

# Global Zirconium-Based Metal–Organic Framework Market Growth 2026-2032

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## Abstracts

The global Zirconium-Based Metal–Organic Framework market size is predicted to grow from US\$ 200 million in 2025 to US\$ 360 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

Zirconium-based metal-organic frameworks (Zr-MOFs) are porous crystalline materials with high specific surface areas, formed through the self-assembly of zirconium ions ( $Zr^{4+}$ ) or zirconium-oxo clusters (such as  $Zr_6O_4(OH)_4$ ) acting as metal nodes and organic linkers—such as carboxylic acids or organic multidentate ligands—connected by coordination bonds. Zr-MOFs exhibit excellent chemical, thermal, and hydrolytic stability, alongside tunable pore structures and abundant functional sites.

The upstream segment of the industry chain primarily encompasses zirconium salt raw materials (e.g., zirconium oxychloride, zirconium nitrate, zirconium chloride), organic ligands (e.g., terephthalic acid, biphenyldicarboxylic acid, trimesic acid), organic solvents (e.g., DMF, ethanol, methanol), and modulators (e.g., formic acid, acetic acid), as well as equipment for reaction, filtration, drying, and activation. The midstream segment consists of enterprises engaged in the R&D and production of Zr-MOF materials; these companies utilize processes such as solvothermal synthesis, hydrothermal synthesis, and continuous-flow synthesis to produce series including UiO-66, UiO-67, MOF-808, and NU-1000, followed by purification, activation, and functional modification. Downstream applications primarily span fields such as adsorption and separation, catalysis, electrochemical energy storage and battery materials, and chemical/biological sensing.

In 2025, the global sales volume of Zr-MOFs reached 415 kg, with a production capacity of approximately 590 kg; the average selling price was \$492 per gram, and the average

gross profit margin ranged from 30% to 40%.

In recent years, countries worldwide have ramped up policy support for sectors such as carbon neutrality, hydrogen energy, advanced catalysis, and new materials, creating a favorable environment for the industrialization of zirconium-based metal-organic frameworks (MOFs). While Europe and the United States are prioritizing the commercial application of MOFs in carbon capture, hydrogen energy, and industrial separation, China has designated high-performance porous materials, high-end catalytic materials, and advanced energy storage materials as key areas for new material development, actively driving the translation of research findings into industrial applications. Meanwhile, continuous production, scale-up, and cost control have become key investment priorities for enterprises.

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

This Insight Report provides a comprehensive analysis of the global Zirconium-Based Metal–Organic Framework 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 Zirconium-Based Metal–Organic Framework portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Zirconium-Based Metal–Organic Framework market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Zirconium-Based Metal–Organic Framework 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 Zirconium-Based Metal–Organic Framework.

This report presents a comprehensive overview, market shares, and growth opportunities of Zirconium-Based Metal–Organic Framework market by product type, application, key manufacturers and key regions and countries.

## **Segmentation by Type:**

UiO Series

MOF-808 Series

NU Series

PCN Series

## **Segmentation by Aperture Size:**

?2 nm

2–50 nm

## **Segmentation by Particle Size:**

?100 nm

100–1000 nm

?1 ?m

## **Segmentation by Application:**

Adsorption and Separation

Catalysis

Electrochemical Energy Storage and Battery Materials

Chemical/Biological Sensing

Others

## **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.

BASF

MOF Technologies?Nuada?

MOFapps

ProfMOF

novoMOF

Promethean Particles

Framergy

Strem Chemicals

Atomis

American Elements

AVIC Nano

Xi'an Qiyue Biotech

Xi'an Ruixi Biotech

ACS Material

Xianfeng Nanomaterial

CAS Leiming

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Zirconium-Based Metal–Organic Framework market?

What factors are driving Zirconium-Based Metal–Organic Framework market growth, globally and by region?

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

How do Zirconium-Based Metal–Organic Framework market opportunities vary by end market size?

How does Zirconium-Based Metal–Organic Framework break out by Type, by Application?

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