

Global Optical Metamaterial Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Optical Metamaterial market size is expected to reach \$ 1290 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

Optical metamaterials are engineered material and device platforms that manipulate optical phase, amplitude, polarization, dispersion, and wavefronts through subwavelength nano-architectures rather than relying primarily on the intrinsic optical constants of natural materials. Commercial implementations are increasingly dominated by optical metasurfaces and meta-optical devices, typically realized as arrays of nanopillars, nanoholes, resonant meta-atoms, and periodic or aperiodic patterns built on high-index dielectric or semiconductor thin films, with metallic and hybrid approaches used where appropriate. These products are commonly manufactured via wafer-level processes or replication routes and commercialized as metalenses, wavefront shapers, polarization and spectral components, structured-light elements, and sensing optics integrated into imaging and perception stacks. The largest demand is driven by applications requiring miniaturization, high integration, and multifunctional optics, including consumer 3D sensing and imaging, industrial and scientific inspection, automotive and robotic perception, and spectral or polarization imaging, where scalable manufacturing is closely tied to semiconductor-grade nanofabrication ecosystems.

From a global industry perspective, optical metamaterials are undergoing a pivotal transition from laboratory demonstrations to an engineering platform capable of scalable manufacturing and system-level impact. The commercial value is shifting away from merely showcasing exotic optical phenomena toward re-architecting imaging and sensing stacks. As smart devices continue to demand thinner, smaller, and more highly integrated optics for cameras, 3D sensing, and secure identification, metasurfaces and meta-optical devices offer a credible alternative to conventional multi-lens assemblies,

enabled by planar form factors, wafer-level manufacturability, and the ability to integrate multiple optical functions within a single layer. This momentum is increasingly extending beyond consumer electronics into automotive perception, robotics, industrial inspection, and spectroscopy, where robustness and integration efficiency become decisive.

At the same time, commercialization faces well-defined challenges and risks. Fundamental trade-offs among efficiency, bandwidth, chromatic correction, polarization response, and angular tolerance remain persistent. The economics of scale depend on design-to-manufacturing repeatability, yield, and large-area uniformity, while supply-chain dependence on advanced lithography, etching, nanoimprint, and precision metrology can make capacity ramp and cost reduction inherently stage-based. Overall, the competitive battlefield is moving from isolated design breakthroughs to full-stack execution across design workflows, material platforms, process windows, packaging integration, and system qualification. Companies that first achieve stable volume production aligned with large-scale end-market orders will be best positioned to define the next mainstream architecture for sensing and imaging optics.

This report studies the global Optical Metamaterial demand, key companies, and key regions.

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

Highlights and key features of the study

Global Optical Metamaterial total market, 2021-2032, (USD Million)

Global Optical Metamaterial total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Optical Metamaterial total market, key domestic companies, and share, (USD Million)

Global Optical Metamaterial revenue by player, revenue and market share 2021-2026, (USD Million)

Global Optical Metamaterial total market by Type, CAGR, 2021-2032, (USD Million)

Global Optical Metamaterial total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Optical Metamaterial market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hangzhou Najing Technology Co., Ltd., Shenzhen MetalenX Technology Co., Ltd., Suzhou ShanHe Optoelectronic Technology Co., Ltd., Metalenz, Inc., NIL Technology A/S, Lumotive, Inc., MetaOptics Limited, SILIOS Technologies, STMicroelectronics N.V., Samsung Electronics Co., Ltd., 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 Optical Metamaterial market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Optical Metamaterial Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Optical Metamaterial Market, Segmentation by Type:

Metasurface Optical Element

Bulk Metamaterial Component

Meta-Optical Module

Others

Global Optical Metamaterial Market, Segmentation by Spectral Band:

Near Infrared

Visible

Mid Infrared

Others

Global Optical Metamaterial Market, Segmentation by Tunability Class:

Passive

Electrically Tunable

Thermally Tunable

Others

Global Optical Metamaterial Market, Segmentation by Material Platform:

Dielectric

Semiconductor

Metal

Others

Global Optical Metamaterial Market, Segmentation by Application:

Consumer Electronics Sensing and Imaging

Automotive Sensing and Imaging

Industrial and Scientific Sensing

Others

Companies Profiled:

Hangzhou Najing Technology Co., Ltd.

Shenzhen MetalenX Technology Co., Ltd.

Suzhou ShanHe Optoelectronic Technology Co., Ltd.

Metalenz, Inc.

NIL Technology A/S

Lumotive, Inc.

MetaOptics Limited

SILIOS Technologies

STMicroelectronics N.V.

Samsung Electronics Co., Ltd.

Meta Materials Inc.

Key Questions Answered

1. How big is the global Optical Metamaterial market?
2. What is the demand of the global Optical Metamaterial market?
3. What is the year over year growth of the global Optical Metamaterial market?
4. What is the total value of the global Optical Metamaterial market?
5. Who are the Major Players in the global Optical Metamaterial market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Optical Metamaterial Introduction
- 1.2 World Optical Metamaterial Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Optical Metamaterial Total Market by Region (by Headquarter Location)
 - 1.3.1 World Optical Metamaterial Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.3 China Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.4 Europe Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.5 Japan Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Optical Metamaterial Revenue (2021-2032)
 - 1.3.8 India Based Company Optical Metamaterial Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Optical Metamaterial Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD OPTICAL METAMATERIAL COMPANIES COMPETITIVE ANALYSIS

- 3.1 World Optical Metamaterial Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)

- 3.2.1 Global Optical Metamaterial Industry Rank of Major Players
- 3.2.2 Global Concentration Ratios (CR4) for Optical Metamaterial in 2025
- 3.2.3 Global Concentration Ratios (CR8) for Optical Metamaterial in 2025
- 3.3 Optical Metamaterial Company Evaluation Quadrant
- 3.4 Optical Metamaterial Market: Overall Company Footprint Analysis
 - 3.4.1 Optical Metamaterial Market: Region Footprint
 - 3.4.2 Optical Metamaterial Market: Company Product Type Footprint
 - 3.4.3 Optical Metamaterial Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: Optical Metamaterial Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Optical Metamaterial Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Optical Metamaterial Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Optical Metamaterial Consumption Value Comparison
 - 4.2.1 United States VS China: Optical Metamaterial Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Optical Metamaterial Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Optical Metamaterial Companies and Market Share, 2021-2026
 - 4.3.1 United States Based Optical Metamaterial Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies Optical Metamaterial Revenue, (2021-2026)
- 4.4 China Based Companies Optical Metamaterial Revenue and Market Share, 2021-2026
 - 4.4.1 China Based Optical Metamaterial Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies Optical Metamaterial Revenue, (2021-2026)

4.5 Rest of World Based Optical Metamaterial Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Optical Metamaterial Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Optical Metamaterial Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Optical Metamaterial Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Metasurface Optical Element

5.2.2 Bulk Metamaterial Component

5.2.3 Meta-Optical Module

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Optical Metamaterial Market Size by Type (2021-2026)

5.3.2 World Optical Metamaterial Market Size by Type (2027-2032)

5.3.3 World Optical Metamaterial Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY SPECTRAL BAND

6.1 World Optical Metamaterial Market Size Overview by Spectral Band: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Spectral Band

6.2.1 Near Infrared

6.2.2 Visible

6.2.3 Mid Infrared

6.2.4 Others

6.3 Market Segment by Spectral Band

6.3.1 World Optical Metamaterial Market Size by Spectral Band (2021-2026)

6.3.2 World Optical Metamaterial Market Size by Spectral Band (2027-2032)

6.3.3 World Optical Metamaterial Market Size Market Share by Spectral Band (2027-2032)

7 MARKET ANALYSIS BY TUNABILITY CLASS

7.1 World Optical Metamaterial Market Size Overview by Tunability Class: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Tunability Class

7.2.1 Passive

7.2.2 Electrically Tunable

7.2.3 Thermally Tunable

7.2.4 Others

7.3 Market Segment by Tunability Class

7.3.1 World Optical Metamaterial Market Size by Tunability Class (2021-2026)

7.3.2 World Optical Metamaterial Market Size by Tunability Class (2027-2032)

7.3.3 World Optical Metamaterial Market Size Market Share by Tunability Class (2027-2032)

8 MARKET ANALYSIS BY MATERIAL PLATFORM

8.1 World Optical Metamaterial Market Size Overview by Material Platform: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Material Platform

8.2.1 Dielectric

8.2.2 Semiconductor

8.2.3 Metal

8.2.4 Others

8.3 Market Segment by Material Platform

8.3.1 World Optical Metamaterial Market Size by Material Platform (2021-2026)

8.3.2 World Optical Metamaterial Market Size by Material Platform (2027-2032)

8.3.3 World Optical Metamaterial Market Size Market Share by Material Platform (2027-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Optical Metamaterial Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Consumer Electronics Sensing and Imaging

9.2.2 Automotive Sensing and Imaging

9.2.3 Industrial and Scientific Sensing

9.2.4 Others

9.3 Market Segment by Application

9.3.1 World Optical Metamaterial Market Size by Application (2021-2026)

9.3.2 World Optical Metamaterial Market Size by Application (2027-2032)

9.3.3 World Optical Metamaterial Market Size Market Share by Application (2021-2032)

10 COMPANY PROFILES

10.1 Hangzhou Najing Technology Co., Ltd.

10.1.1 Hangzhou Najing Technology Co., Ltd. Details

10.1.2 Hangzhou Najing Technology Co., Ltd. Major Business

10.1.3 Hangzhou Najing Technology Co., Ltd. Optical Metamaterial Product and Services

10.1.4 Hangzhou Najing Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

10.1.5 Hangzhou Najing Technology Co., Ltd. Recent Developments/Updates

10.1.6 Hangzhou Najing Technology Co., Ltd. Competitive Strengths & Weaknesses

10.2 Shenzhen MetalenX Technology Co., Ltd.

10.2.1 Shenzhen MetalenX Technology Co., Ltd. Details

10.2.2 Shenzhen MetalenX Technology Co., Ltd. Major Business

10.2.3 Shenzhen MetalenX Technology Co., Ltd. Optical Metamaterial Product and Services

10.2.4 Shenzhen MetalenX Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

10.2.5 Shenzhen MetalenX Technology Co., Ltd. Recent Developments/Updates

10.2.6 Shenzhen MetalenX Technology Co., Ltd. Competitive Strengths &

Weaknesses

10.3 Suzhou ShanHe Optoelectronic Technology Co., Ltd.

10.3.1 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Details

10.3.2 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Major Business

10.3.3 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Optical Metamaterial Product and Services

10.3.4 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

10.3.5 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Recent Developments/Updates

10.3.6 Suzhou ShanHe Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

10.4 Metalenz, Inc.

10.4.1 Metalenz, Inc. Details

10.4.2 Metalenz, Inc. Major Business

10.4.3 Metalenz, Inc. Optical Metamaterial Product and Services

10.4.4 Metalenz, Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

- 10.4.5 Metalenz, Inc. Recent Developments/Updates
- 10.4.6 Metalenz, Inc. Competitive Strengths & Weaknesses
- 10.5 NIL Technology A/S
 - 10.5.1 NIL Technology A/S Details
 - 10.5.2 NIL Technology A/S Major Business
 - 10.5.3 NIL Technology A/S Optical Metamaterial Product and Services
 - 10.5.4 NIL Technology A/S Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)
 - 10.5.5 NIL Technology A/S Recent Developments/Updates
 - 10.5.6 NIL Technology A/S Competitive Strengths & Weaknesses
- 10.6 Lumotive, Inc.
 - 10.6.1 Lumotive, Inc. Details
 - 10.6.2 Lumotive, Inc. Major Business
 - 10.6.3 Lumotive, Inc. Optical Metamaterial Product and Services
 - 10.6.4 Lumotive, Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Lumotive, Inc. Recent Developments/Updates
 - 10.6.6 Lumotive, Inc. Competitive Strengths & Weaknesses
- 10.7 MetaOptics Limited
 - 10.7.1 MetaOptics Limited Details
 - 10.7.2 MetaOptics Limited Major Business
 - 10.7.3 MetaOptics Limited Optical Metamaterial Product and Services
 - 10.7.4 MetaOptics Limited Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)
 - 10.7.5 MetaOptics Limited Recent Developments/Updates
 - 10.7.6 MetaOptics Limited Competitive Strengths & Weaknesses
- 10.8 SILIOS Technologies
 - 10.8.1 SILIOS Technologies Details
 - 10.8.2 SILIOS Technologies Major Business
 - 10.8.3 SILIOS Technologies Optical Metamaterial Product and Services
 - 10.8.4 SILIOS Technologies Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)
 - 10.8.5 SILIOS Technologies Recent Developments/Updates
 - 10.8.6 SILIOS Technologies Competitive Strengths & Weaknesses
- 10.9 STMicroelectronics N.V.
 - 10.9.1 STMicroelectronics N.V. Details
 - 10.9.2 STMicroelectronics N.V. Major Business
 - 10.9.3 STMicroelectronics N.V. Optical Metamaterial Product and Services
 - 10.9.4 STMicroelectronics N.V. Optical Metamaterial Revenue, Gross Margin and

Market Share (2021-2026)

10.9.5 STMicroelectronics N.V. Recent Developments/Updates

10.9.6 STMicroelectronics N.V. Competitive Strengths & Weaknesses

10.10 Samsung Electronics Co., Ltd.

10.10.1 Samsung Electronics Co., Ltd. Details

10.10.2 Samsung Electronics Co., Ltd. Major Business

10.10.3 Samsung Electronics Co., Ltd. Optical Metamaterial Product and Services

10.10.4 Samsung Electronics Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

10.10.5 Samsung Electronics Co., Ltd. Recent Developments/Updates

10.10.6 Samsung Electronics Co., Ltd. Competitive Strengths & Weaknesses

10.11 Meta Materials Inc.

10.11.1 Meta Materials Inc. Details

10.11.2 Meta Materials Inc. Major Business

10.11.3 Meta Materials Inc. Optical Metamaterial Product and Services

10.11.4 Meta Materials Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026)

10.11.5 Meta Materials Inc. Recent Developments/Updates

10.11.6 Meta Materials Inc. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Optical Metamaterial Industry Chain

11.2 Optical Metamaterial Upstream Analysis

11.3 Optical Metamaterial Midstream Analysis

11.4 Optical Metamaterial Downstream Analysis

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Optical Metamaterial Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Optical Metamaterial Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Optical Metamaterial Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Optical Metamaterial Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Optical Metamaterial Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Optical Metamaterial Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Optical Metamaterial Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Optical Metamaterial Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Optical Metamaterial Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Optical Metamaterial Players in 2025

Table 12. World Optical Metamaterial Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Optical Metamaterial Company Evaluation Quadrant

Table 14. Head Office of Key Optical Metamaterial Players

Table 15. Optical Metamaterial Market: Company Product Type Footprint

Table 16. Optical Metamaterial Market: Company Product Application Footprint

Table 17. Optical Metamaterial Mergers & Acquisitions Activity

Table 18. United States VS China Optical Metamaterial Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Optical Metamaterial Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Optical Metamaterial Companies, Headquarters (States, Country)

Table 21. United States Based Companies Optical Metamaterial Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Optical Metamaterial Revenue Market Share

(2021-2026)

Table 23. China Based Optical Metamaterial Companies, Headquarters (Province, Country)

Table 24. China Based Companies Optical Metamaterial Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Optical Metamaterial Revenue Market Share (2021-2026)

Table 26. Rest of World Based Optical Metamaterial Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Optical Metamaterial Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Optical Metamaterial Revenue Market Share (2021-2026)

Table 29. World Optical Metamaterial Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Optical Metamaterial Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Optical Metamaterial Market Size by Type (2027-2032) & (USD Million)

Table 32. World Optical Metamaterial Market Size by Spectral Band, (USD Million), 2021 & 2025 & 2032

Table 33. World Optical Metamaterial Market Size Value by Spectral Band (2021-2026) & (USD Million)

Table 34. World Optical Metamaterial Market Size by Spectral Band (2027-2032) & (USD Million)

Table 35. World Optical Metamaterial Market Size by Tunability Class, (USD Million), 2021 & 2025 & 2032

Table 36. World Optical Metamaterial Market Size Value by Tunability Class (2021-2026) & (USD Million)

Table 37. World Optical Metamaterial Market Size by Tunability Class (2027-2032) & (USD Million)

Table 38. World Optical Metamaterial Market Size by Material Platform, (USD Million), 2021 & 2025 & 2032

Table 39. World Optical Metamaterial Market Size Value by Material Platform (2021-2026) & (USD Million)

Table 40. World Optical Metamaterial Market Size by Material Platform (2027-2032) & (USD Million)

Table 41. World Optical Metamaterial Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 42. World Optical Metamaterial Market Size by Application (2021-2026) & (USD

Million)

Table 43. World Optical Metamaterial Market Size by Application (2027-2032) & (USD Million)

Table 44. Hangzhou Najing Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 45. Hangzhou Najing Technology Co., Ltd. Major Business

Table 46. Hangzhou Najing Technology Co., Ltd. Optical Metamaterial Product and Services

Table 47. Hangzhou Najing Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 48. Hangzhou Najing Technology Co., Ltd. Recent Developments/Updates

Table 49. Hangzhou Najing Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 50. Shenzhen MetalenX Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 51. Shenzhen MetalenX Technology Co., Ltd. Major Business

Table 52. Shenzhen MetalenX Technology Co., Ltd. Optical Metamaterial Product and Services

Table 53. Shenzhen MetalenX Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 54. Shenzhen MetalenX Technology Co., Ltd. Recent Developments/Updates

Table 55. Shenzhen MetalenX Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 56. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 57. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Major Business

Table 58. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Optical Metamaterial Product and Services

Table 59. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 60. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Recent Developments/Updates

Table 61. Suzhou ShanHe Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 62. Metalenz, Inc. Basic Information, Manufacturing Base and Competitors

Table 63. Metalenz, Inc. Major Business

Table 64. Metalenz, Inc. Optical Metamaterial Product and Services

Table 65. Metalenz, Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 66. Metalenz, Inc. Recent Developments/Updates

- Table 67. Metalenz, Inc. Competitive Strengths & Weaknesses
- Table 68. NIL Technology A/S Basic Information, Manufacturing Base and Competitors
- Table 69. NIL Technology A/S Major Business
- Table 70. NIL Technology A/S Optical Metamaterial Product and Services
- Table 71. NIL Technology A/S Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 72. NIL Technology A/S Recent Developments/Updates
- Table 73. NIL Technology A/S Competitive Strengths & Weaknesses
- Table 74. Lumotive, Inc. Basic Information, Manufacturing Base and Competitors
- Table 75. Lumotive, Inc. Major Business
- Table 76. Lumotive, Inc. Optical Metamaterial Product and Services
- Table 77. Lumotive, Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 78. Lumotive, Inc. Recent Developments/Updates
- Table 79. Lumotive, Inc. Competitive Strengths & Weaknesses
- Table 80. MetaOptics Limited Basic Information, Manufacturing Base and Competitors
- Table 81. MetaOptics Limited Major Business
- Table 82. MetaOptics Limited Optical Metamaterial Product and Services
- Table 83. MetaOptics Limited Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 84. MetaOptics Limited Recent Developments/Updates
- Table 85. MetaOptics Limited Competitive Strengths & Weaknesses
- Table 86. SILIOS Technologies Basic Information, Manufacturing Base and Competitors
- Table 87. SILIOS Technologies Major Business
- Table 88. SILIOS Technologies Optical Metamaterial Product and Services
- Table 89. SILIOS Technologies Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 90. SILIOS Technologies Recent Developments/Updates
- Table 91. SILIOS Technologies Competitive Strengths & Weaknesses
- Table 92. STMicroelectronics N.V. Basic Information, Manufacturing Base and Competitors
- Table 93. STMicroelectronics N.V. Major Business
- Table 94. STMicroelectronics N.V. Optical Metamaterial Product and Services
- Table 95. STMicroelectronics N.V. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 96. STMicroelectronics N.V. Recent Developments/Updates
- Table 97. STMicroelectronics N.V. Competitive Strengths & Weaknesses
- Table 98. Samsung Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

- Table 99. Samsung Electronics Co., Ltd. Major Business
- Table 100. Samsung Electronics Co., Ltd. Optical Metamaterial Product and Services
- Table 101. Samsung Electronics Co., Ltd. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 102. Samsung Electronics Co., Ltd. Recent Developments/Updates
- Table 103. Samsung Electronics Co., Ltd. Competitive Strengths & Weaknesses
- Table 104. Meta Materials Inc. Basic Information, Manufacturing Base and Competitors
- Table 105. Meta Materials Inc. Major Business
- Table 106. Meta Materials Inc. Optical Metamaterial Product and Services
- Table 107. Meta Materials Inc. Optical Metamaterial Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 108. Meta Materials Inc. Recent Developments/Updates
- Table 109. Meta Materials Inc. Competitive Strengths & Weaknesses
- Table 110. Global Key Players of Optical Metamaterial Upstream (Raw Materials)
- Table 111. Global Optical Metamaterial Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Optical Metamaterial Picture

Figure 2. World Optical Metamaterial Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Optical Metamaterial Total Revenue (2021-2032) & (USD Million)

Figure 4. World Optical Metamaterial Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Optical Metamaterial Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Optical Metamaterial Revenue (2021-2032) & (USD Million)

Figure 13. Optical Metamaterial Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 16. World Optical Metamaterial Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 18. China Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 23. India Optical Metamaterial Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Optical Metamaterial by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Optical Metamaterial Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Optical Metamaterial Markets in 2025

Figure 27. United States VS China: Optical Metamaterial Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Optical Metamaterial Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Optical Metamaterial Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Optical Metamaterial Market Size Market Share by Type in 2025

Figure 31. Metasurface Optical Element

Figure 32. Bulk Metamaterial Component

Figure 33. Meta-Optical Module

Figure 34. Others

Figure 35. World Optical Metamaterial Market Size Market Share by Type (2021-2032)

Figure 36. World Optical Metamaterial Market Size by Spectral Band, (USD Million), 2021 & 2025 & 2032

Figure 37. World Optical Metamaterial Market Size Market Share by Spectral Band in 2025

Figure 38. Near Infrared

Figure 39. Visible

Figure 40. Mid Infrared

Figure 41. Others

Figure 42. World Optical Metamaterial Market Size Market Share by Spectral Band (2021-2032)

Figure 43. World Optical Metamaterial Market Size by Tunability Class, (USD Million), 2021 & 2025 & 2032

Figure 44. World Optical Metamaterial Market Size Market Share by Tunability Class in 2025

Figure 45. Passive

Figure 46. Electrically Tunable

Figure 47. Thermally Tunable

Figure 48. Others

Figure 49. World Optical Metamaterial Market Size Market Share by Tunability Class (2021-2032)

Figure 50. World Optical Metamaterial Market Size by Material Platform, (USD Million), 2021 & 2025 & 2032

Figure 51. World Optical Metamaterial Market Size Market Share by Material Platform in 2025

Figure 52. Dielectric

Figure 53. Semiconductor

Figure 54. Metal

Figure 55. Others

Figure 56. World Optical Metamaterial Market Size Market Share by Material Platform (2021-2032)

Figure 57. World Optical Metamaterial Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Optical Metamaterial Market Size Market Share by Application in 2025

Figure 59. Consumer Electronics Sensing and Imaging

Figure 60. Automotive Sensing and Imaging

Figure 61. Industrial and Scientific Sensing

Figure 62. Others

Figure 63. World Optical Metamaterial Market Size Market Share by Application (2021-2032)

Figure 64. Optical Metamaterial Industrial Chain

Figure 65. Methodology

Figure 66. Research Process and Data Source

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