

Global One-Dimensional (1D) Nanostructured Materials Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCE0F327A422EN.html>

Date: January 2026

Pages: 133

Price: US\$ 4,480.00 (Single User License)

ID: GCE0F327A422EN

Abstracts

The global One-Dimensional (1D) Nanostructured Materials market size is expected to reach \$ 2296 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

One-Dimensional (1D) Nanostructured Materials are materials with two dimensions confined to the nanometer scale (1-100 nm) and a much larger third dimension, appearing as wires, rods, fibers, or tubes, giving them high surface areas and unique electronic, optical, and catalytic properties for applications in electronics, energy, and medicine. Examples include nanowires, nanotubes (like carbon nanotubes), nanorods, and nanobelts, which offer enhanced performance due to their large surface-to-volume ratio and efficient charge transport pathways.

In 2025, the global output of one-dimensional nanostructure materials is estimated at 55,000 tons, with an average price of US\$28/kg and a gross profit margin typically ranging from 45% to 70%.

The upstream of one-dimensional nanostructured materials mainly includes high-purity metal and semiconductor precursors, carbon sources, functional polymers, catalysts, specialty gases, and solvents, which determine the size control, crystallinity, and electrical and mechanical properties of nanowires, nanotubes, and nanorods.

Downstream applications are the key to value creation, with electronics and semiconductors being the most critical segment, where 1D nanomaterials are used in transistors, interconnects, sensors, and flexible electronics to achieve higher carrier mobility, smaller device dimensions, and lower power consumption. The energy sector is another major application area, as 1D nanostructures in lithium-ion and sodium-ion batteries, supercapacitors, and fuel cells provide shorter ion diffusion paths and larger surface area, improving capacity, rate performance, and cycle life. In optoelectronics and displays, their anisotropic structures and quantum confinement effects are exploited

in photodetectors, light-emitting devices, and emerging display architectures. In biomedicine, 1D nanomaterials are applied in biosensing, drug delivery, and tissue engineering scaffolds, emphasizing high sensitivity, biocompatibility, and functional tunability. Advanced composites and structural reinforcement also represent important downstream markets, where nanofibers and nanotubes enhance strength, conductivity, and durability in aerospace, automotive, and construction materials. In terms of trends, 1D nanostructured materials are moving toward scalable, controllable, and cost-effective production, with increasing emphasis on green synthesis and material safety, and deeper integration with flexible electronics, wearable devices, and next-generation energy systems. Key drivers include continued miniaturization in microelectronics, rapid growth in energy storage and renewable energy demand, advances in high-sensitivity sensing and precision medicine, and expanding industrial use of high-performance lightweight materials. Constraints include complex fabrication processes, challenges in batch consistency and reliability control, relatively high costs, and limited standardization and long-term safety evaluation in some applications.

This report studies the global One-Dimensional (1D) Nanostructured Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for One-Dimensional (1D) Nanostructured Materials and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of One-Dimensional (1D) Nanostructured Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global One-Dimensional (1D) Nanostructured Materials total production and demand, 2021-2032, (Tons)

Global One-Dimensional (1D) Nanostructured Materials total production value, 2021-2032, (USD Million)

Global One-Dimensional (1D) Nanostructured Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global One-Dimensional (1D) Nanostructured Materials consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: One-Dimensional (1D) Nanostructured Materials domestic production, consumption, key domestic manufacturers and share

Global One-Dimensional (1D) Nanostructured Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global One-Dimensional (1D) Nanostructured Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global One-Dimensional (1D) Nanostructured Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global One-Dimensional (1D) Nanostructured Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OCSiAl, LG Chem, Arkema, Nanocyl, Cabot, Resonac, Timesnano, Pyrograf Products, C3Nano, CTI Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World One-Dimensional (1D) Nanostructured Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global One-Dimensional (1D) Nanostructured Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global One-Dimensional (1D) Nanostructured Materials Market, Segmentation by Type:

Nanowires

Nanorods

Nanotubes

Nanobelts

Nanoneedles

Others

Global One-Dimensional (1D) Nanostructured Materials Market, Segmentation by Composition:

Elements

Oxides

Sulfides/Selenides

Nitrogenides/Carbides

Polymers

Global One-Dimensional (1D) Nanostructured Materials Market, Segmentation by Preparation Method:

Gas Phase Method

Liquid Phase Method

Solid Phase Method

Electrochemical Method

Global One-Dimensional (1D) Nanostructured Materials Market, Segmentation by Application:

Electronic Information

Energy Storage and Conversion

Biomedicine

Environmental Governance

Catalysis

Others

Companies Profiled:

OCSiAl

LG Chem

Arkema

Nanocyl

Cabot

Resonac

Timesnano

Pyrograf Products

C3Nano

CTI Materials

Chemipaz

Qnity Electronics

Revolution Fibres

Key Questions Answered:

1. How big is the global One-Dimensional (1D) Nanostructured Materials market?
2. What is the demand of the global One-Dimensional (1D) Nanostructured Materials market?
3. What is the year over year growth of the global One-Dimensional (1D) Nanostructured Materials market?
4. What is the production and production value of the global One-Dimensional (1D) Nanostructured Materials market?
5. Who are the key producers in the global One-Dimensional (1D) Nanostructured Materials market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 One-Dimensional (1D) Nanostructured Materials Introduction
- 1.2 World One-Dimensional (1D) Nanostructured Materials Supply & Forecast
 - 1.2.1 World One-Dimensional (1D) Nanostructured Materials Production Value (2021 & 2025 & 2032)
 - 1.2.2 World One-Dimensional (1D) Nanostructured Materials Production (2021-2032)
 - 1.2.3 World One-Dimensional (1D) Nanostructured Materials Pricing Trends (2021-2032)
- 1.3 World One-Dimensional (1D) Nanostructured Materials Production by Region (Based on Production Site)
 - 1.3.1 World One-Dimensional (1D) Nanostructured Materials Production Value by Region (2021-2032)
 - 1.3.2 World One-Dimensional (1D) Nanostructured Materials Production by Region (2021-2032)
 - 1.3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Region (2021-2032)
 - 1.3.4 North America One-Dimensional (1D) Nanostructured Materials Production (2021-2032)
 - 1.3.5 Europe One-Dimensional (1D) Nanostructured Materials Production (2021-2032)
 - 1.3.6 China One-Dimensional (1D) Nanostructured Materials Production (2021-2032)
 - 1.3.7 Japan One-Dimensional (1D) Nanostructured Materials Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 One-Dimensional (1D) Nanostructured Materials Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 One-Dimensional (1D) Nanostructured Materials Major Market Trends

2 DEMAND SUMMARY

- 2.1 World One-Dimensional (1D) Nanostructured Materials Demand (2021-2032)
- 2.2 World One-Dimensional (1D) Nanostructured Materials Consumption by Region
 - 2.2.1 World One-Dimensional (1D) Nanostructured Materials Consumption by Region (2021-2026)
 - 2.2.2 World One-Dimensional (1D) Nanostructured Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)

- 2.4 China One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)
- 2.5 Europe One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)
- 2.6 Japan One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)
- 2.7 South Korea One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)
- 2.8 ASEAN One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)
- 2.9 India One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World One-Dimensional (1D) Nanostructured Materials Production Value by Manufacturer (2021-2026)
- 3.2 World One-Dimensional (1D) Nanostructured Materials Production by Manufacturer (2021-2026)
- 3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Manufacturer (2021-2026)
- 3.4 One-Dimensional (1D) Nanostructured Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global One-Dimensional (1D) Nanostructured Materials Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for One-Dimensional (1D) Nanostructured Materials in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for One-Dimensional (1D) Nanostructured Materials in 2025
- 3.6 One-Dimensional (1D) Nanostructured Materials Market: Overall Company Footprint Analysis
 - 3.6.1 One-Dimensional (1D) Nanostructured Materials Market: Region Footprint
 - 3.6.2 One-Dimensional (1D) Nanostructured Materials Market: Company Product Type Footprint
 - 3.6.3 One-Dimensional (1D) Nanostructured Materials Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Value Comparison
 - 4.1.1 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Comparison
 - 4.2.1 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: One-Dimensional (1D) Nanostructured Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: One-Dimensional (1D) Nanostructured Materials Consumption Comparison
 - 4.3.1 United States VS China: One-Dimensional (1D) Nanostructured Materials Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: One-Dimensional (1D) Nanostructured Materials Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based One-Dimensional (1D) Nanostructured Materials Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production (2021-2026)
- 4.5 China Based One-Dimensional (1D) Nanostructured Materials Manufacturers and Market Share
 - 4.5.1 China Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production (2021-2026)
- 4.6 Rest of World Based One-Dimensional (1D) Nanostructured Materials Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World One-Dimensional (1D) Nanostructured Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Nanowires

5.2.2 Nanorods

5.2.3 Nanotubes

5.2.4 Nanobelts

5.2.5 Nanoneedles

5.2.6 Others

5.3 Market Segment by Type

5.3.1 World One-Dimensional (1D) Nanostructured Materials Production by Type (2021-2032)

5.3.2 World One-Dimensional (1D) Nanostructured Materials Production Value by Type (2021-2032)

5.3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COMPOSITION

6.1 World One-Dimensional (1D) Nanostructured Materials Market Size Overview by Composition: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Composition

6.2.1 Elements

6.2.2 Oxides

6.2.3 Sulfides/Selenides

6.2.4 Nitrogenides/Carbides

6.2.5 Polymers

6.3 Market Segment by Composition

6.3.1 World One-Dimensional (1D) Nanostructured Materials Production by Composition (2021-2032)

6.3.2 World One-Dimensional (1D) Nanostructured Materials Production Value by Composition (2021-2032)

6.3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Composition (2021-2032)

7 MARKET ANALYSIS BY PREPARATION METHOD

7.1 World One-Dimensional (1D) Nanostructured Materials Market Size Overview by Preparation Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Preparation Method

7.2.1 Gas Phase Method

7.2.2 Liquid Phase Method

7.2.3 Solid Phase Method

7.2.4 Electrochemical Method

7.3 Market Segment by Preparation Method

7.3.1 World One-Dimensional (1D) Nanostructured Materials Production by Preparation Method (2021-2032)

7.3.2 World One-Dimensional (1D) Nanostructured Materials Production Value by Preparation Method (2021-2032)

7.3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Preparation Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World One-Dimensional (1D) Nanostructured Materials Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electronic Information

8.2.2 Energy Storage and Conversion

8.2.3 Biomedicine

8.2.4 Environmental Governance

8.2.5 Catalysis

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World One-Dimensional (1D) Nanostructured Materials Production by Application (2021-2032)

8.3.2 World One-Dimensional (1D) Nanostructured Materials Production Value by Application (2021-2032)

8.3.3 World One-Dimensional (1D) Nanostructured Materials Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 OCSiAl

9.1.1 OCSiAl Details

9.1.2 OCSiAl Major Business

9.1.3 OCSiAl One-Dimensional (1D) Nanostructured Materials Product and Services

9.1.4 OCSiAl One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 OCSiAl Recent Developments/Updates

9.1.6 OCSiAl Competitive Strengths & Weaknesses

9.2 LG Chem

9.2.1 LG Chem Details

9.2.2 LG Chem Major Business

9.2.3 LG Chem One-Dimensional (1D) Nanostructured Materials Product and Services

9.2.4 LG Chem One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 LG Chem Recent Developments/Updates

9.2.6 LG Chem Competitive Strengths & Weaknesses

9.3 Arkema

9.3.1 Arkema Details

9.3.2 Arkema Major Business

9.3.3 Arkema One-Dimensional (1D) Nanostructured Materials Product and Services

9.3.4 Arkema One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Arkema Recent Developments/Updates

9.3.6 Arkema Competitive Strengths & Weaknesses

9.4 Nanocyl

9.4.1 Nanocyl Details

9.4.2 Nanocyl Major Business

9.4.3 Nanocyl One-Dimensional (1D) Nanostructured Materials Product and Services

9.4.4 Nanocyl One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Nanocyl Recent Developments/Updates

9.4.6 Nanocyl Competitive Strengths & Weaknesses

9.5 Cabot

9.5.1 Cabot Details

9.5.2 Cabot Major Business

9.5.3 Cabot One-Dimensional (1D) Nanostructured Materials Product and Services

9.5.4 Cabot One-Dimensional (1D) Nanostructured Materials Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.5.5 Cabot Recent Developments/Updates

9.5.6 Cabot Competitive Strengths & Weaknesses

9.6 Resonac

9.6.1 Resonac Details

9.6.2 Resonac Major Business

9.6.3 Resonac One-Dimensional (1D) Nanostructured Materials Product and Services

9.6.4 Resonac One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Resonac Recent Developments/Updates

9.6.6 Resonac Competitive Strengths & Weaknesses

9.7 Timesnano

9.7.1 Timesnano Details

9.7.2 Timesnano Major Business

9.7.3 Timesnano One-Dimensional (1D) Nanostructured Materials Product and Services

9.7.4 Timesnano One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Timesnano Recent Developments/Updates

9.7.6 Timesnano Competitive Strengths & Weaknesses

9.8 Pyrograf Products

9.8.1 Pyrograf Products Details

9.8.2 Pyrograf Products Major Business

9.8.3 Pyrograf Products One-Dimensional (1D) Nanostructured Materials Product and Services

9.8.4 Pyrograf Products One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Pyrograf Products Recent Developments/Updates

9.8.6 Pyrograf Products Competitive Strengths & Weaknesses

9.9 C3Nano

9.9.1 C3Nano Details

9.9.2 C3Nano Major Business

9.9.3 C3Nano One-Dimensional (1D) Nanostructured Materials Product and Services

9.9.4 C3Nano One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 C3Nano Recent Developments/Updates

9.9.6 C3Nano Competitive Strengths & Weaknesses

9.10 CTI Materials

9.10.1 CTI Materials Details

9.10.2 CTI Materials Major Business

9.10.3 CTI Materials One-Dimensional (1D) Nanostructured Materials Product and Services

9.10.4 CTI Materials One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 CTI Materials Recent Developments/Updates

9.10.6 CTI Materials Competitive Strengths & Weaknesses

9.11 Chemipaz

9.11.1 Chemipaz Details

9.11.2 Chemipaz Major Business

9.11.3 Chemipaz One-Dimensional (1D) Nanostructured Materials Product and Services

9.11.4 Chemipaz One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Chemipaz Recent Developments/Updates

9.11.6 Chemipaz Competitive Strengths & Weaknesses

9.12 Qnity Electronics

9.12.1 Qnity Electronics Details

9.12.2 Qnity Electronics Major Business

9.12.3 Qnity Electronics One-Dimensional (1D) Nanostructured Materials Product and Services

9.12.4 Qnity Electronics One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Qnity Electronics Recent Developments/Updates

9.12.6 Qnity Electronics Competitive Strengths & Weaknesses

9.13 Revolution Fibres

9.13.1 Revolution Fibres Details

9.13.2 Revolution Fibres Major Business

9.13.3 Revolution Fibres One-Dimensional (1D) Nanostructured Materials Product and Services

9.13.4 Revolution Fibres One-Dimensional (1D) Nanostructured Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Revolution Fibres Recent Developments/Updates

9.13.6 Revolution Fibres Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 One-Dimensional (1D) Nanostructured Materials Industry Chain

10.2 One-Dimensional (1D) Nanostructured Materials Upstream Analysis

- 10.2.1 One-Dimensional (1D) Nanostructured Materials Core Raw Materials
- 10.2.2 Main Manufacturers of One-Dimensional (1D) Nanostructured Materials Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 One-Dimensional (1D) Nanostructured Materials Production Mode
- 10.6 One-Dimensional (1D) Nanostructured Materials Procurement Model
- 10.7 One-Dimensional (1D) Nanostructured Materials Industry Sales Model and Sales Channels
 - 10.7.1 One-Dimensional (1D) Nanostructured Materials Sales Model
 - 10.7.2 One-Dimensional (1D) Nanostructured Materials Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World One-Dimensional (1D) Nanostructured Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World One-Dimensional (1D) Nanostructured Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World One-Dimensional (1D) Nanostructured Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Region (2021-2026)

Table 5. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Region (2027-2032)

Table 6. World One-Dimensional (1D) Nanostructured Materials Production by Region (2021-2026) & (Tons)

Table 7. World One-Dimensional (1D) Nanostructured Materials Production by Region (2027-2032) & (Tons)

Table 8. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Region (2021-2026)

Table 9. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Region (2027-2032)

Table 10. World One-Dimensional (1D) Nanostructured Materials Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World One-Dimensional (1D) Nanostructured Materials Average Price by Region (2027-2032) & (US\$/kg)

Table 12. One-Dimensional (1D) Nanostructured Materials Major Market Trends

Table 13. World One-Dimensional (1D) Nanostructured Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World One-Dimensional (1D) Nanostructured Materials Consumption by Region (2021-2026) & (Tons)

Table 15. World One-Dimensional (1D) Nanostructured Materials Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World One-Dimensional (1D) Nanostructured Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key One-Dimensional (1D) Nanostructured Materials Producers in 2025

Table 18. World One-Dimensional (1D) Nanostructured Materials Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key One-Dimensional (1D) Nanostructured Materials Producers in 2025

Table 20. World One-Dimensional (1D) Nanostructured Materials Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global One-Dimensional (1D) Nanostructured Materials Company Evaluation Quadrant

Table 22. World One-Dimensional (1D) Nanostructured Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and One-Dimensional (1D) Nanostructured Materials Production Site of Key Manufacturer

Table 24. One-Dimensional (1D) Nanostructured Materials Market: Company Product Type Footprint

Table 25. One-Dimensional (1D) Nanostructured Materials Market: Company Product Application Footprint

Table 26. One-Dimensional (1D) Nanostructured Materials Competitive Factors

Table 27. One-Dimensional (1D) Nanostructured Materials New Entrant and Capacity Expansion Plans

Table 28. One-Dimensional (1D) Nanostructured Materials Mergers & Acquisitions Activity

Table 29. United States VS China One-Dimensional (1D) Nanostructured Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China One-Dimensional (1D) Nanostructured Materials Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China One-Dimensional (1D) Nanostructured Materials Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share (2021-2026)

Table 37. China Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share (2021-2026)

Table 42. Rest of World Based One-Dimensional (1D) Nanostructured Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share (2021-2026)

Table 47. World One-Dimensional (1D) Nanostructured Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World One-Dimensional (1D) Nanostructured Materials Production by Type (2021-2026) & (Tons)

Table 49. World One-Dimensional (1D) Nanostructured Materials Production by Type (2027-2032) & (Tons)

Table 50. World One-Dimensional (1D) Nanostructured Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World One-Dimensional (1D) Nanostructured Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World One-Dimensional (1D) Nanostructured Materials Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World One-Dimensional (1D) Nanostructured Materials Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World One-Dimensional (1D) Nanostructured Materials Production Value by Composition, (USD Million), 2021 & 2025 & 2032

Table 55. World One-Dimensional (1D) Nanostructured Materials Production by Composition (2021-2026) & (Tons)

Table 56. World One-Dimensional (1D) Nanostructured Materials Production by Composition (2027-2032) & (Tons)

Table 57. World One-Dimensional (1D) Nanostructured Materials Production Value by Composition (2021-2026) & (USD Million)

Table 58. World One-Dimensional (1D) Nanostructured Materials Production Value by

Composition (2027-2032) & (USD Million)

Table 59. World One-Dimensional (1D) Nanostructured Materials Average Price by Composition (2021-2026) & (US\$/kg)

Table 60. World One-Dimensional (1D) Nanostructured Materials Average Price by Composition (2027-2032) & (US\$/kg)

Table 61. World One-Dimensional (1D) Nanostructured Materials Production Value by Preparation Method, (USD Million), 2021 & 2025 & 2032

Table 62. World One-Dimensional (1D) Nanostructured Materials Production by Preparation Method (2021-2026) & (Tons)

Table 63. World One-Dimensional (1D) Nanostructured Materials Production by Preparation Method (2027-2032) & (Tons)

Table 64. World One-Dimensional (1D) Nanostructured Materials Production Value by Preparation Method (2021-2026) & (USD Million)

Table 65. World One-Dimensional (1D) Nanostructured Materials Production Value by Preparation Method (2027-2032) & (USD Million)

Table 66. World One-Dimensional (1D) Nanostructured Materials Average Price by Preparation Method (2021-2026) & (US\$/kg)

Table 67. World One-Dimensional (1D) Nanostructured Materials Average Price by Preparation Method (2027-2032) & (US\$/kg)

Table 68. World One-Dimensional (1D) Nanostructured Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World One-Dimensional (1D) Nanostructured Materials Production by Application (2021-2026) & (Tons)

Table 70. World One-Dimensional (1D) Nanostructured Materials Production by Application (2027-2032) & (Tons)

Table 71. World One-Dimensional (1D) Nanostructured Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World One-Dimensional (1D) Nanostructured Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World One-Dimensional (1D) Nanostructured Materials Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World One-Dimensional (1D) Nanostructured Materials Average Price by Application (2027-2032) & (US\$/kg)

Table 75. OCSiAl Basic Information, Manufacturing Base and Competitors

Table 76. OCSiAl Major Business

Table 77. OCSiAl One-Dimensional (1D) Nanostructured Materials Product and Services

Table 78. OCSiAl One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 79. OCSiAl Recent Developments/Updates

Table 80. OCSiAl Competitive Strengths & Weaknesses

Table 81. LG Chem Basic Information, Manufacturing Base and Competitors

Table 82. LG Chem Major Business

Table 83. LG Chem One-Dimensional (1D) Nanostructured Materials Product and Services

Table 84. LG Chem One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. LG Chem Recent Developments/Updates

Table 86. LG Chem Competitive Strengths & Weaknesses

Table 87. Arkema Basic Information, Manufacturing Base and Competitors

Table 88. Arkema Major Business

Table 89. Arkema One-Dimensional (1D) Nanostructured Materials Product and Services

Table 90. Arkema One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Arkema Recent Developments/Updates

Table 92. Arkema Competitive Strengths & Weaknesses

Table 93. Nanocyl Basic Information, Manufacturing Base and Competitors

Table 94. Nanocyl Major Business

Table 95. Nanocyl One-Dimensional (1D) Nanostructured Materials Product and Services

Table 96. Nanocyl One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Nanocyl Recent Developments/Updates

Table 98. Nanocyl Competitive Strengths & Weaknesses

Table 99. Cabot Basic Information, Manufacturing Base and Competitors

Table 100. Cabot Major Business

Table 101. Cabot One-Dimensional (1D) Nanostructured Materials Product and Services

Table 102. Cabot One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Cabot Recent Developments/Updates

Table 104. Cabot Competitive Strengths & Weaknesses

- Table 105. Resonac Basic Information, Manufacturing Base and Competitors
- Table 106. Resonac Major Business
- Table 107. Resonac One-Dimensional (1D) Nanostructured Materials Product and Services
- Table 108. Resonac One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Resonac Recent Developments/Updates
- Table 110. Resonac Competitive Strengths & Weaknesses
- Table 111. Timesnano Basic Information, Manufacturing Base and Competitors
- Table 112. Timesnano Major Business
- Table 113. Timesnano One-Dimensional (1D) Nanostructured Materials Product and Services
- Table 114. Timesnano One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Timesnano Recent Developments/Updates
- Table 116. Timesnano Competitive Strengths & Weaknesses
- Table 117. Pyrograf Products Basic Information, Manufacturing Base and Competitors
- Table 118. Pyrograf Products Major Business
- Table 119. Pyrograf Products One-Dimensional (1D) Nanostructured Materials Product and Services
- Table 120. Pyrograf Products One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Pyrograf Products Recent Developments/Updates
- Table 122. Pyrograf Products Competitive Strengths & Weaknesses
- Table 123. C3Nano Basic Information, Manufacturing Base and Competitors
- Table 124. C3Nano Major Business
- Table 125. C3Nano One-Dimensional (1D) Nanostructured Materials Product and Services
- Table 126. C3Nano One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. C3Nano Recent Developments/Updates
- Table 128. C3Nano Competitive Strengths & Weaknesses
- Table 129. CTI Materials Basic Information, Manufacturing Base and Competitors
- Table 130. CTI Materials Major Business
- Table 131. CTI Materials One-Dimensional (1D) Nanostructured Materials Product and

Services

Table 132. CTI Materials One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. CTI Materials Recent Developments/Updates

Table 134. CTI Materials Competitive Strengths & Weaknesses

Table 135. Chemipaz Basic Information, Manufacturing Base and Competitors

Table 136. Chemipaz Major Business

Table 137. Chemipaz One-Dimensional (1D) Nanostructured Materials Product and Services

Table 138. Chemipaz One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Chemipaz Recent Developments/Updates

Table 140. Chemipaz Competitive Strengths & Weaknesses

Table 141. Qnity Electronics Basic Information, Manufacturing Base and Competitors

Table 142. Qnity Electronics Major Business

Table 143. Qnity Electronics One-Dimensional (1D) Nanostructured Materials Product and Services

Table 144. Qnity Electronics One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Qnity Electronics Recent Developments/Updates

Table 146. Qnity Electronics Competitive Strengths & Weaknesses

Table 147. Revolution Fibres Basic Information, Manufacturing Base and Competitors

Table 148. Revolution Fibres Major Business

Table 149. Revolution Fibres One-Dimensional (1D) Nanostructured Materials Product and Services

Table 150. Revolution Fibres One-Dimensional (1D) Nanostructured Materials Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Revolution Fibres Recent Developments/Updates

Table 152. Revolution Fibres Competitive Strengths & Weaknesses

Table 153. Global Key Players of One-Dimensional (1D) Nanostructured Materials Upstream (Raw Materials)

Table 154. Global One-Dimensional (1D) Nanostructured Materials Typical Customers

Table 155. One-Dimensional (1D) Nanostructured Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. One-Dimensional (1D) Nanostructured Materials Picture

Figure 2. World One-Dimensional (1D) Nanostructured Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World One-Dimensional (1D) Nanostructured Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World One-Dimensional (1D) Nanostructured Materials Production (2021-2032) & (Tons)

Figure 5. World One-Dimensional (1D) Nanostructured Materials Average Price (2021-2032) & (US\$/kg)

Figure 6. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Region (2021-2032)

Figure 7. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Region (2021-2032)

Figure 8. North America One-Dimensional (1D) Nanostructured Materials Production (2021-2032) & (Tons)

Figure 9. Europe One-Dimensional (1D) Nanostructured Materials Production (2021-2032) & (Tons)

Figure 10. China One-Dimensional (1D) Nanostructured Materials Production (2021-2032) & (Tons)

Figure 11. Japan One-Dimensional (1D) Nanostructured Materials Production (2021-2032) & (Tons)

Figure 12. One-Dimensional (1D) Nanostructured Materials Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 15. World One-Dimensional (1D) Nanostructured Materials Consumption Market Share by Region (2021-2032)

Figure 16. United States One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 17. China One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 18. Europe One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 19. Japan One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 20. South Korea One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 21. ASEAN One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 22. India One-Dimensional (1D) Nanostructured Materials Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of One-Dimensional (1D) Nanostructured Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for One-Dimensional (1D) Nanostructured Materials Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for One-Dimensional (1D) Nanostructured Materials Markets in 2025

Figure 26. United States VS China: One-Dimensional (1D) Nanostructured Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: One-Dimensional (1D) Nanostructured Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: One-Dimensional (1D) Nanostructured Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share 2025

Figure 30. China Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share 2025

Figure 31. Rest of World Based Manufacturers One-Dimensional (1D) Nanostructured Materials Production Market Share 2025

Figure 32. World One-Dimensional (1D) Nanostructured Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Type in 2025

Figure 34. Nanowires

Figure 35. Nanorods

Figure 36. Nanotubes

Figure 37. Nanobelts

Figure 38. Nanoneedles

Figure 39. Others

Figure 40. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Type (2021-2032)

Figure 41. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Type (2021-2032)

Figure 42. World One-Dimensional (1D) Nanostructured Materials Average Price by

Type (2021-2032) & (US\$/kg)

Figure 43. World One-Dimensional (1D) Nanostructured Materials Production Value by Composition, (USD Million), 2021 & 2025 & 2032

Figure 44. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Composition in 2025

Figure 45. Elements

Figure 46. Oxides

Figure 47. Sulfides/Selenides

Figure 48. Nitrogenides/Carbides

Figure 49. Polymers

Figure 50. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Composition (2021-2032)

Figure 51. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Composition (2021-2032)

Figure 52. World One-Dimensional (1D) Nanostructured Materials Average Price by Composition (2021-2032) & (US\$/kg)

Figure 53. World One-Dimensional (1D) Nanostructured Materials Production Value by Preparation Method, (USD Million), 2021 & 2025 & 2032

Figure 54. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Preparation Method in 2025

Figure 55. Gas Phase Method

Figure 56. Liquid Phase Method

Figure 57. Solid Phase Method

Figure 58. Electrochemical Method

Figure 59. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Preparation Method (2021-2032)

Figure 60. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Preparation Method (2021-2032)

Figure 61. World One-Dimensional (1D) Nanostructured Materials Average Price by Preparation Method (2021-2032) & (US\$/kg)

Figure 62. World One-Dimensional (1D) Nanostructured Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Application in 2025

Figure 64. Electronic Information

Figure 65. Energy Storage and Conversion

Figure 66. Biomedicine

Figure 67. Environmental Governance

Figure 68. Catalysis

Figure 69. Others

Figure 70. World One-Dimensional (1D) Nanostructured Materials Production Market Share by Application (2021-2032)

Figure 71. World One-Dimensional (1D) Nanostructured Materials Production Value Market Share by Application (2021-2032)

Figure 72. World One-Dimensional (1D) Nanostructured Materials Average Price by Application (2021-2032) & (US\$/kg)

Figure 73. One-Dimensional (1D) Nanostructured Materials Industry Chain

Figure 74. One-Dimensional (1D) Nanostructured Materials Procurement Model

Figure 75. One-Dimensional (1D) Nanostructured Materials Sales Model

Figure 76. One-Dimensional (1D) Nanostructured Materials Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

I would like to order

Product name: Global One-Dimensional (1D) Nanostructured Materials Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GCE0F327A422EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GCE0F327A422EN.html>