

Global Plasmonic Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plasmonic Materials market size is expected to reach \$ 1118 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

Plasmonic materials are functional materials capable of supporting surface plasmon resonance through the collective oscillation of free electrons when interacting with electromagnetic waves, enabling strong light-matter interactions at the nanoscale. These materials typically include noble metals, doped semiconductors, conductive oxides, and emerging two-dimensional materials, and are widely used in applications such as biosensing, photonic devices, surface-enhanced spectroscopy, advanced imaging, and optoelectronic research. From a value chain perspective, upstream activities include metal precursors, semiconductor materials, nanomaterial synthesis chemicals, and deposition equipment, midstream processes focus on material synthesis, nanostructuring, thin-film fabrication, and surface functionalization, while downstream demand is driven by research institutions, photonics manufacturers, biosensor developers, semiconductor companies, and advanced materials integrators. In 2025, the average selling price of plasmonic materials is approximately US\$32,500 per ton, with global sales volume reaching around 18.5 thousand tons. The industry maintains a gross margin of 45%-65%, supported by high technical barriers, customization requirements, intellectual property intensity, and growing demand for high-performance nanophotonic materials.

Industry analysis indicates that plasmonic materials are transitioning from primarily academic research materials toward early-stage commercial adoption in sensing, imaging, and photonic integration. Market growth is driven by advances in nanofabrication, improved material stability, and expanding use of plasmon-enhanced effects in biological and optoelectronic applications.

This report studies the global Plasmonic Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plasmonic 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 Plasmonic Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plasmonic Materials total production and demand, 2021-2032, (Kilotons)

Global Plasmonic Materials total production value, 2021-2032, (USD Million)

Global Plasmonic Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Plasmonic Materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Plasmonic Materials domestic production, consumption, key domestic manufacturers and share

Global Plasmonic Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Plasmonic Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Plasmonic Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Plasmonic 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 Tanaka Precious Metals, Heraeus, Umicore, Johnson Matthey, Merck KGaA, Nanopartz, nanoComposix, Cytodiagnosics, Nanostructured & Amorphous Materials, Nanospectra Biosciences, 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 Plasmonic Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Plasmonic Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plasmonic Materials Market, Segmentation by Type:

Noble Metal-based Materials

Doped Semiconductor Materials

Conductive Oxides

Two-dimensional Plasmonic Materials

Global Plasmonic Materials Market, Segmentation by Optical Frequency:

Visible Range

Near-infrared

Mid-infrared

Global Plasmonic Materials Market, Segmentation by Metal Composition:

Gold-based

Silver-based

Aluminum-based

Copper-based

Alloy / Multi-metal

Global Plasmonic Materials Market, Segmentation by Application:

Research Institutions

Photonics Manufacturers

Biosensor Developers

Semiconductor Companies

Companies Profiled:

Tanaka Precious Metals

Heraeus

Umicore

Johnson Matthey

Merck KGaA

Nanopartz

nanoComposix

Cyodiagnosics

Nanostructured & Amorphous Materials

Nanospectra Biosciences

Agilent Technologies

Spherotech

Nanjing XFNANO Materials

Beijing Dk Nano Technology

Suzhou Nanomicro Technology

Key Questions Answered:

1. How big is the global Plasmonic Materials market?
2. What is the demand of the global Plasmonic Materials market?
3. What is the year over year growth of the global Plasmonic Materials market?
4. What is the production and production value of the global Plasmonic Materials market?
5. Who are the key producers in the global Plasmonic Materials market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Plasmonic Materials Demand (2021-2032)
- 2.2 World Plasmonic Materials Consumption by Region
 - 2.2.1 World Plasmonic Materials Consumption by Region (2021-2026)
 - 2.2.2 World Plasmonic Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States Plasmonic Materials Consumption (2021-2032)
- 2.4 China Plasmonic Materials Consumption (2021-2032)
- 2.5 Europe Plasmonic Materials Consumption (2021-2032)
- 2.6 Japan Plasmonic Materials Consumption (2021-2032)
- 2.7 South Korea Plasmonic Materials Consumption (2021-2032)
- 2.8 ASEAN Plasmonic Materials Consumption (2021-2032)
- 2.9 India Plasmonic Materials Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Plasmonic Materials Production Value by Manufacturer (2021-2026)

- 3.2 World Plasmonic Materials Production by Manufacturer (2021-2026)
- 3.3 World Plasmonic Materials Average Price by Manufacturer (2021-2026)
- 3.4 Plasmonic Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Plasmonic Materials Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Plasmonic Materials in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Plasmonic Materials in 2025
- 3.6 Plasmonic Materials Market: Overall Company Footprint Analysis
 - 3.6.1 Plasmonic Materials Market: Region Footprint
 - 3.6.2 Plasmonic Materials Market: Company Product Type Footprint
 - 3.6.3 Plasmonic 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: Plasmonic Materials Production Value Comparison
 - 4.1.1 United States VS China: Plasmonic Materials Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Plasmonic Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Plasmonic Materials Production Comparison
 - 4.2.1 United States VS China: Plasmonic Materials Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Plasmonic Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Plasmonic Materials Consumption Comparison
 - 4.3.1 United States VS China: Plasmonic Materials Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Plasmonic Materials Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Plasmonic Materials Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Plasmonic Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Plasmonic Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Plasmonic Materials Production (2021-2026)

4.5 China Based Plasmonic Materials Manufacturers and Market Share

4.5.1 China Based Plasmonic Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Plasmonic Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Plasmonic Materials Production (2021-2026)

4.6 Rest of World Based Plasmonic Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Plasmonic Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Plasmonic Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Plasmonic Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Plasmonic Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Noble Metal-based Materials

5.2.2 Doped Semiconductor Materials

5.2.3 Conductive Oxides

5.2.4 Two-dimensional Plasmonic Materials

5.3 Market Segment by Type

5.3.1 World Plasmonic Materials Production by Type (2021-2032)

5.3.2 World Plasmonic Materials Production Value by Type (2021-2032)

5.3.3 World Plasmonic Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPTICAL FREQUENCY

6.1 World Plasmonic Materials Market Size Overview by Optical Frequency: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Optical Frequency

6.2.1 Visible Range

6.2.2 Near-infrared

6.2.3 Mid-infrared

6.3 Market Segment by Optical Frequency

6.3.1 World Plasmonic Materials Production by Optical Frequency (2021-2032)

- 6.3.2 World Plasmonic Materials Production Value by Optical Frequency (2021-2032)
- 6.3.3 World Plasmonic Materials Average Price by Optical Frequency (2021-2032)

7 MARKET ANALYSIS BY METAL COMPOSITION

- 7.1 World Plasmonic Materials Market Size Overview by Metal Composition: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Metal Composition
 - 7.2.1 Gold-based
 - 7.2.2 Silver-based
 - 7.2.3 Aluminum-based
 - 7.2.4 Copper-based
 - 7.2.5 Alloy / Multi-metal
- 7.3 Market Segment by Metal Composition
 - 7.3.1 World Plasmonic Materials Production by Metal Composition (2021-2032)
 - 7.3.2 World Plasmonic Materials Production Value by Metal Composition (2021-2032)
 - 7.3.3 World Plasmonic Materials Average Price by Metal Composition (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Plasmonic Materials Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Research Institutions
 - 8.2.2 Photonics Manufacturers
 - 8.2.3 Biosensor Developers
 - 8.2.4 Semiconductor Companies
- 8.3 Market Segment by Application
 - 8.3.1 World Plasmonic Materials Production by Application (2021-2032)
 - 8.3.2 World Plasmonic Materials Production Value by Application (2021-2032)
 - 8.3.3 World Plasmonic Materials Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Tanaka Precious Metals
 - 9.1.1 Tanaka Precious Metals Details
 - 9.1.2 Tanaka Precious Metals Major Business
 - 9.1.3 Tanaka Precious Metals Plasmonic Materials Product and Services
 - 9.1.4 Tanaka Precious Metals Plasmonic Materials Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.1.5 Tanaka Precious Metals Recent Developments/Updates

9.1.6 Tanaka Precious Metals Competitive Strengths & Weaknesses

9.2 Heraeus

9.2.1 Heraeus Details

9.2.2 Heraeus Major Business

9.2.3 Heraeus Plasmonic Materials Product and Services

9.2.4 Heraeus Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Heraeus Recent Developments/Updates

9.2.6 Heraeus Competitive Strengths & Weaknesses

9.3 Umicore

9.3.1 Umicore Details

9.3.2 Umicore Major Business

9.3.3 Umicore Plasmonic Materials Product and Services

9.3.4 Umicore Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Umicore Recent Developments/Updates

9.3.6 Umicore Competitive Strengths & Weaknesses

9.4 Johnson Matthey

9.4.1 Johnson Matthey Details

9.4.2 Johnson Matthey Major Business

9.4.3 Johnson Matthey Plasmonic Materials Product and Services

9.4.4 Johnson Matthey Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Johnson Matthey Recent Developments/Updates

9.4.6 Johnson Matthey Competitive Strengths & Weaknesses

9.5 Merck KGaA

9.5.1 Merck KGaA Details

9.5.2 Merck KGaA Major Business

9.5.3 Merck KGaA Plasmonic Materials Product and Services

9.5.4 Merck KGaA Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Merck KGaA Recent Developments/Updates

9.5.6 Merck KGaA Competitive Strengths & Weaknesses

9.6 Nanopartz

9.6.1 Nanopartz Details

9.6.2 Nanopartz Major Business

9.6.3 Nanopartz Plasmonic Materials Product and Services

9.6.4 Nanopartz Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Nanopartz Recent Developments/Updates

9.6.6 Nanopartz Competitive Strengths & Weaknesses

9.7 nanoComposix

9.7.1 nanoComposix Details

9.7.2 nanoComposix Major Business

9.7.3 nanoComposix Plasmonic Materials Product and Services

9.7.4 nanoComposix Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 nanoComposix Recent Developments/Updates

9.7.6 nanoComposix Competitive Strengths & Weaknesses

9.8 Cytodiagnosics

9.8.1 Cytodiagnosics Details

9.8.2 Cytodiagnosics Major Business

9.8.3 Cytodiagnosics Plasmonic Materials Product and Services

9.8.4 Cytodiagnosics Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Cytodiagnosics Recent Developments/Updates

9.8.6 Cytodiagnosics Competitive Strengths & Weaknesses

9.9 Nanostructured & Amorphous Materials

9.9.1 Nanostructured & Amorphous Materials Details

9.9.2 Nanostructured & Amorphous Materials Major Business

9.9.3 Nanostructured & Amorphous Materials Plasmonic Materials Product and Services

9.9.4 Nanostructured & Amorphous Materials Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Nanostructured & Amorphous Materials Recent Developments/Updates

9.9.6 Nanostructured & Amorphous Materials Competitive Strengths & Weaknesses

9.10 Nanospectra Biosciences

9.10.1 Nanospectra Biosciences Details

9.10.2 Nanospectra Biosciences Major Business

9.10.3 Nanospectra Biosciences Plasmonic Materials Product and Services

9.10.4 Nanospectra Biosciences Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Nanospectra Biosciences Recent Developments/Updates

9.10.6 Nanospectra Biosciences Competitive Strengths & Weaknesses

9.11 Agilent Technologies

9.11.1 Agilent Technologies Details

- 9.11.2 Agilent Technologies Major Business
- 9.11.3 Agilent Technologies Plasmonic Materials Product and Services
- 9.11.4 Agilent Technologies Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Agilent Technologies Recent Developments/Updates
- 9.11.6 Agilent Technologies Competitive Strengths & Weaknesses
- 9.12 Spherotech
 - 9.12.1 Spherotech Details
 - 9.12.2 Spherotech Major Business
 - 9.12.3 Spherotech Plasmonic Materials Product and Services
 - 9.12.4 Spherotech Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Spherotech Recent Developments/Updates
 - 9.12.6 Spherotech Competitive Strengths & Weaknesses
- 9.13 Nanjing XFNANO Materials
 - 9.13.1 Nanjing XFNANO Materials Details
 - 9.13.2 Nanjing XFNANO Materials Major Business
 - 9.13.3 Nanjing XFNANO Materials Plasmonic Materials Product and Services
 - 9.13.4 Nanjing XFNANO Materials Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Nanjing XFNANO Materials Recent Developments/Updates
 - 9.13.6 Nanjing XFNANO Materials Competitive Strengths & Weaknesses
- 9.14 Beijing Dk Nano Technology
 - 9.14.1 Beijing Dk Nano Technology Details
 - 9.14.2 Beijing Dk Nano Technology Major Business
 - 9.14.3 Beijing Dk Nano Technology Plasmonic Materials Product and Services
 - 9.14.4 Beijing Dk Nano Technology Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Beijing Dk Nano Technology Recent Developments/Updates
 - 9.14.6 Beijing Dk Nano Technology Competitive Strengths & Weaknesses
- 9.15 Suzhou Nanomicro Technology
 - 9.15.1 Suzhou Nanomicro Technology Details
 - 9.15.2 Suzhou Nanomicro Technology Major Business
 - 9.15.3 Suzhou Nanomicro Technology Plasmonic Materials Product and Services
 - 9.15.4 Suzhou Nanomicro Technology Plasmonic Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Suzhou Nanomicro Technology Recent Developments/Updates
 - 9.15.6 Suzhou Nanomicro Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Plasmonic Materials Industry Chain
- 10.2 Plasmonic Materials Upstream Analysis
 - 10.2.1 Plasmonic Materials Core Raw Materials
 - 10.2.2 Main Manufacturers of Plasmonic Materials Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Plasmonic Materials Production Mode
- 10.6 Plasmonic Materials Procurement Model
- 10.7 Plasmonic Materials Industry Sales Model and Sales Channels
 - 10.7.1 Plasmonic Materials Sales Model
 - 10.7.2 Plasmonic 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 Plasmonic Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Plasmonic Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Plasmonic Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Plasmonic Materials Production Value Market Share by Region (2021-2026)

Table 5. World Plasmonic Materials Production Value Market Share by Region (2027-2032)

Table 6. World Plasmonic Materials Production by Region (2021-2026) & (Kilotons)

Table 7. World Plasmonic Materials Production by Region (2027-2032) & (Kilotons)

Table 8. World Plasmonic Materials Production Market Share by Region (2021-2026)

Table 9. World Plasmonic Materials Production Market Share by Region (2027-2032)

Table 10. World Plasmonic Materials Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Plasmonic Materials Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Plasmonic Materials Major Market Trends

Table 13. World Plasmonic Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Plasmonic Materials Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Plasmonic Materials Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Plasmonic Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Plasmonic Materials Producers in 2025

Table 18. World Plasmonic Materials Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Plasmonic Materials Producers in 2025

Table 20. World Plasmonic Materials Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Plasmonic Materials Company Evaluation Quadrant

Table 22. World Plasmonic Materials Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Plasmonic Materials Production Site of Key Manufacturer

Table 24. Plasmonic Materials Market: Company Product Type Footprint

Table 25. Plasmonic Materials Market: Company Product Application Footprint

Table 26. Plasmonic Materials Competitive Factors

Table 27. Plasmonic Materials New Entrant and Capacity Expansion Plans

Table 28. Plasmonic Materials Mergers & Acquisitions Activity

Table 29. United States VS China Plasmonic Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Plasmonic Materials Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Plasmonic Materials Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Plasmonic Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Plasmonic Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Plasmonic Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Plasmonic Materials Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Plasmonic Materials Production Market Share (2021-2026)

Table 37. China Based Plasmonic Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Plasmonic Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Plasmonic Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Plasmonic Materials Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Plasmonic Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Plasmonic Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Plasmonic Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Plasmonic Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Plasmonic Materials Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Plasmonic Materials Production Market Share (2021-2026)

Table 47. World Plasmonic Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Plasmonic Materials Production by Type (2021-2026) & (Kilotons)

Table 49. World Plasmonic Materials Production by Type (2027-2032) & (Kilotons)

Table 50. World Plasmonic Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Plasmonic Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Plasmonic Materials Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Plasmonic Materials Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Plasmonic Materials Production Value by Optical Frequency, (USD Million), 2021 & 2025 & 2032

Table 55. World Plasmonic Materials Production by Optical Frequency (2021-2026) & (Kilotons)

Table 56. World Plasmonic Materials Production by Optical Frequency (2027-2032) & (Kilotons)

Table 57. World Plasmonic Materials Production Value by Optical Frequency (2021-2026) & (USD Million)

Table 58. World Plasmonic Materials Production Value by Optical Frequency (2027-2032) & (USD Million)

Table 59. World Plasmonic Materials Average Price by Optical Frequency (2021-2026) & (US\$/Ton)

Table 60. World Plasmonic Materials Average Price by Optical Frequency (2027-2032) & (US\$/Ton)

Table 61. World Plasmonic Materials Production Value by Metal Composition, (USD Million), 2021 & 2025 & 2032

Table 62. World Plasmonic Materials Production by Metal Composition (2021-2026) & (Kilotons)

Table 63. World Plasmonic Materials Production by Metal Composition (2027-2032) & (Kilotons)

Table 64. World Plasmonic Materials Production Value by Metal Composition (2021-2026) & (USD Million)

Table 65. World Plasmonic Materials Production Value by Metal Composition (2027-2032) & (USD Million)

Table 66. World Plasmonic Materials Average Price by Metal Composition (2021-2026)

& (US\$/Ton)

Table 67. World Plasmonic Materials Average Price by Metal Composition (2027-2032)

& (US\$/Ton)

Table 68. World Plasmonic Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Plasmonic Materials Production by Application (2021-2026) & (Kilotons)

Table 70. World Plasmonic Materials Production by Application (2027-2032) & (Kilotons)

Table 71. World Plasmonic Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World Plasmonic Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World Plasmonic Materials Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Plasmonic Materials Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Tanaka Precious Metals Basic Information, Manufacturing Base and Competitors

Table 76. Tanaka Precious Metals Major Business

Table 77. Tanaka Precious Metals Plasmonic Materials Product and Services

Table 78. Tanaka Precious Metals Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Tanaka Precious Metals Recent Developments/Updates

Table 80. Tanaka Precious Metals Competitive Strengths & Weaknesses

Table 81. Heraeus Basic Information, Manufacturing Base and Competitors

Table 82. Heraeus Major Business

Table 83. Heraeus Plasmonic Materials Product and Services

Table 84. Heraeus Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Heraeus Recent Developments/Updates

Table 86. Heraeus Competitive Strengths & Weaknesses

Table 87. Umicore Basic Information, Manufacturing Base and Competitors

Table 88. Umicore Major Business

Table 89. Umicore Plasmonic Materials Product and Services

Table 90. Umicore Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Umicore Recent Developments/Updates

- Table 92. Umicore Competitive Strengths & Weaknesses
- Table 93. Johnson Matthey Basic Information, Manufacturing Base and Competitors
- Table 94. Johnson Matthey Major Business
- Table 95. Johnson Matthey Plasmonic Materials Product and Services
- Table 96. Johnson Matthey Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Johnson Matthey Recent Developments/Updates
- Table 98. Johnson Matthey Competitive Strengths & Weaknesses
- Table 99. Merck KGaA Basic Information, Manufacturing Base and Competitors
- Table 100. Merck KGaA Major Business
- Table 101. Merck KGaA Plasmonic Materials Product and Services
- Table 102. Merck KGaA Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Merck KGaA Recent Developments/Updates
- Table 104. Merck KGaA Competitive Strengths & Weaknesses
- Table 105. Nanopartz Basic Information, Manufacturing Base and Competitors
- Table 106. Nanopartz Major Business
- Table 107. Nanopartz Plasmonic Materials Product and Services
- Table 108. Nanopartz Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Nanopartz Recent Developments/Updates
- Table 110. Nanopartz Competitive Strengths & Weaknesses
- Table 111. nanoComposix Basic Information, Manufacturing Base and Competitors
- Table 112. nanoComposix Major Business
- Table 113. nanoComposix Plasmonic Materials Product and Services
- Table 114. nanoComposix Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. nanoComposix Recent Developments/Updates
- Table 116. nanoComposix Competitive Strengths & Weaknesses
- Table 117. Cytodiagnosics Basic Information, Manufacturing Base and Competitors
- Table 118. Cytodiagnosics Major Business
- Table 119. Cytodiagnosics Plasmonic Materials Product and Services
- Table 120. Cytodiagnosics Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Cytodiagnosics Recent Developments/Updates
- Table 122. Cytodiagnosics Competitive Strengths & Weaknesses
- Table 123. Nanostructured & Amorphous Materials Basic Information, Manufacturing Base and Competitors
- Table 124. Nanostructured & Amorphous Materials Major Business

Table 125. Nanostructured & Amorphous Materials Plasmonic Materials Product and Services

Table 126. Nanostructured & Amorphous Materials Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Nanostructured & Amorphous Materials Recent Developments/Updates

Table 128. Nanostructured & Amorphous Materials Competitive Strengths & Weaknesses

Table 129. Nanospectra Biosciences Basic Information, Manufacturing Base and Competitors

Table 130. Nanospectra Biosciences Major Business

Table 131. Nanospectra Biosciences Plasmonic Materials Product and Services

Table 132. Nanospectra Biosciences Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Nanospectra Biosciences Recent Developments/Updates

Table 134. Nanospectra Biosciences Competitive Strengths & Weaknesses

Table 135. Agilent Technologies Basic Information, Manufacturing Base and Competitors

Table 136. Agilent Technologies Major Business

Table 137. Agilent Technologies Plasmonic Materials Product and Services

Table 138. Agilent Technologies Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Agilent Technologies Recent Developments/Updates

Table 140. Agilent Technologies Competitive Strengths & Weaknesses

Table 141. Spherotech Basic Information, Manufacturing Base and Competitors

Table 142. Spherotech Major Business

Table 143. Spherotech Plasmonic Materials Product and Services

Table 144. Spherotech Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Spherotech Recent Developments/Updates

Table 146. Spherotech Competitive Strengths & Weaknesses

Table 147. Nanjing XFNANO Materials Basic Information, Manufacturing Base and Competitors

Table 148. Nanjing XFNANO Materials Major Business

Table 149. Nanjing XFNANO Materials Plasmonic Materials Product and Services

Table 150. Nanjing XFNANO Materials Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. Nanjing XFNANO Materials Recent Developments/Updates

Table 152. Nanjing XFNANO Materials Competitive Strengths & Weaknesses

Table 153. Beijing Dk Nano Technology Basic Information, Manufacturing Base and Competitors

Table 154. Beijing Dk Nano Technology Major Business

Table 155. Beijing Dk Nano Technology Plasmonic Materials Product and Services

Table 156. Beijing Dk Nano Technology Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Beijing Dk Nano Technology Recent Developments/Updates

Table 158. Beijing Dk Nano Technology Competitive Strengths & Weaknesses

Table 159. Suzhou Nanomicro Technology Basic Information, Manufacturing Base and Competitors

Table 160. Suzhou Nanomicro Technology Major Business

Table 161. Suzhou Nanomicro Technology Plasmonic Materials Product and Services

Table 162. Suzhou Nanomicro Technology Plasmonic Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Suzhou Nanomicro Technology Recent Developments/Updates

Table 164. Suzhou Nanomicro Technology Competitive Strengths & Weaknesses

Table 165. Global Key Players of Plasmonic Materials Upstream (Raw Materials)

Table 166. Global Plasmonic Materials Typical Customers

Table 167. Plasmonic Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Plasmonic Materials Picture

Figure 2. World Plasmonic Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Plasmonic Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Plasmonic Materials Production (2021-2032) & (Kilotons)

Figure 5. World Plasmonic Materials Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Plasmonic Materials Production Value Market Share by Region (2021-2032)

Figure 7. World Plasmonic Materials Production Market Share by Region (2021-2032)

Figure 8. North America Plasmonic Materials Production (2021-2032) & (Kilotons)

Figure 9. Europe Plasmonic Materials Production (2021-2032) & (Kilotons)

Figure 10. China Plasmonic Materials Production (2021-2032) & (Kilotons)

Figure 11. Japan Plasmonic Materials Production (2021-2032) & (Kilotons)

Figure 12. Plasmonic Materials Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 15. World Plasmonic Materials Consumption Market Share by Region (2021-2032)

Figure 16. United States Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 17. China Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 22. India Plasmonic Materials Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Plasmonic Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Plasmonic Materials Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Plasmonic Materials Markets in 2025

Figure 26. United States VS China: Plasmonic Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Plasmonic Materials Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Plasmonic Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Plasmonic Materials Production Market Share 2025

Figure 30. China Based Manufacturers Plasmonic Materials Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Plasmonic Materials Production Market Share 2025

Figure 32. World Plasmonic Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Plasmonic Materials Production Value Market Share by Type in 2025

Figure 34. Noble Metal-based Materials

Figure 35. Doped Semiconductor Materials

Figure 36. Conductive Oxides

Figure 37. Two-dimensional Plasmonic Materials

Figure 38. World Plasmonic Materials Production Market Share by Type (2021-2032)

Figure 39. World Plasmonic Materials Production Value Market Share by Type (2021-2032)

Figure 40. World Plasmonic Materials Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Plasmonic Materials Production Value by Optical Frequency, (USD Million), 2021 & 2025 & 2032

Figure 42. World Plasmonic Materials Production Value Market Share by Optical Frequency in 2025

Figure 43. Visible Range

Figure 44. Near-infrared

Figure 45. Mid-infrared

Figure 46. World Plasmonic Materials Production Market Share by Optical Frequency (2021-2032)

Figure 47. World Plasmonic Materials Production Value Market Share by Optical Frequency (2021-2032)

Figure 48. World Plasmonic Materials Average Price by Optical Frequency (2021-2032) & (US\$/Ton)

Figure 49. World Plasmonic Materials Production Value by Metal Composition, (USD Million), 2021 & 2025 & 2032

Figure 50. World Plasmonic Materials Production Value Market Share by Metal Composition in 2025

Figure 51. Gold-based

Figure 52. Silver-based

Figure 53. Aluminum-based

Figure 54. Copper-based

Figure 55. Alloy / Multi-metal

Figure 56. World Plasmonic Materials Production Market Share by Metal Composition (2021-2032)

Figure 57. World Plasmonic Materials Production Value Market Share by Metal Composition (2021-2032)

Figure 58. World Plasmonic Materials Average Price by Metal Composition (2021-2032) & (US\$/Ton)

Figure 59. World Plasmonic Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Plasmonic Materials Production Value Market Share by Application in 2025

Figure 61. Research Institutions

Figure 62. Photonics Manufacturers

Figure 63. Biosensor Developers

Figure 64. Semiconductor Companies

Figure 65. World Plasmonic Materials Production Market Share by Application (2021-2032)

Figure 66. World Plasmonic Materials Production Value Market Share by Application (2021-2032)

Figure 67. World Plasmonic Materials Average Price by Application (2021-2032) & (US\$/Ton)

Figure 68. Plasmonic Materials Industry Chain

Figure 69. Plasmonic Materials Procurement Model

Figure 70. Plasmonic Materials Sales Model

Figure 71. Plasmonic Materials Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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