

## **Nanomaterials Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

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### **Report description:**

The nanomaterials market is expected to register a CAGR of more than 19 % during the forecast period.

Due to the COVID-19 pandemic, various countries worldwide imposed lockdowns in the first nine months of 2020. Thus, various manufacturing plants and production facilities were shut down or halted production. This situation negatively affected the demand for construction, electronics, rubber, and personal care applications. However, increased usage of nanomaterials in healthcare and construction industries helped the market to retain its growth rate in 2021.

### **Key Highlights**

The growing usage of nanomaterials in the healthcare industry and the increasing usage of nanomaterials in water treatment applications are expected to drive the demand in the nanomaterials market during the forecast period.

However, higher costs of technology are expected to hinder the growth of the market.

Increasing research activities and growing applications of nanomaterials is expected to act as market opportunity in the forecast period.

Asia-Pacific is expected to drive the market growth rate during the forecast period.

### **Nanomaterials Market Trends**

The Electrical and Electronics Segment to Dominate the Market

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In the electrical and electronics segment, the demand for nanomaterials has been greatly increasing, owing to the major advances in computing and electronics, leading to faster, smaller, and more portable systems that can manage and store larger and larger amounts of information.

Some of the major applications of nanomaterials in the electronics industry include the use of carbon nanotubes in semiconductor chips, the use of a variety of nanomaterials in lighting technologies, including light-emitting diodes or LEDs and organic light-emitting diodes or OLEDs, use of quantum dots in lasers, along with ongoing research into the application of others.

The electronics manufacturing market in Asia-Pacific is expected to grow rapidly during the upcoming years due to the presence of a large number of original equipment manufacturers (OEMs) in the region. Low cost, the availability of raw materials, and cheap labor are driving the growth of the sector. The companies in the region provide manufacturing and assembling services to companies in Germany, France, and the United States.

China has the world's largest electronics production base and offers tough competition to the existing upstream producers, such as South Korea, Singapore, and Taiwan. Electronic products, such as smartphones, OLED TVs, and tablets, among others, registered the highest growth in the consumer electronics segment of the market in terms of demand.

As per the report published by JEITA, the production of global electronics and IT industries is expected to increase significantly in 2023 and reach USD 3,526.6 million on comparing to USD 3,415.9 billion in 2021.

In Vietnam, the South Korean giant, Samsung has heavily invested in a production facility in Ho Chi Minh City, along with many other multinational electronic firms, like Japan's Sharp and Denmark's Sonion, which established production facilities in Vietnam. Microsoft, Nintendo, Ricoh, and Dell, are some other companies that plan to set up production lines in Vietnam.

From the above-mentioned factors, the demand for nanomaterials from the electrical and electronics segment is expected to grow over the forecasting period.

#### Asia Pacific Region to Dominate Nanomaterials Market

The Asia-Pacific region dominated the global market share. With growing construction activities and the increasing demand for furniture in countries such as China, India, and Japan, the demand for nanomaterials is increasing in the region.

The Chinese government has started policies to support and encourage domestic medical device innovation, providing opportunities for the market studied. As the second-largest healthcare industry globally, behind the United States, the country's healthcare market has been more rigorous, especially in light of the COVID-19 pandemic in 2020. China is expected to have 25% of the global medical device industry revenue share by 2030.

The healthcare sector in India is expected to reach USD 372 billion by 2022, mainly driven by increasing health awareness, access to insurance, rising income, and diseases. The medical sector in India is benefiting from the growing population at a rate of 1.6% per year. An aging population of over 100 million, rising incidences of lifestyle diseases, rising incomes, and increased penetration of health insurance are fueling the growth of more sophisticated and accurate medical devices in the industry.

In Japan, the 65-and-above demographic represents around 30% of the country's total population and is expected to reach around 40% by 2050. The rapidly aging Japanese population, the increasing number of patients with chronic and lifestyle diseases, and universal health insurance coverage and regulatory measures are driving the Japanese healthcare market. Japan is boosting its medical sector as its citizens are getting older at a faster rate than the citizens of any other nation.?

Thailand is acclaimed as a major healthcare hub in Asia. Thailand, as a leader in Asia, is found to be playing a vital role in many regional and international organizations, dedicated to promoting the advancement of medical devices in the area. Most of the medical devices manufactured in Thailand for export fall into the category of single-use devices and approximately 84% of the revenue of all medical supplies exported are in this group.?

All the aforementioned factors, in turn, are projected to show a significant impact on the market during the forecast period.

#### Nanomaterials Market Competitor Analysis

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The nanomaterials market is highly fragmented. The companies in the market focus on specific types of nanomaterials and also on specific applications. Some of the key players in the market (in no particular order) include American Elements, Chengdu Organic Chemicals Co. Ltd (Timesnano), Jiangsu Cnano Technology Co. Ltd, Cabot Corporation, and ACS Material, among others.

Additional Benefits:

The market estimate (ME) sheet in Excel format  
3 months of analyst support

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