

# Nanomaterials Market to Reach \$33.69 Billion by 2029 with 15.6% CAGR

*The Business Research Company's  
Nanomaterials Market to Reach \$33.69  
Billion by 2029 with 15.6% CAGR*

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## What Is The Nanomaterials Market Size And Growth?

In recent years, the size of the nanomaterials market has seen rapid expansion. An increase from \$16.75 billion in 2024 to \$18.87 billion in 2025, marking a compound annual growth rate (CAGR) of 12.6%, is expected. The growth observed during the historical period is credited to factors such as rising investments in research and development activities, growing consumer demand for compact, powerful devices, advancements in camera technology, increasing need for high-quality video content, and greater usage of smartphones and other mobile devices.

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It will grow to \$33.7 billion in 2029 at a compound annual growth rate (CAGR) of 15.6%.”

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In the coming years, the nanomaterials market size is projected to experience substantial growth, reaching \$33.7 billion in 2029 with a compound annual growth rate (CAGR) of 15.6%. This growth during the forecast period can be ascribed to the increasing demand for nanomaterials in drug distribution systems, the heightened utilization of nanomaterials in tissue engineering, burgeoning energy storage solutions, and the rising applications in aerospace and electronics miniaturization. Key trends during the forecast period include novelties in nano-technology research, developments in nano-technology, emphasis on properties of biocompatibility and biodegradability, the application of nanomaterials in 3D printing, joint research efforts, and the use of synthetic and natural polymers in nano-manufacturing.

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### What Are The Current Leading Growth Drivers For Nanomaterials Market?

The rise in nanomaterials application within the global healthcare sector is a significant factor propelling the growth of the nanomaterials market. The healthcare sector utilizes nanomaterials to target cellular anomalies and sub-cellular irregularities and to enhance the effectiveness of vaccines and medications by facilitating easy access to the body. This results in an escalating demand for nanomaterials aligning with their growing use in healthcare. For example, in December 2023, a report by the US-based National Nanotechnology Initiative highlighted that the economic impact of nanotechnology on the US economy in 2022 ranged from \$67 billion to \$83 billion, reaching nearly \$1 trillion over the course of two decades. This significant amount greatly surpasses the US government's investment of roughly \$40 billion during the same timeframe, indicating the nation's dedication to progress in this realm through the National Nanotechnology Initiative (NNI). Furthermore, when factoring in the influence of the microelectronics and semiconductor industry, the estimated impact for 2022 increases to \$268 billion to \$297 billion. Therefore, the expanding role and use of nanomaterials in the healthcare sector are predicted to augment the growth of the nanomaterials market in the upcoming years.

### Which Companies Are Currently Leading In The Nanomaterials Market?

Major players in the Nanomaterials include:

- BASF SE
- Bayer AG
- Chasm Technologies Ltd.
- Cnano Technology
- DuPont Air Products Nanomaterials LLC
- Elmarco Ltd.
- Finetex ENE Inc.
- Glonatech SA
- Kuraray Co. Ltd.
- Nanocyl SA

### What Are The Main Trends, Positively Impacting The Growth Of Nanomaterials Market?

Leading corporations in the nanomaterials market are innovating new materials to bolster their market position. For example, in November 2022, American Elements, a company specializing in materials from the United States, launched a ground-breaking nanoscale electrolyte material intended for advanced Lithium-Sulfur Battery technology. This unique ceramic compound, made up of lithium, lanthanum, and zirconium oxide nanoparticles, provides improved energy density and stability over a more extensive temperature range than traditional electrolytes used in commercial lithium-ion batteries.

### How Is The Nanomaterials Market Segmented?

The nanomaterials market covered in this report is segmented –

- 1) By Material Type: Carbon Based Nanomaterials, Metal And Non-Metal Oxides, Metal Based Nanomaterials, Dendrimers Nanomaterials, Nanoclay, Nanocellulose, Other Materials
- 2) By Structure Type: Non-Polymer Organic Nanomaterials, Polymeric Nanomaterials
- 3) By End User: Paint And Coatings, Packaging, Construction, Electronics And Consumer Goods, Other End-Users

#### Subsegments:

- 1) By Carbon Based Nanomaterials: Carbon Nanotubes (CNTs), Graphene, Fullerenes, Carbon Nanofibers
- 2) By Metal And Non-Metal Oxides: Titanium Dioxide (TiO<sub>2</sub>), Zinc Oxide (ZnO), Silica Nanoparticles, Iron Oxide Nanoparticles
- 3) By Metal Based Nanomaterials: Gold Nanoparticles, Silver Nanoparticles, Platinum Nanoparticles, Copper Nanoparticles
- 4) By Dendrimers Nanomaterials: Polyamidoamine (PAMAM) Dendrimers, Polypropylene Imine (PPI) Dendrimers, Other Dendrimer Types
- 5) By Nanoclay: Montmorillonite Nanoclay, Kaolinite Nanoclay, Halloysite Nanoclay
- 6) By Nanocellulose: Bacterial Nanocellulose, Plant Nanocellulose, Cellulose Nanocrystals
- 7) By Other Materials: Quantum Dots, Nanocomposites, Hybrid Nanomaterials

View the full nanomaterials market report:

<https://www.thebusinessresearchcompany.com/report/nanomaterials-global-market-report>

#### Which Is The Dominating Region For The Nanomaterials Market?

In 2024, North America led the nanomaterials market with the highest share, while Asia-Pacific is projected to experience the most rapid growth in the prediction period. The report on the nanomaterials market encompasses several regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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