

Global Low-Iridium-Loading Oxygen Evolution Catalyst Market Growth 2026-2032

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Abstracts

The global Low-Iridium-Loading Oxygen Evolution Catalyst market size is predicted to grow from US\$ 42.06 million in 2025 to US\$ 355 million in 2032; it is expected to grow at a CAGR of 34.2% from 2026 to 2032.

Low-iridium loading oxygen evolution reaction (OER) catalysts are materials designed for the anode in proton exchange membrane (PEM) water electrolysis, utilizing minimal iridium content. These catalysts include supported iridium oxide, iridium-ruthenium mixed oxides, nanostructured iridium/iridium oxide, and other powder or coating precursors engineered with high surface area, conductive or acid-resistant supports, or thin-layer/single-layer structures to maximize iridium utilization. The estimated overall gross margin is approximately 43%.

The primary value of low-iridium OER catalysts lies not simply in replacing conventional iridium oxides, but in reducing iridium consumption per hydrogen production unit while maintaining stable acidic operation and high current density performance in PEM electrolyzers. Given the high cost and limited supply flexibility of iridium, anode OER catalysts are a key factor in cost reduction and scaling of PEM systems.

Currently, these catalysts are in the technical validation and early adoption stage. Buyers do not focus solely on unit price but evaluate iridium loading, activity, durability, electrode compatibility, and batch consistency. Low-iridium approaches include highly dispersed iridium oxides, iridium-ruthenium composites, supported iridium catalysts, and integrated designs with porous transport layers and electrode coatings. Competitive advantage is therefore determined by the combination of material system design, electrode fabrication, and customer validation capabilities.

Future market growth is driven by the deployment of PEM electrolyzers in large-scale green hydrogen, industrial hydrogen, and renewable energy absorption scenarios. In the short term, low-iridium catalysts will not fully replace high-iridium ones but are expected to gain adoption first in cost-sensitive projects where equipment manufacturers have verified materials. Over the long term, as electrolyzer manufacturers demand lower iridium consumption, suppliers with high activity, high stability, and scalable supply capabilities will be better positioned to enter the core supply chain.

LP Information, Inc. (LPI) ' newest research report, the "Low-Iridium-Loading Oxygen Evolution Catalyst Industry Forecast" looks at past sales and reviews total world Low-Iridium-Loading Oxygen Evolution Catalyst sales in 2025, providing a comprehensive analysis by region and market sector of projected Low-Iridium-Loading Oxygen Evolution Catalyst sales for 2026 through 2032. With Low-Iridium-Loading Oxygen Evolution Catalyst sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Low-Iridium-Loading Oxygen Evolution Catalyst industry.

This Insight Report provides a comprehensive analysis of the global Low-Iridium-Loading Oxygen Evolution Catalyst landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low-Iridium-Loading Oxygen Evolution Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-Iridium-Loading Oxygen Evolution Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Iridium-Loading Oxygen Evolution Catalyst and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low-Iridium-Loading Oxygen Evolution Catalyst.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-Iridium-Loading Oxygen Evolution Catalyst market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Supported Iridium Oxide

Unsupported Iridium Oxide

Iridium-Ruthenium Mixed Oxide

Metallic or Nanostructured Iridium

Other Low-Iridium Composites

Segmentation by Iridium Content:

Ultra-Low Iridium Content

Medium Iridium Content

High Iridium Content

Near-Pure Iridium Oxide

Other Iridium Content

Segmentation by Support System:

Conductive Oxide Support

Stable Oxide Support

Metal or Organic Nanostructured Support

Support-Free Structure

Other Support Systems

Segmentation by Performance Positioning:

Low Loading and Iridium Thrifiting

High Durability

High Mass Activity

Coating-Compatible

Other Performance Positioning

Segmentation by Application:

PEM Electrolyzer Stack Production

PEM MEA and CCM Manufacturing

Anode Electrode and PTE Coating

Catalyst Ink and Coating Development

Acidic OER R&D Testing

Other Oxygen Electrode Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Heraeus Precious Metals

Johnson Matthey

Tanaka Kikinzoku

BASF ECMS

Umicore

3M

Pajarito Powder

Furuya Metal

Ishifuku Metal Industry

Shanghai Tangfeng Energy

Ningbo Zhongke Cotrun

Jiping New Energy

Lopal

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Iridium-Loading Oxygen Evolution Catalyst market?

What factors are driving Low-Iridium-Loading Oxygen Evolution Catalyst market growth, globally and by region?

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

How do Low-Iridium-Loading Oxygen Evolution Catalyst market opportunities vary by end market size?

How does Low-Iridium-Loading Oxygen Evolution Catalyst break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Low-Iridium-Loading Oxygen Evolution Catalyst by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Low-Iridium-Loading Oxygen Evolution Catalyst by Country/Region, 2021, 2025 & 2032

2.2 Low-Iridium-Loading Oxygen Evolution Catalyst Segment by Type

- 2.2.1 Supported Iridium Oxide
- 2.2.2 Unsupported Iridium Oxide
- 2.2.3 Iridium-Ruthenium Mixed Oxide
- 2.2.4 Metallic or Nanostructured Iridium
- 2.2.5 Other Low-Iridium Composites
- 2.2.6 Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type
 - 2.2.6.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Type (2021-2026)

2.3 Low-Iridium-Loading Oxygen Evolution Catalyst Segment by Iridium Content

- 2.3.1 Ultra-Low Iridium Content
- 2.3.2 Medium Iridium Content
- 2.3.3 High Iridium Content
- 2.3.4 Near-Pure Iridium Oxide

2.3.5 Other Iridium Content

2.3.6 Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Iridium Content

2.3.6.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Iridium Content (2021-2026)

2.3.6.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue and Market Share by Iridium Content (2021-2026)

2.3.6.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Iridium Content (2021-2026)

2.4 Low-Iridium-Loading Oxygen Evolution Catalyst Segment by Support System

2.4.1 Conductive Oxide Support

2.4.2 Stable Oxide Support

2.4.3 Metal or Organic Nanostructured Support

2.4.4 Support-Free Structure

2.4.5 Other Support Systems

2.4.6 Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Support System

2.4.6.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Support System (2021-2026)

2.4.6.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue and Market Share by Support System (2021-2026)

2.4.6.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Support System (2021-2026)

2.5 Low-Iridium-Loading Oxygen Evolution Catalyst Segment by Performance Positioning

2.5.1 Low Loading and Iridium Thrifing

2.5.2 High Durability

2.5.3 High Mass Activity

2.5.4 Coating-Compatible

2.5.5 Other Performance Positioning

2.5.6 Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Performance Positioning

2.5.6.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Performance Positioning (2021-2026)

2.5.6.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue and Market Share by Performance Positioning (2021-2026)

2.5.6.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Performance Positioning (2021-2026)

2.6 Low-Iridium-Loading Oxygen Evolution Catalyst Segment by Application

2.6.1 PEM Electrolyzer Stack Production

2.6.2 PEM MEA and CCM Manufacturing

2.6.3 Anode Electrode and PTE Coating

2.6.4 Catalyst Ink and Coating Development

2.6.5 Acidic OER R&D Testing

2.6.6 Other Oxygen Electrode Applications

2.6.7 Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application

2.6.7.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Market Share by Application (2021-2026)

2.6.7.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Breakdown Data by Company

3.1.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales by Company (2021-2026)

3.1.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Company (2021-2026)

3.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue by Company (2021-2026)

3.2.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Company (2021-2026)

3.2.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Company (2021-2026)

3.3 Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Company

3.4 Key Manufacturers Low-Iridium-Loading Oxygen Evolution Catalyst Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Low-Iridium-Loading Oxygen Evolution Catalyst Product Location Distribution

3.4.2 Players Low-Iridium-Loading Oxygen Evolution Catalyst Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LOW-IRIDIUM-LOADING OXYGEN EVOLUTION

CATALYST BY GEOGRAPHIC REGION

4.1 World Historic Low-Iridium-Loading Oxygen Evolution Catalyst Market Size by Geographic Region (2021-2026)

4.1.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Low-Iridium-Loading Oxygen Evolution Catalyst Market Size by Country/Region (2021-2026)

4.2.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales by Country/Region (2021-2026)

4.2.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue by Country/Region (2021-2026)

4.3 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Growth

4.4 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Growth

4.5 Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales Growth

4.6 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales Growth

5 AMERICAS

5.1 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country

5.1.1 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country (2021-2026)

5.1.2 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country (2021-2026)

5.2 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026)

5.3 Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Region

6.1.1 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Region

(2021-2026)

6.1.2 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Region

(2021-2026)

6.2 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026)

6.3 APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application

(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Low-Iridium-Loading Oxygen Evolution Catalyst by Country

7.1.1 Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country

(2021-2026)

7.1.2 Europe Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country

(2021-2026)

7.2 Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026)

7.3 Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application

(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst by Country

8.1.1 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country (2021-2026)

8.1.2 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country (2021-2026)

8.2 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026)

8.3 Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Low-Iridium-Loading Oxygen Evolution Catalyst

10.3 Manufacturing Process Analysis of Low-Iridium-Loading Oxygen Evolution Catalyst

10.4 Industry Chain Structure of Low-Iridium-Loading Oxygen Evolution Catalyst

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Low-Iridium-Loading Oxygen Evolution Catalyst Distributors

11.3 Low-Iridium-Loading Oxygen Evolution Catalyst Customer

12 WORLD FORECAST REVIEW FOR LOW-IRIDIUM-LOADING OXYGEN EVOLUTION CATALYST BY GEOGRAPHIC REGION

12.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Market Size Forecast by Region

12.1.1 Global Low-Iridium-Loading Oxygen Evolution Catalyst Forecast by Region (2027-2032)

12.1.2 Global Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue Forecast by Region (2027-2032)

- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Low-Iridium-Loading Oxygen Evolution Catalyst Forecast by Type (2027-2032)
- 12.7 Global Low-Iridium-Loading Oxygen Evolution Catalyst Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Heraeus Precious Metals

- 13.1.1 Heraeus Precious Metals Company Information
- 13.1.2 Heraeus Precious Metals Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications
- 13.1.3 Heraeus Precious Metals Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Heraeus Precious Metals Main Business Overview
- 13.1.5 Heraeus Precious Metals Latest Developments

13.2 Johnson Matthey

- 13.2.1 Johnson Matthey Company Information
- 13.2.2 Johnson Matthey Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications
- 13.2.3 Johnson Matthey Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Johnson Matthey Main Business Overview
- 13.2.5 Johnson Matthey Latest Developments

13.3 Tanaka Kikinzoku

- 13.3.1 Tanaka Kikinzoku Company Information
- 13.3.2 Tanaka Kikinzoku Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications
- 13.3.3 Tanaka Kikinzoku Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Tanaka Kikinzoku Main Business Overview
- 13.3.5 Tanaka Kikinzoku Latest Developments

13.4 BASF ECMS

- 13.4.1 BASF ECMS Company Information
- 13.4.2 BASF ECMS Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.4.3 BASF ECMS Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 BASF ECMS Main Business Overview

13.4.5 BASF ECMS Latest Developments

13.5 Umicore

13.5.1 Umicore Company Information

13.5.2 Umicore Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.5.3 Umicore Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Umicore Main Business Overview

13.5.5 Umicore Latest Developments

13.6 3M

13.6.1 3M Company Information

13.6.2 3M Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.6.3 3M Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 3M Main Business Overview

13.6.5 3M Latest Developments

13.7 Pajarito Powder

13.7.1 Pajarito Powder Company Information

13.7.2 Pajarito Powder Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.7.3 Pajarito Powder Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Pajarito Powder Main Business Overview

13.7.5 Pajarito Powder Latest Developments

13.8 Furuya Metal

13.8.1 Furuya Metal Company Information

13.8.2 Furuya Metal Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.8.3 Furuya Metal Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Furuya Metal Main Business Overview

13.8.5 Furuya Metal Latest Developments

13.9 Ishifuku Metal Industry

13.9.1 Ishifuku Metal Industry Company Information

13.9.2 Ishifuku Metal Industry Low-Iridium-Loading Oxygen Evolution Catalyst Product

Portfolios and Specifications

13.9.3 Ishifuku Metal Industry Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Ishifuku Metal Industry Main Business Overview

13.9.5 Ishifuku Metal Industry Latest Developments

13.10 Shanghai Tangfeng Energy

13.10.1 Shanghai Tangfeng Energy Company Information

13.10.2 Shanghai Tangfeng Energy Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.10.3 Shanghai Tangfeng Energy Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Shanghai Tangfeng Energy Main Business Overview

13.10.5 Shanghai Tangfeng Energy Latest Developments

13.11 Ningbo Zhongke Cotrun

13.11.1 Ningbo Zhongke Cotrun Company Information

13.11.2 Ningbo Zhongke Cotrun Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.11.3 Ningbo Zhongke Cotrun Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Ningbo Zhongke Cotrun Main Business Overview

13.11.5 Ningbo Zhongke Cotrun Latest Developments

13.12 Jiping New Energy

13.12.1 Jiping New Energy Company Information

13.12.2 Jiping New Energy Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.12.3 Jiping New Energy Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Jiping New Energy Main Business Overview

13.12.5 Jiping New Energy Latest Developments

13.13 Lopal

13.13.1 Lopal Company Information

13.13.2 Lopal Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

13.13.3 Lopal Low-Iridium-Loading Oxygen Evolution Catalyst Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Lopal Main Business Overview

13.13.5 Lopal Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Low-Iridium-Loading Oxygen Evolution Catalyst Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Supported Iridium Oxide

Table 4. Major Players of Unsupported Iridium Oxide

Table 5. Major Players of Iridium-Ruthenium Mixed Oxide

Table 6. Major Players of Metallic or Nanostructured Iridium

Table 7. Major Players of Other Low-Iridium Composites

Table 8. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026) & (kg)

Table 9. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)

Table 10. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Type (2021-2026)

Table 12. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Type (2021-2026) & (US\$/kg)

Table 13. Major Players of Ultra-Low Iridium Content

Table 14. Major Players of Medium Iridium Content

Table 15. Major Players of High Iridium Content

Table 16. Major Players of Near-Pure Iridium Oxide

Table 17. Major Players of Other Iridium Content

Table 18. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Iridium Content (2021-2026) & (kg)

Table 19. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Iridium Content (2021-2026)

Table 20. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Iridium Content (2021-2026) & (\$ million)

Table 21. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Iridium Content (2021-2026)

Table 22. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Iridium Content (2021-2026) & (US\$/kg)

Table 23. Major Players of Conductive Oxide Support

Table 24. Major Players of Stable Oxide Support
Table 25. Major Players of Metal or Organic Nanostructured Support
Table 26. Major Players of Support-Free Structure
Table 27. Major Players of Other Support Systems
Table 28. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Support System (2021-2026) & (kg)
Table 29. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Support System (2021-2026)
Table 30. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Support System (2021-2026) & (\$ million)
Table 31. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Support System (2021-2026)
Table 32. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Support System (2021-2026) & (US\$/kg)
Table 33. Major Players of Low Loading and Iridium Thrifting
Table 34. Major Players of High Durability
Table 35. Major Players of High Mass Activity
Table 36. Major Players of Coating-Compatible
Table 37. Major Players of Other Performance Positioning
Table 38. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Performance Positioning (2021-2026) & (kg)
Table 39. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Performance Positioning (2021-2026)
Table 40. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Performance Positioning (2021-2026) & (\$ million)
Table 41. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Performance Positioning (2021-2026)
Table 42. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Performance Positioning (2021-2026) & (US\$/kg)
Table 43. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale by Application (2021-2026) & (kg)
Table 44. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Market Share by Application (2021-2026)
Table 45. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Application (2021-2026) & (\$ million)
Table 46. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Application (2021-2026)
Table 47. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Application (2021-2026) & (US\$/kg)

Table 48. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Company (2021-2026) & (kg)

Table 49. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Company (2021-2026)

Table 50. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Company (2021-2026) & (\$ millions)

Table 51. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Company (2021-2026)

Table 52. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Price by Company (2021-2026) & (US\$/kg)

Table 53. Key Manufacturers Low-Iridium-Loading Oxygen Evolution Catalyst Producing Area Distribution and Sales Area

Table 54. Players Low-Iridium-Loading Oxygen Evolution Catalyst Products Offered

Table 55. Low-Iridium-Loading Oxygen Evolution Catalyst Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 56. New Products and Potential Entrants

Table 57. Market M&A Activity & Strategy

Table 58. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Geographic Region (2021-2026) & (kg)

Table 59. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share Geographic Region (2021-2026)

Table 60. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 61. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Geographic Region (2021-2026)

Table 62. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country/Region (2021-2026) & (kg)

Table 63. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country/Region (2021-2026)

Table 64. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country/Region (2021-2026) & (\$ millions)

Table 65. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Country/Region (2021-2026)

Table 66. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country (2021-2026) & (kg)

Table 67. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country (2021-2026)

Table 68. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country (2021-2026) & (\$ millions)

Table 69. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026) & (kg)

Table 70. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026) & (kg)

Table 71. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Region (2021-2026) & (kg)

Table 72. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Region (2021-2026)

Table 73. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Region (2021-2026) & (\$ millions)

Table 74. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026) & (kg)

Table 75. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026) & (kg)

Table 76. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country (2021-2026) & (kg)

Table 77. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Country (2021-2026) & (\$ millions)

Table 78. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026) & (kg)

Table 79. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026) & (kg)

Table 80. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Country (2021-2026) & (kg)

Table 81. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Country (2021-2026)

Table 82. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Type (2021-2026) & (kg)

Table 83. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Application (2021-2026) & (kg)

Table 84. Key Market Drivers & Growth Opportunities of Low-Iridium-Loading Oxygen Evolution Catalyst

Table 85. Key Market Challenges & Risks of Low-Iridium-Loading Oxygen Evolution Catalyst

Table 86. Key Industry Trends of Low-Iridium-Loading Oxygen Evolution Catalyst

Table 87. Low-Iridium-Loading Oxygen Evolution Catalyst Raw Material

Table 88. Key Suppliers of Raw Materials

Table 89. Low-Iridium-Loading Oxygen Evolution Catalyst Distributors List

Table 90. Low-Iridium-Loading Oxygen Evolution Catalyst Customer List

Table 91. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Region (2027-2032) & (kg)

Table 92. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 93. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Country (2027-2032) & (kg)

Table 94. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Region (2027-2032) & (kg)

Table 96. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 97. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Country (2027-2032) & (kg)

Table 98. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 99. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Country (2027-2032) & (kg)

Table 100. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 101. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Type (2027-2032) & (kg)

Table 102. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 103. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Forecast by Application (2027-2032) & (kg)

Table 104. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 105. Heraeus Precious Metals Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 106. Heraeus Precious Metals Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 107. Heraeus Precious Metals Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 108. Heraeus Precious Metals Main Business

Table 109. Heraeus Precious Metals Latest Developments

Table 110. Johnson Matthey Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 111. Johnson Matthey Low-Iridium-Loading Oxygen Evolution Catalyst Product

Portfolios and Specifications

Table 112. Johnson Matthey Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 113. Johnson Matthey Main Business

Table 114. Johnson Matthey Latest Developments

Table 115. Tanaka Kikinzoku Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 116. Tanaka Kikinzoku Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 117. Tanaka Kikinzoku Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 118. Tanaka Kikinzoku Main Business

Table 119. Tanaka Kikinzoku Latest Developments

Table 120. BASF ECMS Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 121. BASF ECMS Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 122. BASF ECMS Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 123. BASF ECMS Main Business

Table 124. BASF ECMS Latest Developments

Table 125. Umicore Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 126. Umicore Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 127. Umicore Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 128. Umicore Main Business

Table 129. Umicore Latest Developments

Table 130. 3M Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 131. 3M Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 132. 3M Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 133. 3M Main Business

Table 134. 3M Latest Developments

Table 135. Pajarito Powder Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 136. Pajarito Powder Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 137. Pajarito Powder Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 138. Pajarito Powder Main Business

Table 139. Pajarito Powder Latest Developments

Table 140. Furuya Metal Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 141. Furuya Metal Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 142. Furuya Metal Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 143. Furuya Metal Main Business

Table 144. Furuya Metal Latest Developments

Table 145. Ishifuku Metal Industry Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 146. Ishifuku Metal Industry Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 147. Ishifuku Metal Industry Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 148. Ishifuku Metal Industry Main Business

Table 149. Ishifuku Metal Industry Latest Developments

Table 150. Shanghai Tangfeng Energy Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 151. Shanghai Tangfeng Energy Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 152. Shanghai Tangfeng Energy Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 153. Shanghai Tangfeng Energy Main Business

Table 154. Shanghai Tangfeng Energy Latest Developments

Table 155. Ningbo Zhongke Cotrun Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 156. Ningbo Zhongke Cotrun Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 157. Ningbo Zhongke Cotrun Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 158. Ningbo Zhongke Cotrun Main Business

Table 159. Ningbo Zhongke Cotrun Latest Developments

Table 160. Jiping New Energy Basic Information, Low-Iridium-Loading Oxygen

Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 161. Jiping New Energy Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 162. Jiping New Energy Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 163. Jiping New Energy Main Business

Table 164. Jiping New Energy Latest Developments

Table 165. Lopal Basic Information, Low-Iridium-Loading Oxygen Evolution Catalyst Manufacturing Base, Sales Area and Its Competitors

Table 166. Lopal Low-Iridium-Loading Oxygen Evolution Catalyst Product Portfolios and Specifications

Table 167. Lopal Low-Iridium-Loading Oxygen Evolution Catalyst Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 168. Lopal Main Business

Table 169. Lopal Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Low-Iridium-Loading Oxygen Evolution Catalyst
- Figure 2. Low-Iridium-Loading Oxygen Evolution Catalyst Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country/Region (2025)
- Figure 10. Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Supported Iridium Oxide
- Figure 12. Product Picture of Unsupported Iridium Oxide
- Figure 13. Product Picture of Iridium-Ruthenium Mixed Oxide
- Figure 14. Product Picture of Metallic or Nanostructured Iridium
- Figure 15. Product Picture of Other Low-Iridium Composites
- Figure 16. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type in 2026
- Figure 17. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Ultra-Low Iridium Content
- Figure 19. Product Picture of Medium Iridium Content
- Figure 20. Product Picture of High Iridium Content
- Figure 21. Product Picture of Near-Pure Iridium Oxide
- Figure 22. Product Picture of Other Iridium Content
- Figure 23. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Iridium Content in 2026
- Figure 24. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Iridium Content (2021-2026)
- Figure 25. Product Picture of Conductive Oxide Support
- Figure 26. Product Picture of Stable Oxide Support

- Figure 27. Product Picture of Metal or Organic Nanostructured Support
- Figure 28. Product Picture of Support-Free Structure
- Figure 29. Product Picture of Other Support Systems
- Figure 30. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Support System in 2026
- Figure 31. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Support System (2021-2026)
- Figure 32. Product Picture of Low Loading and Iridium Thrifiting
- Figure 33. Product Picture of High Durability
- Figure 34. Product Picture of High Mass Activity
- Figure 35. Product Picture of Coating-Compatible
- Figure 36. Product Picture of Other Performance Positioning
- Figure 37. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Performance Positioning in 2026
- Figure 38. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Performance Positioning (2021-2026)
- Figure 39. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in PEM Electrolyzer Stack Production
- Figure 40. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: PEM Electrolyzer Stack Production (2021-2026) & (kg)
- Figure 41. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in PEM MEA and CCM Manufacturing
- Figure 42. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: PEM MEA and CCM Manufacturing (2021-2026) & (kg)
- Figure 43. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in Anode Electrode and PTE Coating
- Figure 44. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: Anode Electrode and PTE Coating (2021-2026) & (kg)
- Figure 45. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in Catalyst Ink and Coating Development
- Figure 46. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: Catalyst Ink and Coating Development (2021-2026) & (kg)
- Figure 47. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in Acidic OER R&D Testing
- Figure 48. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: Acidic OER R&D Testing (2021-2026) & (kg)
- Figure 49. Low-Iridium-Loading Oxygen Evolution Catalyst Consumed in Other Oxygen Electrode Applications
- Figure 50. Global Low-Iridium-Loading Oxygen Evolution Catalyst Market: Other

Oxygen Electrode Applications (2021-2026) & (kg)

Figure 51. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sale Market Share by Application (2025)

Figure 52. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Application in 2025

Figure 53. Low-Iridium-Loading Oxygen Evolution Catalyst Sales by Company in 2025 (kg)

Figure 54. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Company in 2025

Figure 55. Low-Iridium-Loading Oxygen Evolution Catalyst Revenue by Company in 2025 (\$ millions)

Figure 56. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Company in 2025

Figure 57. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Geographic Region (2021-2026)

Figure 58. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Geographic Region in 2025

Figure 59. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales 2021-2026 (kg)

Figure 60. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Revenue 2021-2026 (\$ millions)

Figure 61. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales 2021-2026 (kg)

Figure 62. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Revenue 2021-2026 (\$ millions)

Figure 63. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales 2021-2026 (kg)

Figure 64. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Revenue 2021-2026 (\$ millions)

Figure 65. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales 2021-2026 (kg)

Figure 66. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Revenue 2021-2026 (\$ millions)

Figure 67. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country in 2025

Figure 68. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Country (2021-2026)

Figure 69. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)

Figure 70. Americas Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market

Share by Application (2021-2026)

Figure 71. United States Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 72. Canada Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 73. Mexico Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 74. Brazil Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 75. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Region in 2025

Figure 76. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Region (2021-2026)

Figure 77. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)

Figure 78. APAC Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Application (2021-2026)

Figure 79. China Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 80. Japan Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Korea Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 82. Southeast Asia Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 83. India Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 84. Australia Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 85. China Taiwan Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 86. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country in 2025

Figure 87. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share by Country (2021-2026)

Figure 88. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)

Figure 89. Europe Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Application (2021-2026)

Figure 90. Germany Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 91. France Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 92. UK Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 93. Italy Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 94. Russia Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 95. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Country (2021-2026)

Figure 96. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Type (2021-2026)

Figure 97. Middle East & Africa Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share by Application (2021-2026)

Figure 98. Egypt Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 99. South Africa Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 100. Israel Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 101. Turkey Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 102. GCC Countries Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Growth 2021-2026 (\$ millions)

Figure 103. Manufacturing Cost Structure Analysis of Low-Iridium-Loading Oxygen Evolution Catalyst in 2026

Figure 104. Manufacturing Process Analysis of Low-Iridium-Loading Oxygen Evolution Catalyst

Figure 105. Industry Chain Structure of Low-Iridium-Loading Oxygen Evolution Catalyst

Figure 106. Channels of Distribution

Figure 107. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Forecast by Region (2027-2032)

Figure 108. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share Forecast by Region (2027-2032)

Figure 109. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share Forecast by Type (2027-2032)

Figure 110. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market

Share Forecast by Type (2027-2032)

Figure 111. Global Low-Iridium-Loading Oxygen Evolution Catalyst Sales Market Share Forecast by Application (2027-2032)

Figure 112. Global Low-Iridium-Loading Oxygen Evolution Catalyst Revenue Market Share Forecast by Application (2027-2032)

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