Nanomaterials Market to Reach USD 119.29 Billion by 2031 Driven by Semiconductor and Battery Demand: Mordor Intelligence

Nanomaterials market to grow at 19.91% CAGR through 2031, with North America leading the market and Asia-Pacific emerging as the fastest-growing region.

HYDERABAD, TELANGANA, INDIA, September 4, 2026 /EINPresswire.com/ -- According to Mordor Intelligence, the global nanomaterials market size is set for strong growth, rising from USD 48.12 billion in 2026 to USD 119.29 billion by 2031, at a 19.91% CAGR. Growth is supported by rising use in advanced semiconductors, vaccines, water-treatment membranes, and next-generation batteries. Demand is also increasing for nano-clay in cement and specialized, surface-treated nanomaterials, particularly as manufacturers focus on higher purity and performance standards.

Nanomaterials Market Trends and Drivers:

Growing Use of Nanomaterials in Water Treatment

Nano-based membranes are gaining attention in water treatment because they can improve filtration performance, reduce energy use, and help control biofouling. Their adoption is increasing across water-stressed regions, although evolving testing and certification requirements may affect how quickly these solutions reach wider commercial use.

Unstable Supply Costs for Nano Feedstocks

Prices of key nanomaterial inputs remain sensitive to mining disruptions, environmental restrictions, and trade controls. This uncertainty is encouraging manufacturers to secure supplies through longer-term agreements and closer relationships with raw-material producers, though such strategies can require greater investment.

Rising Investment in Advanced Production Equipment

Producing high-performance nanomaterials often requires specialized equipment and controlled manufacturing environments. High equipment costs and long procurement timelines are increasing the financial burden for manufacturers, giving companies with stronger funding and access to investment support an advantage.

“As demand for advanced materials continues to rise across electronics, healthcare, energy, water treatment, and construction, the nanomaterials market is gaining momentum across a range of applications. Mordor Intelligence uses a comprehensive research methodology supported by verified primary interviews and secondary data sources, helping stakeholders understand market trends, regional demand patterns, material developments, and competitive dynamics through objective and data-driven insights,” says Himanshu Vasisht, Senior Research Manager, Mordor Intelligence.

Nanomaterials Industry Segmentation:

By Product Type

Nanoparticles

Nanofibers

Nanotubes

Nanoclays

Nanowires

By Structure Type

Non-polymer Organic Nanomaterials

Polymeric Nanomaterials

By Material Category

Carbon-based

Metal-based

Metal-oxide and Ceramic-based

Polymeric and Lipid-based

By End-user Industry

Construction

Electronics

Energy

Healthcare

Personal Care

Rubber

Other Industries

By Regions

Asia-Pacific

North America

Europe

South America

Middle East and Africa

For a full breakdown of market dynamics, segmentation insights, regional analysis, and competitive landscape, access the details of the Mordor Intelligence report: https://www.mordorintelligence.com/industry-reports/nanomaterials-market?utm_source=einpr

Nanomaterials Market Share by Region:

North America: Strong Demand Across Key Applications

North America remains a strong hub for nanomaterials, supported by semiconductor manufacturing, healthcare applications, and growing graphene production. Government support for domestic chip and biotechnology industries is also encouraging demand.

Europe, South America, and Middle East: Emerging Regional Opportunities

Europe benefits from established specialty chemical companies and strict regulatory standards, while graphene and advanced nanomaterial applications continue to expand. South America is gradually adopting nanomaterials in construction, while the Middle East is developing its role as a supplier of key nanomaterial precursors.

The Nanomaterials industry report is also available in the following languages:

Japanese: https://www.mordorintelligence.com/ja/industry-reports/nanomaterials-market?utm_source=einpr

French: https://www.mordorintelligence.com/fr/industry-reports/nanomaterials-market?utm_source=einpr

German: https://www.mordorintelligence.com/de/industry-reports/nanomaterials-market?utm_source=einpr

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Portuguese: https://www.mordorintelligence.com/pt/industry-reports/nanomaterials-market?utm_source=einpr

Recent Industry Developments:

March 2026: Research published in npj Materials Sustainability highlighted graphene oxide as a multifunctional nanomaterial with applications across energy, environmental technologies, and healthcare. Its tunable surface properties and high surface area are supporting wider research into advanced coatings, membranes, and composite materials.

May 2026: The Royal Society of Chemistry highlighted growing research around advanced semiconductor nanocrystals, reflecting continued interest in nanoscale materials for electronic and optoelectronic applications. These materials are being studied for their tunable properties and potential use in next-generation devices.

Nanomaterials Companies:

ACS Material

American Elements

Arkema

Ascensus

BASF SE

Cabot Corporation

Chasm Advanced Materials, Inc.

Evonik Industries AG

Jiangsu Cnano Technology Co., Ltd.

LG Chem

Merck KGaA

Nano-C

Nanocyl SA

NAWAH

OCSiAl

QuantumSphere, Inc.

Raymor Industries Inc.

Resonac Holdings Corporation

Solésence

US Research Nanomaterials, Inc.

Zyvex Technologies

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Marble Market Size: Marble market report is segmented by product types, colors, applications, end-user sectors, and regions. It covers natural and artificial marble, major color categories, key uses such as construction and decoration, residential and other end-user segments, and regional markets including Asia-Pacific, North America, and Europe

Precipitated Silica Industry: Precipitated silica industry report provides a detailed segmentation based on grade, form, production process, end-use industry, and geography. It covers rubber, food, feed, and other grades; powder, beads, micro-pearls. The report also covers Asia-Pacific, North America, Europe, South America, and the Middle East and Africa

Get Report Details & Insights: https://www.mordorintelligence.com/industry-reports/precipitated-silica-market?utm_source=einpr

Lithium Market Size: Lithium market report is segmented with industry by compound, application, end-user industry, and geography. It includes lithium carbonate, chloride, hydroxide, and other compounds, along with applications such as batteries, lubricants and grease, and air treatment.

Get Report Details & Insights: https://www.mordorintelligence.com/industry-reports/lithium-market?utm_source=einpr

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Mordor Intelligence is a trusted partner for businesses seeking comprehensive and actionable market intelligence. Our global reach, expert team, and tailored solutions empower organizations and individuals to make informed decisions, navigate complex markets, and achieve their strategic goals.

With a team of over 550 domain experts and on-ground specialists spanning 150+ countries, Mordor Intelligence possesses a unique understanding of the global business landscape. This expertise translates into comprehensive syndicated and custom research reports covering a wide spectrum of industries, including aerospace & defense, agriculture, animal nutrition and wellness, automation, automotive, chemicals & materials, consumer goods & services, electronics, energy & power, financial services, food & beverages, healthcare, hospitality & tourism, information & communications technology, investment opportunities, and logistics.

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