

# Nanomaterials Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/N83CE372A505EN.html>

Date: July 2023

Pages: 136

Price: US\$ 2,499.00 (Single User License)

ID: N83CE372A505EN

## Abstracts

### Market Overview:

The global nanomaterials market size reached US\$ 26.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 73.7 Billion by 2028, exhibiting a growth rate (CAGR) of 17.8% during 2023-2028.

Nanomaterials (NMs) are microscopic particles in the nanometer (nm) scale occurring naturally, such as blood-borne proteins that are found in the blood and body fat. They can also be engineered to perform specialized functions. At present, they find extensive applications in the manufacturing of sunscreens, cosmetics, sports equipment, stain-resistant clothing, tires, and electronics. They are also utilized in medical diagnosis, imaging, drug delivery, and environmental remediation.

### Nanomaterials Market Trends:

The properties of conventional construction materials can be enhanced with the usage of NMs. This represents one of the key factors positively influencing the employment of NMs in the construction sector worldwide. Besides this, there is an increase in the use of NMs in fertilizers, herbicides, pesticides, sensors, quality stimulants, food packaging, and nutraceuticals. They are also used in aircraft as a substitute for conventional composites to help reduce their weight and save fuel. In addition, NMs are utilized in automotive exhaust and petroleum refining systems to improve chemical reactions while minimizing pollution and expenses. Apart from this, they are contributing to modern dentistry in composite resin and bonding systems, coating materials for dental implants, and dental restorations. This, coupled with the rising adoption of NMs in water and wastewater treatment on account of their reactivity and adsorption capacities, is propelling the market growth. Moreover, scientists have developed a biosensor system

using NMs, which can diagnose the coronavirus disease (COVID-19) successfully. This, along with recent advancements in nanomaterials and nanodevices, such as nanosensors, nano-emulsions, and nanopesticides, is projected to facilitate the market growth. Furthermore, the rising utilization of platinum (Pt)-based NMs in the energy sector is augmenting the overall sales and profitability.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nanomaterials market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, structure type and end use industry.

#### Breakup by Product Type:

- Nanoparticles
- Nanofibers
- Nanotubes
- Others

#### Breakup by Structure Type:

- Non-polymer Organic Nanomaterials
- Polymeric Nanomaterials

#### Breakup by End Use Industry:

- Healthcare
- Electrical and Electronics
- Energy
- Construction
- Rubber
- Personal Care
- Others

#### Breakup by Region:

## Global Nanomaterials Market Market Share, By Region (in %)

North America

Latin America

Europe

Asia-Pacific

Middle East & Africa

To get more information on the regional analysis of this market, Request Sample

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ACS Material LLC, American Elements, Arkema S.A., BASF SE, Cabot Corporation, Daikin Industries Ltd., Jiangsu Cnano Technology Co.

Ltd., LG Chem Ltd., Nanocyl SA, Nanophase Technologies Corporation, Showa Denko K. K. and Strem Chemicals Inc. (Ascensus Specialties LLC).

### Key Questions Answered in This Report

1. What was the size of the global nanomaterials market in 2022?
2. What is the expected growth rate of the global nanomaterials market during 2023-2028?
3. What has been the impact of COVID-19 on the global nanomaterials market?
4. What are the key factors driving the global nanomaterials market?
5. What is the breakup of the global nanomaterials market based on the product type?
6. What is the breakup of the global nanomaterials market based on the end use industry?
7. What are the key regions in the global nanomaterials market?
8. Who are the key players/companies in the global nanomaterials market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL NANOMATERIALS MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 Nanoparticles
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Nanofibers
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Nanotubes

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY STRUCTURE TYPE**

- 7.1 Non-polymer Organic Nanomaterials
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Polymeric Nanomaterials
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast

## **8 MARKET BREAKUP BY END USE INDUSTRY**

- 8.1 Healthcare
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Electrical and Electronics
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Energy
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Construction
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast
- 8.5 Rubber
  - 8.5.1 Market Trends
  - 8.5.2 Market Forecast
- 8.6 Personal Care
  - 8.6.1 Market Trends
  - 8.6.2 Market Forecast
- 8.7 Others
  - 8.7.1 Market Trends
  - 8.7.2 Market Forecast

## 9 MARKET BREAKUP BY REGION

### 9.1 North America

#### 9.1.1 United States

##### 9.1.1.1 Market Trends

##### 9.1.1.2 Market Forecast

#### 9.1.2 Canada

##### 9.1.2.1 Market Trends

##### 9.1.2.2 Market Forecast

### 9.2 Asia-Pacific

#### 9.2.1 China

##### 9.2.1.1 Market Trends

##### 9.2.1.2 Market Forecast

#### 9.2.2 Japan

##### 9.2.2.1 Market Trends

##### 9.2.2.2 Market Forecast

#### 9.2.3 India

##### 9.2.3.1 Market Trends

##### 9.2.3.2 Market Forecast

#### 9.2.4 South Korea

##### 9.2.4.1 Market Trends

##### 9.2.4.2 Market Forecast

#### 9.2.5 Australia

##### 9.2.5.1 Market Trends

##### 9.2.5.2 Market Forecast

#### 9.2.6 Indonesia

##### 9.2.6.1 Market Trends

##### 9.2.6.2 Market Forecast

#### 9.2.7 Others

##### 9.2.7.1 Market Trends

##### 9.2.7.2 Market Forecast

### 9.3 Europe

#### 9.3.1 Germany

##### 9.3.1.1 Market Trends

##### 9.3.1.2 Market Forecast

#### 9.3.2 France

##### 9.3.2.1 Market Trends

##### 9.3.2.2 Market Forecast

#### 9.3.3 United Kingdom

- 9.3.3.1 Market Trends
- 9.3.3.2 Market Forecast
- 9.3.4 Italy
  - 9.3.4.1 Market Trends
  - 9.3.4.2 Market Forecast
- 9.3.5 Spain
  - 9.3.5.1 Market Trends
  - 9.3.5.2 Market Forecast
- 9.3.6 Russia
  - 9.3.6.1 Market Trends
  - 9.3.6.2 Market Forecast
- 9.3.7 Others
  - 9.3.7.1 Market Trends
  - 9.3.7.2 Market Forecast
- 9.4 Latin America
  - 9.4.1 Brazil
    - 9.4.1.1 Market Trends
    - 9.4.1.2 Market Forecast
  - 9.4.2 Mexico
    - 9.4.2.1 Market Trends
    - 9.4.2.2 Market Forecast
  - 9.4.3 Others
    - 9.4.3.1 Market Trends
    - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
  - 9.5.1 Market Trends
  - 9.5.2 Market Breakup by Country
  - 9.5.3 Market Forecast

## **10 SWOT ANALYSIS**

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

## **11 VALUE CHAIN ANALYSIS**



## **12 PORTERS FIVE FORCES ANALYSIS**

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

## **13 PRICE ANALYSIS**

## **14 COMPETITIVE LANDSCAPE**

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
  - 14.3.1 ACS Material LLC
    - 14.3.1.1 Company Overview
    - 14.3.1.2 Product Portfolio
  - 14.3.2 American Elements
    - 14.3.2.1 Company Overview
    - 14.3.2.2 Product Portfolio
  - 14.3.3 Arkema S.A.
    - 14.3.3.1 Company Overview
    - 14.3.3.2 Product Portfolio
    - 14.3.3.3 Financials
    - 14.3.3.4 SWOT Analysis
  - 14.3.4 BASF SE
    - 14.3.4.1 Company Overview
    - 14.3.4.2 Product Portfolio
    - 14.3.4.3 Financials
    - 14.3.4.4 SWOT Analysis
  - 14.3.5 Cabot Corporation
    - 14.3.5.1 Company Overview
    - 14.3.5.2 Product Portfolio
    - 14.3.5.3 Financials
    - 14.3.5.4 SWOT Analysis
  - 14.3.6 Daikin Industries Ltd.
    - 14.3.6.1 Company Overview

- 14.3.6.2 Product Portfolio
- 14.3.6.3 Financials
- 14.3.6.4 SWOT Analysis
- 14.3.7 Jiangsu Cnano Technology Co. Ltd.
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
- 14.3.8 LG Chem Ltd.
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
  - 14.3.8.3 Financials
  - 14.3.8.4 SWOT Analysis
- 14.3.9 Nanocyl SA
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
- 14.3.10 Nanophase Technologies Corporation
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
  - 14.3.10.3 Financials
  - 14.3.10.4 SWOT Analysis
- 14.3.11 Showa Denko K. K.
  - 14.3.11.1 Company Overview
  - 14.3.11.2 Product Portfolio
  - 14.3.11.3 Financials
  - 14.3.11.4 SWOT Analysis
- 14.3.12 Strem Chemicals Inc. (Ascensus Specialties LLC)
  - 14.3.12.1 Company Overview
  - 14.3.12.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Nanomaterials Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Nanomaterials Market Forecast: Breakup by Product Type (in Million US\$), 2023-2028

Table 3: Global: Nanomaterials Market Forecast: Breakup by Structure Type (in Million US\$), 2023-2028

Table 4: Global: Nanomaterials Market Forecast: Breakup by End Use Industry (in Million US\$), 2023-2028

Table 5: Global: Nanomaterials Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Nanomaterials Market: Competitive Structure

Table 7: Global: Nanomaterials Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Nanomaterials Market: Major Drivers and Challenges

Figure 2: Global: Nanomaterials Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Nanomaterials Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Nanomaterials Market: Breakup by Product Type (in %), 2022

Figure 5: Global: Nanomaterials Market: Breakup by Structure Type (in %), 2022

Figure 6: Global: Nanomaterials Market: Breakup by End Use Industry (in %), 2022

Figure 7: Global: Nanomaterials Market: Breakup by Region (in %), 2022

Figure 8: Global: Nanomaterials (Nanoparticles) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Nanomaterials (Nanoparticles) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Nanomaterials (Nanofibers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Nanomaterials (Nanofibers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Nanomaterials (Nanotubes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Nanomaterials (Nanotubes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Nanomaterials (Other Product Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Nanomaterials (Other Product Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Nanomaterials (Non-polymer Organic Nanomaterials) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Nanomaterials (Non-polymer Organic Nanomaterials) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Nanomaterials (Polymeric Nanomaterials) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Nanomaterials (Polymeric Nanomaterials) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Nanomaterials (Healthcare) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Nanomaterials (Healthcare) Market Forecast: Sales Value (in Million

US\$), 2023-2028

Figure 22: Global: Nanomaterials (Electrical and Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Nanomaterials (Electrical and Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Nanomaterials (Energy) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Nanomaterials (Energy) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Nanomaterials (Construction) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Nanomaterials (Construction) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Nanomaterials (Rubber) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Nanomaterials (Rubber) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Nanomaterials (Personal Care) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Nanomaterials (Personal Care) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Nanomaterials (Other End Use Industries) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Nanomaterials (Other End Use Industries) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: North America: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: North America: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: United States: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: United States: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Canada: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Canada: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Asia-Pacific: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Asia-Pacific: Nanomaterials Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 42: China: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: China: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 44: Japan: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Japan: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 46: India: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: India: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 48: South Korea: Nanomaterials Market: Sales Value (in Million US\$), 2017 &  
2022

Figure 49: South Korea: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 50: Australia: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Australia: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 52: Indonesia: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Indonesia: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 54: Others: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Others: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 56: Europe: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Europe: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 58: Germany: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Germany: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 60: France: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: France: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 62: United Kingdom: Nanomaterials Market: Sales Value (in Million US\$), 2017 &  
2022

Figure 63: United Kingdom: Nanomaterials Market Forecast: Sales Value (in Million  
US\$), 2023-2028

Figure 64: Italy: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Italy: Nanomaterials Market Forecast: Sales Value (in Million US\$),  
2023-2028

Figure 66: Spain: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Spain: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Russia: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Russia: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Others: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Latin America: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Latin America: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Brazil: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Brazil: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Mexico: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Mexico: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Middle East and Africa: Nanomaterials Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Middle East and Africa: Nanomaterials Market: Breakup by Country (in %), 2022

Figure 82: Middle East and Africa: Nanomaterials Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Global: Nanomaterials Industry: SWOT Analysis

Figure 84: Global: Nanomaterials Industry: Value Chain Analysis

Figure 85: Global: Nanomaterials Industry: Porter's Five Forces Analysis

## I would like to order

Product name: Nanomaterials Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/N83CE372A505EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N83CE372A505EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



