two-Dimensional Semiconductor Materials Sales Market Share Forecast by Type (2025-2030)

Figure 84. Global Two-Dimensional Semiconductor Materials Revenue Market Share Forecast by Type (2025-2030)

Figure 85. Global Two-Dimensional Semiconductor Materials Sales Market Share Forecast by Application (2025-2030)

Figure 86. Global Two-Dimensional Semiconductor Materials Revenue Market Share Forecast by Application (2025-2030)



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