+357 96 030922
info@marketpublishers.com

Global Zinc-Air Battery Catalysts Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G0AFC2A03A63EN.html
Date: September 2026
Pages: 73
Price: US$ 3,480.00 (Single User License)
ID: G0AFC2A03A63EN

Abstracts

According to our (Global Info Research) latest study, the global Zinc-Air Battery Catalysts market size was valued at US$ 9.05 million in 2025 and is forecast to a readjusted size of US$ 18.87 million by 2032 with a CAGR of 10.8% during review period.

Zinc-Air Battery Catalysts are functional catalytic materials used in the air electrode of zinc-air batteries to accelerate oxygen electrochemical reactions and improve discharge performance, energy efficiency, power capability, and operating durability. In primary zinc-air batteries, catalysts mainly promote the oxygen reduction reaction (ORR), while electrically rechargeable zinc-air systems require oxygen evolution reaction (OER) activity or bifunctional ORR/OER catalytic capability during repeated charge-discharge operation. Commercial and emerging material routes include manganese-based catalysts, silver-based catalysts, platinum-group-metal-based catalysts, metal-nitrogen-carbon catalysts, other non-precious transition-metal-based catalysts, and metal-free carbon catalysts. Products are supplied mainly as dry catalyst powders, supported catalysts, dispersions, inks, slurries, and other formulations for air-electrode fabrication. This study focuses on catalyst materials supplied for zinc-air battery applications, covering primary batteries for hearing aids, medical and specialty electronics as well as rechargeable systems for stationary energy storage, backup power, telecom and other emerging applications. The market scope is defined by the commercial value of the catalytic material itself rather than the value of the complete air cathode or battery system.

Key Findings

+357 96 030922
info@marketpublishers.com

The global weighted average selling price of zinc-air battery catalysts was approximately US$35–50/kg in 2025.

Primary zinc-air batteries remained the main demand source, while rechargeable zinc-air batteries represented the key growth direction.

Manganese-based catalysts remained the largest product type.

Hearing aids and medical devices remained the largest downstream application.

Stationary energy storage was the fastest-growing application.

Non-precious-metal ORR catalysts and bifunctional ORR/OER catalysts continued to gain importance.

The United States, Japan, and China remained the major technology and supply regions.

Market Trends

The technology direction is shifting from conventional low-cost manganese-based ORR catalysts toward higher-activity non-precious-metal formulations and rechargeable-battery-oriented ORR/OER systems. For primary zinc-air cells, catalyst development remains focused on cost, durability, oxygen transport and consistency in mass production. For rechargeable systems, the technical requirement is more demanding because the air electrode must sustain reversible oxygen chemistry over repeated cycling, making bifunctional activity and electrochemical durability increasingly important. The U.S. Department of Energy identifies cathode-material optimization, new material discovery, demonstration projects and manufacturing ecosystem development among the important innovation areas for zinc battery commercialization.

Another important trend is the transition from catalyst powder sales toward application-specific material engineering. Catalyst suppliers increasingly combine active-material synthesis with carbon-support selection, dispersion, ink formulation, coating and electrode optimization. This raises the value contribution of formulation know-how and scale-up capability relative to the underlying raw material alone. Commercial suppliers are already positioning catalyst libraries, customized supports and electrode processing

+357 96 030922
info@marketpublishers.com

as integrated development capabilities.

Market Dynamics

Drivers

The mature installed base of zinc-air hearing-aid batteries provides a relatively stable demand foundation for conventional catalysts, while long-duration energy storage creates the most important new demand pathway. Primary zinc-air button cells remain widely used in hearing aids, and the U.S. Department of Energy continues to identify zinc-air among zinc battery chemistries being developed for stationary and long-duration storage. Increasing emphasis on non-flammable aqueous battery chemistries, resource availability and reduced reliance on scarce precious metals also supports catalyst innovation.

Restraints

The main restraint is the different commercialization profile of the two major downstream markets. Conventional primary zinc-air batteries are technologically mature but face structural competition from rechargeable lithium-ion hearing-aid solutions; VARTA currently supplies both zinc-air and rechargeable lithium-ion solutions for hearing-aid applications. Rechargeable zinc-air batteries, by contrast, offer a larger long-term catalyst opportunity but still face cycle-life, reversible air-electrode efficiency, material stability and system-scale manufacturing challenges. The U.S. Department of Energy assessed the broader zinc-battery field at an intermediate stage of technology and manufacturing readiness, highlighting the remaining commercialization gap.

Opportunities

The strongest opportunity is the substitution of precious-metal catalysts with scalable non-precious-metal alternatives. Commercial rare-metal-free ORR technology is already being designed for metal-air batteries, and one current commercial platform reports mass-production suitability without special chemical processing and targets substantially lower catalyst cost than platinum-based alternatives. A second opportunity lies in the commercialization of rechargeable zinc-air systems for stationary storage, where catalyst suppliers can capture value not only from active materials but also from catalyst-support design, ink formulation, coating and optimized air-electrode integration.

+357 96 030922
info@marketpublishers.com

A zinc-air long-duration storage collaboration announced in 2024 specifically targeted a non-precious-metal catalyst-coated air electrode to reduce cathode material cost.

Challenges

Catalyst performance cannot be evaluated by initial ORR or OER activity alone. Commercial success increasingly depends on durability under alkaline conditions, resistance to catalyst degradation, repeatable dispersion and coating quality, electrode-level mass transport, scale-up yield and customer qualification. Rechargeable systems add the difficulty of balancing ORR and OER performance in either a bifunctional catalyst or a coordinated multi-catalyst architecture. At the industry level, limited standardized testing protocols and relatively immature manufacturing ecosystems for emerging zinc storage technologies can slow the translation of laboratory catalyst performance into bankable commercial battery systems.

Industry Chain Analysis

The upstream chain includes manganese compounds, silver and platinum-group-metal precursors, iron, cobalt and nickel compounds, carbon supports, heteroatom precursors, solvents, binders and other formulation materials. Midstream activities comprise catalyst synthesis, active-site engineering, loading onto carbon or oxide supports, particle and surface control, dispersion, ink or slurry formulation, quality testing and scale-up manufacturing. Downstream customers include air-electrode manufacturers and zinc-air battery producers serving hearing aids, medical and specialty electronics, stationary storage, backup power and telecom applications. The catalyst industry therefore sits between commodity or specialty chemical inputs and highly application-specific electrochemical electrode manufacturing.

Value Chain Analysis

Value creation is moving away from simple raw-material conversion toward engineered catalytic performance and electrode compatibility. Conventional manganese-based materials compete heavily on consistency, cost and volume manufacturing, while advanced non-precious-metal and bifunctional catalysts derive a larger share of value from active-site design, proprietary synthesis, support selection, dispersion technology and application validation. Suppliers able to move from laboratory synthesis to pilot and commercial-scale production have a stronger competitive position because battery

+357 96 030922
info@marketpublishers.com

developers require reproducible electrochemical performance across progressively larger batches. Nexceris explicitly positions its electrochemical development capability around material synthesis, component development and scale-up, while AZUL Energy combines catalyst development with support selection, dispersion and sheet-fabrication know-how.

Segment Insights

By primary active material, manganese-based catalysts remain the largest segment because of their established position in conventional zinc-air air electrodes and favorable cost structure. Silver-based and platinum-group-metal-based catalysts occupy specialized higher-cost applications, while metal-nitrogen-carbon, other non-precious transition-metal-based and metal-free carbon catalysts are strategically important development directions. By catalytic function, ORR catalysts dominate current commercial consumption because primary zinc-air batteries represent the largest installed demand base. Bifunctional ORR/OER catalysts have a smaller current commercial base but higher strategic importance in electrically rechargeable zinc-air systems.

By battery type, primary zinc-air batteries continue to account for the majority of catalyst demand, while rechargeable zinc-air batteries are expected to contribute a rising share of incremental demand. By product form, dry catalyst powders remain the basic commercial format, but dispersions, inks and slurries are gaining importance as suppliers move closer to air-electrode processing. Application-specific formulation capability can also command a higher value contribution than undifferentiated catalyst powder.

Downstream Market Opportunities

Hearing aids and medical devices remain the core established downstream market and provide recurring replacement demand for primary zinc-air cells. However, the opportunity is primarily stable-volume rather than disruptive growth because rechargeable lithium-ion hearing-aid technologies are increasingly available alongside zinc-air products. Stationary energy storage offers a fundamentally different growth profile. Zinc-air technologies are being evaluated for microgrids, renewable-energy integration, behind-the-meter storage and long-duration discharge, creating potential demand for higher-value non-precious-metal and bifunctional catalysts if project deployment scales.

+357 96 030922
info@marketpublishers.com

Regional Insights

North America is an important development and scale-up region, supported by electrochemical materials engineering, pilot manufacturing capabilities and zinc-air long-duration storage development. The region is particularly relevant for custom catalyst development and the transition from laboratory materials to larger production batches.

Japan has emerged as an important commercialization center for advanced rare-metal-free ORR catalysts, with commercial products explicitly targeting metal-air battery applications and moving from customized project supply toward standardized availability. China has a broader manufacturing base in manganese materials, battery materials and air-electrode catalyst production, giving it potential cost and scale advantages as rechargeable zinc-air commercialization expands. Europe remains an important demand and battery-technology region, particularly in hearing-aid zinc-air cells and advanced electrochemical materials, although the verified specialized zinc-air catalyst supplier base is currently less concentrated.

Competitive Landscape Analysis

The competitive landscape remains fragmented and technically differentiated rather than dominated by a large number of scaled dedicated zinc-air catalyst manufacturers. North America is characterized by strong material scale-up and contract-development capabilities, Japan by specialized high-performance non-precious-metal catalyst commercialization, and China by its broader manganese and battery-material manufacturing foundation. This creates competition between established low-cost catalyst chemistry and emerging proprietary electrocatalyst platforms rather than a conventional commodity-material market.

Entry barriers are increasingly defined by repeatable electrochemical performance, scale-up know-how, customer-specific formulation, air-electrode integration and manufacturing quality control. As rechargeable zinc-air applications develop, regional competition is expected to shift toward companies and supply chains capable of combining catalyst performance with scalable electrode manufacturing. Given the still-specialized supplier structure and limited disclosure of zinc-air-specific catalyst revenue, the market is better characterized by technology positioning and manufacturing capability than by precise public market-share rankings.

+357 96 030922
info@marketpublishers.com

Report Scope

This report is a detailed and comprehensive analysis for global Zinc-Air Battery Catalysts market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Zinc-Air Battery Catalysts market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Zinc-Air Battery Catalysts market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Zinc-Air Battery Catalysts market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Zinc-Air Battery Catalysts market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Zinc-Air Battery Catalysts

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

+357 96 030922
info@marketpublishers.com

This report profiles key players in the global Zinc-Air Battery Catalysts market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nexceris, LLC, Hunan Yuanda New Materials Co., Ltd., AZUL Energy Inc., Cerpotech AS, etc.

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

Zinc-Air Battery Catalysts market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

ORR Catalysts

OER Catalysts

Bifunctional ORR/OER Catalysts

Others

Market segment by Primary Active Material

Manganese Based Catalysts

Silver Based Catalysts

Platinum Group Metal Based Catalysts

+357 96 030922
info@marketpublishers.com

Metal Nitrogen Carbon Catalysts

Other Non Precious Transition Metal Based Catalysts

Metal Free Carbon Catalysts

Others

Market segment by Product Form

Dry Catalyst Powders

Catalyst Dispersions and Inks

Catalyst Pastes and Slurries

Others

Market segment by Application

Hearing Aids and Medical Devices

Consumer and Specialty Electronics

Stationary Energy Storage

Backup Power and Telecom

Research and Demonstration

Others

Major players covered

Nexceris, LLC

+357 96 030922
info@marketpublishers.com

Hunan Yuanda New Materials Co., Ltd.

AZUL Energy Inc.

Cerpotech AS

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Zinc-Air Battery Catalysts product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Zinc-Air Battery Catalysts, with price, sales quantity, revenue, and global market share of Zinc-Air Battery Catalysts from 2021 to 2026.
Chapter 3, the Zinc-Air Battery Catalysts competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Zinc-Air Battery Catalysts breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

+357 96 030922
info@marketpublishers.com

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Zinc-Air Battery Catalysts market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of Zinc-Air Battery Catalysts.
Chapter 14 and 15, to describe Zinc-Air Battery Catalysts sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Zinc-Air Battery Catalysts Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 ORR Catalysts
  1.3.3 OER Catalysts
  1.3.4 Bifunctional ORR/OER Catalysts
  1.3.5 Others
1.4 Market Analysis by Primary Active Material
  1.4.1 Overview: Global Zinc-Air Battery Catalysts Consumption Value by Primary Active Material: 2021 Versus 2025 Versus 2032
  1.4.2 Manganese Based Catalysts
  1.4.3 Silver Based Catalysts
  1.4.4 Platinum Group Metal Based Catalysts
  1.4.5 Metal Nitrogen Carbon Catalysts
  1.4.6 Other Non Precious Transition Metal Based Catalysts
  1.4.7 Metal Free Carbon Catalysts
  1.4.8 Others
1.5 Market Analysis by Product Form
  1.5.1 Overview: Global Zinc-Air Battery Catalysts Consumption Value by Product Form: 2021 Versus 2025 Versus 2032
  1.5.2 Dry Catalyst Powders
  1.5.3 Catalyst Dispersions and Inks
  1.5.4 Catalyst Pastes and Slurries
  1.5.5 Others
1.6 Market Analysis by Application
  1.6.1 Overview: Global Zinc-Air Battery Catalysts Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Hearing Aids and Medical Devices
  1.6.3 Consumer and Specialty Electronics
  1.6.4 Stationary Energy Storage
  1.6.5 Backup Power and Telecom
  1.6.6 Research and Demonstration
  1.6.7 Others

+357 96 030922
info@marketpublishers.com

1.7 Global Zinc-Air Battery Catalysts Market Size & Forecast
1.7.1 Global Zinc-Air Battery Catalysts Consumption Value (2021 & 2025 & 2032)
1.7.2 Global Zinc-Air Battery Catalysts Sales Quantity (2021-2032)
1.7.3 Global Zinc-Air Battery Catalysts Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nexceris, LLC
2.1.1 Nexceris, LLC Details
2.1.2 Nexceris, LLC Major Business
2.1.3 Nexceris, LLC Zinc-Air Battery Catalysts Product and Services
2.1.4 Nexceris, LLC Zinc-Air Battery Catalysts Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Nexceris, LLC Recent Developments/Updates
2.2 Hunan Yuanda New Materials Co., Ltd.
2.2.1 Hunan Yuanda New Materials Co., Ltd. Details
2.2.2 Hunan Yuanda New Materials Co., Ltd. Major Business
2.2.3 Hunan Yuanda New Materials Co., Ltd. Zinc-Air Battery Catalysts Product and Services
2.2.4 Hunan Yuanda New Materials Co., Ltd. Zinc-Air Battery Catalysts Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Hunan Yuanda New Materials Co., Ltd. Recent Developments/Updates
2.3 AZUL Energy Inc.
2.3.1 AZUL Energy Inc. Details
2.3.2 AZUL Energy Inc. Major Business
2.3.3 AZUL Energy Inc. Zinc-Air Battery Catalysts Product and Services
2.3.4 AZUL Energy Inc. Zinc-Air Battery Catalysts Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 AZUL Energy Inc. Recent Developments/Updates
2.4 Cerpotech AS
2.4.1 Cerpotech AS Details
2.4.2 Cerpotech AS Major Business
2.4.3 Cerpotech AS Zinc-Air Battery Catalysts Product and Services
2.4.4 Cerpotech AS Zinc-Air Battery Catalysts Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Cerpotech AS Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ZINC-AIR BATTERY CATALYSTS BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

3.1 Global Zinc-Air Battery Catalysts Sales Quantity by Manufacturer (2021-2026)
3.2 Global Zinc-Air Battery Catalysts Revenue by Manufacturer (2021-2026)
3.3 Global Zinc-Air Battery Catalysts Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
  3.4.1 Producer Shipments of Zinc-Air Battery Catalysts by Manufacturer Revenue ($MM) and Market Share (%): 2025
  3.4.2 Top 3 Zinc-Air Battery Catalysts Manufacturer Market Share in 2025
  3.4.3 Top 6 Zinc-Air Battery Catalysts Manufacturer Market Share in 2025
3.5 Zinc-Air Battery Catalysts Market: Overall Company Footprint Analysis
  3.5.1 Zinc-Air Battery Catalysts Market: Region Footprint
  3.5.2 Zinc-Air Battery Catalysts Market: Company Product Type Footprint
  3.5.3 Zinc-Air Battery Catalysts Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Zinc-Air Battery Catalysts Market Size by Region
  4.1.1 Global Zinc-Air Battery Catalysts Sales Quantity by Region (2021-2032)
  4.1.2 Global Zinc-Air Battery Catalysts Consumption Value by Region (2021-2032)
  4.1.3 Global Zinc-Air Battery Catalysts Average Price by Region (2021-2032)
4.2 North America Zinc-Air Battery Catalysts Consumption Value (2021-2032)
4.3 Europe Zinc-Air Battery Catalysts Consumption Value (2021-2032)
4.4 Asia-Pacific Zinc-Air Battery Catalysts Consumption Value (2021-2032)
4.5 South America Zinc-Air Battery Catalysts Consumption Value (2021-2032)
4.6 Middle East & Africa Zinc-Air Battery Catalysts Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
5.2 Global Zinc-Air Battery Catalysts Consumption Value by Type (2021-2032)
5.3 Global Zinc-Air Battery Catalysts Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
6.2 Global Zinc-Air Battery Catalysts Consumption Value by Application (2021-2032)
6.3 Global Zinc-Air Battery Catalysts Average Price by Application (2021-2032)

+357 96 030922
info@marketpublishers.com

7 NORTH AMERICA

7.1 North America Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
7.2 North America Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
7.3 North America Zinc-Air Battery Catalysts Market Size by Country
  7.3.1 North America Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2032)
  7.3.2 North America Zinc-Air Battery Catalysts Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
8.2 Europe Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
8.3 Europe Zinc-Air Battery Catalysts Market Size by Country
  8.3.1 Europe Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2032)
  8.3.2 Europe Zinc-Air Battery Catalysts Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Zinc-Air Battery Catalysts Market Size by Region
  9.3.1 Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Region (2021-2032)
  9.3.2 Asia-Pacific Zinc-Air Battery Catalysts Consumption Value by Region (2021-2032)
  9.3.3 China Market Size and Forecast (2021-2032)
  9.3.4 Japan Market Size and Forecast (2021-2032)
  9.3.5 South Korea Market Size and Forecast (2021-2032)
  9.3.6 India Market Size and Forecast (2021-2032)
  9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
10.2 South America Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
10.3 South America Zinc-Air Battery Catalysts Market Size by Country
10.3.1 South America Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2032)
10.3.2 South America Zinc-Air Battery Catalysts Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Zinc-Air Battery Catalysts Market Size by Country
11.3.1 Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa Zinc-Air Battery Catalysts Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Zinc-Air Battery Catalysts Market Drivers
12.2 Zinc-Air Battery Catalysts Market Restraints
12.3 Zinc-Air Battery Catalysts Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers

+357 96 030922
info@marketpublishers.com

12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Zinc-Air Battery Catalysts and Key Manufacturers
13.2 Manufacturing Costs Percentage of Zinc-Air Battery Catalysts
13.3 Zinc-Air Battery Catalysts Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Zinc-Air Battery Catalysts Typical Distributors
14.3 Zinc-Air Battery Catalysts Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Zinc-Air Battery Catalysts Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Zinc-Air Battery Catalysts Consumption Value by Primary Active Material, (USD Million), 2021 & 2025 & 2032
Table 3. Global Zinc-Air Battery Catalysts Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032
Table 4. Global Zinc-Air Battery Catalysts Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Nexceris, LLC Basic Information, Manufacturing Base and Competitors
Table 6. Nexceris, LLC Major Business
Table 7. Nexceris, LLC Zinc-Air Battery Catalysts Product and Services
Table 8. Nexceris, LLC Zinc-Air Battery Catalysts Sales Quantity (Tons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Nexceris, LLC Recent Developments/Updates
Table 10. Hunan Yuanda New Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 11. Hunan Yuanda New Materials Co., Ltd. Major Business
Table 12. Hunan Yuanda New Materials Co., Ltd. Zinc-Air Battery Catalysts Product and Services
Table 13. Hunan Yuanda New Materials Co., Ltd. Zinc-Air Battery Catalysts Sales Quantity (Tons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Hunan Yuanda New Materials Co., Ltd. Recent Developments/Updates
Table 15. AZUL Energy Inc. Basic Information, Manufacturing Base and Competitors
Table 16. AZUL Energy Inc. Major Business
Table 17. AZUL Energy Inc. Zinc-Air Battery Catalysts Product and Services
Table 18. AZUL Energy Inc. Zinc-Air Battery Catalysts Sales Quantity (Tons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. AZUL Energy Inc. Recent Developments/Updates
Table 20. Cerpotech AS Basic Information, Manufacturing Base and Competitors
Table 21. Cerpotech AS Major Business
Table 22. Cerpotech AS Zinc-Air Battery Catalysts Product and Services
Table 23. Cerpotech AS Zinc-Air Battery Catalysts Sales Quantity (Tons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Cerpotech AS Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

Table 25. Global Zinc-Air Battery Catalysts Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 26. Global Zinc-Air Battery Catalysts Revenue by Manufacturer (2021-2026) & (USD Million)
Table 27. Global Zinc-Air Battery Catalysts Average Price by Manufacturer (2021-2026) & (US$/kg)
Table 28. Market Position of Manufacturers in Zinc-Air Battery Catalysts, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 29. Head Office and Zinc-Air Battery Catalysts Production Site of Key Manufacturer
Table 30. Zinc-Air Battery Catalysts Market: Company Product Type Footprint
Table 31. Zinc-Air Battery Catalysts Market: Company Product Application Footprint
Table 32. Zinc-Air Battery Catalysts New Market Entrants and Barriers to Market Entry
Table 33. Zinc-Air Battery Catalysts Mergers, Acquisition, Agreements, and Collaborations
Table 34. Global Zinc-Air Battery Catalysts Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 35. Global Zinc-Air Battery Catalysts Sales Quantity by Region (2021-2026) & (Tons)
Table 36. Global Zinc-Air Battery Catalysts Sales Quantity by Region (2027-2032) & (Tons)
Table 37. Global Zinc-Air Battery Catalysts Consumption Value by Region (2021-2026) & (USD Million)
Table 38. Global Zinc-Air Battery Catalysts Consumption Value by Region (2027-2032) & (USD Million)
Table 39. Global Zinc-Air Battery Catalysts Average Price by Region (2021-2026) & (US$/kg)
Table 40. Global Zinc-Air Battery Catalysts Average Price by Region (2027-2032) & (US$/kg)
Table 41. Global Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 42. Global Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 43. Global Zinc-Air Battery Catalysts Consumption Value by Type (2021-2026) & (USD Million)
Table 44. Global Zinc-Air Battery Catalysts Consumption Value by Type (2027-2032) & (USD Million)
Table 45. Global Zinc-Air Battery Catalysts Average Price by Type (2021-2026) & (US$/kg)

+357 96 030922
info@marketpublishers.com

Table 46. Global Zinc-Air Battery Catalysts Average Price by Type (2027-2032) & (US$/kg)
Table 47. Global Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 48. Global Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 49. Global Zinc-Air Battery Catalysts Consumption Value by Application (2021-2026) & (USD Million)
Table 50. Global Zinc-Air Battery Catalysts Consumption Value by Application (2027-2032) & (USD Million)
Table 51. Global Zinc-Air Battery Catalysts Average Price by Application (2021-2026) & (US$/kg)
Table 52. Global Zinc-Air Battery Catalysts Average Price by Application (2027-2032) & (US$/kg)
Table 53. North America Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 54. North America Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 55. North America Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 56. North America Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 57. North America Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2026) & (Tons)
Table 58. North America Zinc-Air Battery Catalysts Sales Quantity by Country (2027-2032) & (Tons)
Table 59. North America Zinc-Air Battery Catalysts Consumption Value by Country (2021-2026) & (USD Million)
Table 60. North America Zinc-Air Battery Catalysts Consumption Value by Country (2027-2032) & (USD Million)
Table 61. Europe Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 62. Europe Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 63. Europe Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 64. Europe Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 65. Europe Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2026) &

+357 96 030922
info@marketpublishers.com

(Tons)
Table 66. Europe Zinc-Air Battery Catalysts Sales Quantity by Country (2027-2032) & (Tons)
Table 67. Europe Zinc-Air Battery Catalysts Consumption Value by Country (2021-2026) & (USD Million)
Table 68. Europe Zinc-Air Battery Catalysts Consumption Value by Country (2027-2032) & (USD Million)
Table 69. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 70. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 71. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 72. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 73. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Region (2021-2026) & (Tons)
Table 74. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity by Region (2027-2032) & (Tons)
Table 75. Asia-Pacific Zinc-Air Battery Catalysts Consumption Value by Region (2021-2026) & (USD Million)
Table 76. Asia-Pacific Zinc-Air Battery Catalysts Consumption Value by Region (2027-2032) & (USD Million)
Table 77. South America Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 78. South America Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 79. South America Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 80. South America Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 81. South America Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2026) & (Tons)
Table 82. South America Zinc-Air Battery Catalysts Sales Quantity by Country (2027-2032) & (Tons)
Table 83. South America Zinc-Air Battery Catalysts Consumption Value by Country (2021-2026) & (USD Million)
Table 84. South America Zinc-Air Battery Catalysts Consumption Value by Country (2027-2032) & (USD Million)

+357 96 030922
info@marketpublishers.com

Table 85. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Type (2021-2026) & (Tons)
Table 86. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Type (2027-2032) & (Tons)
Table 87. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Application (2021-2026) & (Tons)
Table 88. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Application (2027-2032) & (Tons)
Table 89. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Country (2021-2026) & (Tons)
Table 90. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity by Country (2027-2032) & (Tons)
Table 91. Middle East & Africa Zinc-Air Battery Catalysts Consumption Value by Country (2021-2026) & (USD Million)
Table 92. Middle East & Africa Zinc-Air Battery Catalysts Consumption Value by Country (2027-2032) & (USD Million)
Table 93. Zinc-Air Battery Catalysts Raw Material
Table 94. Key Manufacturers of Zinc-Air Battery Catalysts Raw Materials
Table 95. Zinc-Air Battery Catalysts Typical Distributors
Table 96. Zinc-Air Battery Catalysts Typical Customers

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Zinc-Air Battery Catalysts Picture
Figure 2. Global Zinc-Air Battery Catalysts Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Zinc-Air Battery Catalysts Revenue Market Share by Type in 2025
Figure 4. ORR Catalysts Examples
Figure 5. OER Catalysts Examples
Figure 6. Bifunctional ORR/OER Catalysts Examples
Figure 7. Others Examples
Figure 8. Global Zinc-Air Battery Catalysts Revenue by Primary Active Material, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Zinc-Air Battery Catalysts Revenue Market Share by Primary Active Material in 2025
Figure 10. Manganese Based Catalysts Examples
Figure 11. Silver Based Catalysts Examples
Figure 12. Platinum Group Metal Based Catalysts Examples
Figure 13. Metal Nitrogen Carbon Catalysts Examples
Figure 14. Other Non Precious Transition Metal Based Catalysts Examples
Figure 15. Metal Free Carbon Catalysts Examples
Figure 16. Others Examples
Figure 17. Others Examples
Figure 18. Global Zinc-Air Battery Catalysts Revenue by Product Form, (USD Million), 2021 & 2025 & 2032
Figure 19. Global Zinc-Air Battery Catalysts Revenue Market Share by Product Form in 2025
Figure 20. Dry Catalyst Powders Examples
Figure 21. Catalyst Dispersions and Inks Examples
Figure 22. Catalyst Pastes and Slurries Examples
Figure 23. Others Examples
Figure 24. Global Zinc-Air Battery Catalysts Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 25. Global Zinc-Air Battery Catalysts Revenue Market Share by Application in 2025
Figure 26. Hearing Aids and Medical Devices Examples
Figure 27. Consumer and Specialty Electronics Examples
Figure 28. Stationary Energy Storage Examples

+357 96 030922
info@marketpublishers.com

Figure 29. Backup Power and Telecom Examples
Figure 30. Research and Demonstration Examples
Figure 31. Others Examples
Figure 32. Global Zinc-Air Battery Catalysts Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 33. Global Zinc-Air Battery Catalysts Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 34. Global Zinc-Air Battery Catalysts Sales Quantity (2021-2032) & (Tons)
Figure 35. Global Zinc-Air Battery Catalysts Price (2021-2032) & (US$/kg)
Figure 36. Global Zinc-Air Battery Catalysts Sales Quantity Market Share by Manufacturer in 2025
Figure 37. Global Zinc-Air Battery Catalysts Revenue Market Share by Manufacturer in 2025
Figure 38. Producer Shipments of Zinc-Air Battery Catalysts by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 39. Top 3 Zinc-Air Battery Catalysts Manufacturer (Revenue) Market Share in 2025
Figure 40. Top 6 Zinc-Air Battery Catalysts Manufacturer (Revenue) Market Share in 2025
Figure 41. Global Zinc-Air Battery Catalysts Sales Quantity Market Share by Region (2021-2032)
Figure 42. Global Zinc-Air Battery Catalysts Consumption Value Market Share by Region (2021-2032)
Figure 43. North America Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 44. Europe Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 45. Asia-Pacific Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 46. South America Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 47. Middle East & Africa Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 48. Global Zinc-Air Battery Catalysts Sales Quantity Market Share by Type (2021-2032)
Figure 49. Global Zinc-Air Battery Catalysts Consumption Value Market Share by Type (2021-2032)
Figure 50. Global Zinc-Air Battery Catalysts Average Price by Type (2021-2032) & (US$/kg)

+357 96 030922
info@marketpublishers.com

Figure 51. Global Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 52. Global Zinc-Air Battery Catalysts Revenue Market Share by Application (2021-2032)
Figure 53. Global Zinc-Air Battery Catalysts Average Price by Application (2021-2032) & (US$/kg)
Figure 54. North America Zinc-Air Battery Catalysts Sales Quantity Market Share by Type (2021-2032)
Figure 55. North America Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 56. North America Zinc-Air Battery Catalysts Sales Quantity Market Share by Country (2021-2032)
Figure 57. North America Zinc-Air Battery Catalysts Consumption Value Market Share by Country (2021-2032)
Figure 58. United States Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 59. Canada Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 60. Mexico Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 61. Europe Zinc-Air Battery Catalysts Sales Quantity Market Share by Type (2021-2032)
Figure 62. Europe Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 63. Europe Zinc-Air Battery Catalysts Sales Quantity Market Share by Country (2021-2032)
Figure 64. Europe Zinc-Air Battery Catalysts Consumption Value Market Share by Country (2021-2032)
Figure 65. Germany Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 66. France Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 67. United Kingdom Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 68. Russia Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 69. Italy Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 70. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity Market Share by Type

+357 96 030922
info@marketpublishers.com

(2021-2032)
Figure 71. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 72. Asia-Pacific Zinc-Air Battery Catalysts Sales Quantity Market Share by Region (2021-2032)
Figure 73. Asia-Pacific Zinc-Air Battery Catalysts Consumption Value Market Share by Region (2021-2032)
Figure 74. China Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 75. Japan Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 76. South Korea Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 77. India Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 78. Southeast Asia Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 79. Australia Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 80. South America Zinc-Air Battery Catalysts Sales Quantity Market Share by Type (2021-2032)
Figure 81. South America Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 82. South America Zinc-Air Battery Catalysts Sales Quantity Market Share by Country (2021-2032)
Figure 83. South America Zinc-Air Battery Catalysts Consumption Value Market Share by Country (2021-2032)
Figure 84. Brazil Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 85. Argentina Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 86. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity Market Share by Type (2021-2032)
Figure 87. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity Market Share by Application (2021-2032)
Figure 88. Middle East & Africa Zinc-Air Battery Catalysts Sales Quantity Market Share by Country (2021-2032)
Figure 89. Middle East & Africa Zinc-Air Battery Catalysts Consumption Value Market Share by Country (2021-2032)

+357 96 030922
info@marketpublishers.com

Figure 90. Turkey Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 91. Egypt Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 92. Saudi Arabia Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 93. South Africa Zinc-Air Battery Catalysts Consumption Value (2021-2032) & (USD Million)
Figure 94. Zinc-Air Battery Catalysts Market Drivers
Figure 95. Zinc-Air Battery Catalysts Market Restraints
Figure 96. Zinc-Air Battery Catalysts Market Trends
Figure 97. Porters Five Forces Analysis
Figure 98. Manufacturing Cost Structure Analysis of Zinc-Air Battery Catalysts in 2025
Figure 99. Manufacturing Process Analysis of Zinc-Air Battery Catalysts
Figure 100. Zinc-Air Battery Catalysts Industrial Chain
Figure 101. Sales Channel: Direct to End-User vs Distributors
Figure 102. Direct Channel Pros & Cons
Figure 103. Indirect Channel Pros & Cons
Figure 104. Methodology
Figure 105. Research Process and Data Source

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Zinc-Air Battery Catalysts Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G0AFC2A03A63EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G0AFC2A03A63EN.html