

Global Nanotechnology Market Report and Forecast 2024-2032

Market Report | 2023-11-20 | 193 pages | EMR Inc.

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Report description:

Global Nanotechnology Market Report and Forecast 2024-2032 Market Outlook

According to the report by Expert Market Research (EMR), the global nanotechnology market is projected to grow at a CAGR of 10% between 2024 and 2032 reaching a value of approximate USD 3.17 billion by 2032.. Aided by the remarkable potential in sectors from medicine to materials and electronics, the market is expected to grow significantly by 2032.

Nanotechnology, broadly defined, pertains to the manipulation of matter at the atomic and molecular scale, typically dealing with structures sized between 1 to 100 nanometres. This technology has emerged as a multidisciplinary field, promising unprecedented advancements in diverse sectors like healthcare, electronics, energy, and materials science. The quintessential strength of nanotechnology lies in its ability to offer superior performance, durability, and efficiency.

The surge in demand for miniaturised devices and enhanced materials in electronics and healthcare domains is largely propelling the nanotechnology market growth. As industries across the board recognise the immense potential of materials and systems at the nanoscale, there's been a substantial influx of investments and research in this sector. Nanotechnology-enabled products often provide improved performance, longevity, and cost-efficiency, making them increasingly attractive to both producers and consumers.

Healthcare, in particular, has emerged as a primary beneficiary of nanotechnological advancements. Nanomedicine, a sub-field of nanotechnology, offers ground-breaking solutions in drug delivery systems, ensuring that therapeutic agents target affected regions with pinpoint accuracy, thereby minimising side effects. The growing global health concerns and the subsequent focus on advanced treatment methodologies underscore the escalating demand for nanotechnological applications in medicine. Electronics and energy sectors too are undergoing revolutionary shifts due to nanotechnological interventions. The constant push for downsizing electronic components without compromising their efficiency is bolstering the nanotechnology market demand. Similarly, in the renewable energy sector, nanotechnology promises improved storage capacities and efficiency, particularly in solar energy harnessing.

The materials industry is not far behind in leveraging nanotechnology's prowess. With the development of nanocomposites and similar innovative materials, industries can now avail properties like enhanced durability, conductivity, and resistance in their products.

However, with innovation comes responsibility. As industries integrate nanotechnology, concerns related to the environmental and health impacts of nanoparticles arise. This has spurred governments and institutions globally to impose stringent regulations to ensure safe and sustainable applications of this technology. Hence, the nanotechnology market outlook is expected to witness an upward trajectory in the forecast period.

Market Segmentation

The market can be divided based on type, application, and region.

Market Breakup by Type

- -∏Nano Sensors
- o
 ☐Optical Nano Sensor
- o∏Chemical Nano Sensor
- o∏Physical Nano Sensor
- o∏BioSensors
- o∏Others
- ¬Nano Device
- o∏Nanomanipulator
- o

 Nanomechanical Test Instruments
- o

 Nanoscale Infrared Spectrometers
- o∏Others

Market Breakup by Application

- -∏Electronics
- -[Energy
- Chemical Manufacturing
- Aerospace and Defence
- -□Healthcare
- -∏Others

Market Breakup by Region

- North America
- -□Europe
- -□Asia Pacific
- -∏Latin America
- -□Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global nanotechnology market. Some of the major players explored in the report by Expert Market Research are as follows:

- Altair Nanotechnologies Inc.
- -□Applied Nanotech Inc
- -∏Advanced Nano Products Co Ltd
- Bruker Corporation
- -□Biosensors International Group Ltd.
- -□Espin Technology Inc.
- -□Imina Technologies SA
- Nanonics Imaging Ltd.
- -□DuPont de Nemours, Inc.
- -∏Arkema Group
- - \square Others
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*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Table of Contents:

- 1 Preface
- 2 Report Coverage Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Snapshot
 - 6.1 Global
 - 6.2 Regional
- 7 Opportunities and Challenges in the Market
- 8 Global Nanotechnology Market Analysis
 - 8.1 Key Industry Highlights
 - 8.2 Global Nanotechnology Historical Market (2018-2023)
 - 8.3 Global Nanotechnology Market Forecast (2024-2032)
 - 8.4 Global Nanotechnology Market by Type
 - 8.4.1 Nano Sensors
 - 8.4.1.1 Market Share
 - 8.4.1.2 Historical Trend (2018-2023)
 - 8.4.1.3 Forecast Trend (2024-2032)
 - 8.4.1.4 Nano Sensors by Type
 - 8.4.1.4.1 Optical Nano Sensor
 - 8.4.1.4.2 Chemical Nano Sensor
 - 8.4.1.4.3 Physical Nano Sensor
 - 8.4.1.4.4 BioSensors
 - 8.4.1.4.5 Others
 - 8.4.2 Nano Device

- 8.4.2.1 Market Share
- 8.4.2.2 Historical Trend (2018-2023)
- 8.4.2.3 Forecast Trend (2024-2032)
- 8.4.2.4 Nano Device by Type
 - 8.4.2.4.1 Nanomanipulator
 - 8.4.2.4.2 Nanomechanical Test Instruments
 - 8.4.2.4.3 Nanoscale Infrared Spectrometers
 - 8.4.2.4.4 Others
- 8.5 Global Nanotechnology Market by Application
 - 8.5.1 Electronics
 - 8.5.1.1 Market Share
 - 8.5.1.2 Historical Trend (2018-2023)
 - 8.5.1.3 Forecast Trend (2024-2032)
 - 8.5.2 Energy
 - 8.5.2.1 Market Share
 - 8.5.2.2 Historical Trend (2018-2023)
 - 8.5.2.3 Forecast Trend (2024-2032)
 - 8.5.3 Chemical Manufacturing
 - 8.5.3.1 Market Share
 - 8.5.3.2 Historical Trend (2018-2023)
 - 8.5.3.3 Forecast Trend (2024-2032)
 - 8.5.4 Aerospace and Defence
 - 8.5.4.1 Market Share
 - 8.5.4.2 Historical Trend (2018-2023)
 - 8.5.4.3 Forecast Trend (2024-2032)
 - 8.5.5 Healthcare
 - 8.5.5.1 Market Share
 - 8.5.5.2 Historical Trend (2018-2023)
 - 8.5.5.3 Forecast Trend (2024-2032)
 - 8.5.6 Others
- 8.6 Global Nanotechnology Market by Region
 - 8.6.1 North America
 - 8.6.1.1 Market Share
 - 8.6.1.2 Historical Trend (2018-2023)
 - 8.6.1.3 Forecast Trend (2024-2032)
 - 8.6.2 Europe
 - 8.6.2.1 Market Share
 - 8.6.2.2 Historical Trend (2018-2023)
 - 8.6.2.3 Forecast Trend (2024-2032)
 - 8.6.3 Asia Pacific
 - 8.6.3.1 Market Share
 - 8.6.3.2 Historical Trend (2018-2023)
 - 8.6.3.3 Forecast Trend (2024-2032)
 - 8.6.4 Latin America
 - 8.6.4.1 Market Share
 - 8.6.4.2 Historical Trend (2018-2023)
 - 8.6.4.3 Forecast Trend (2024-2032)

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- 8.6.5 Middle East and Africa
 - 8.6.5.1 Market Share
 - 8.6.5.2 Historical Trend (2018-2023)
 - 8.6.5.3 Forecast Trend (2024-2032)
- 9 North America Nanotechnology Market Analysis
 - 9.1 United States of America
 - 9.1.1 Market Share
 - 9.1.2 Historical Trend (2018-2023)
 - 9.1.3 Forecast Trend (2024-2032)
 - 9.2 Canada
 - 9.2.1 Market Share
 - 9.2.2 Historical Trend (2018-2023)
 - 9.2.3 Forecast Trend (2024-2032)
- 10 Europe Nanotechnology Market Analysis
 - 10.1 United Kingdom
 - 10.1.1 Market Share
 - 10.1.2 Historical Trend (2018-2023)
 - 10.1.3 Forecast Trend (2024-2032)
 - 10.2 Germany
 - 10.2.1 Market Share
 - 10.2.2 Historical Trend (2018-2023)
 - 10.2.3 Forecast Trend (2024-2032)
 - 10.3 France
 - 10.3.1 Market Share
 - 10.3.2 Historical Trend (2018-2023)
 - 10.3.3 Forecast Trend (2024-2032)
 - 10.4 Italy
 - 10.4.1 Market Share
 - 10.4.2 Historical Trend (2018-2023)
 - 10.4.3 Forecast Trend (2024-2032)
 - 10.5 Others
- 11 Asia Pacific Nanotechnology Market Analysis
 - 11.1 China
 - 11.1.1 Market Share
 - 11.1.2 Historical Trend (2018-2023)
 - 11.1.3 Forecast Trend (2024-2032)
 - 11.2 Japan
 - 11.2.1 Market Share
 - 11.2.2 Historical Trend (2018-2023)
 - 11.2.3 Forecast Trend (2024-2032)
 - 11.3 India
 - 11.3.1 Market Share
 - 11.3.2 Historical Trend (2018-2023)
 - 11.3.3 Forecast Trend (2024-2032)
 - 11.4 ASEAN
 - 11.4.1 Market Share
 - 11.4.2 Historical Trend (2018-2023)

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11.4.3 Forecast Trend (2024-2032)

11.5 Australia

- 11.5.1 Market Share
- 11.5.2 Historical Trend (2018-2023)
- 11.5.3 Forecast Trend (2024-2032)

11.6 Others

12 Latin America Nanotechnology Market Analysis

- 12.1 Brazil
 - 12.1.1 Market Share
 - 12.1.2 Historical Trend (2018-2023)
 - 12.1.3 Forecast Trend (2024-2032)
- 12.2 Argentina
 - 12.2.1 Market Share
 - 12.2.2 Historical Trend (2018-2023)
 - 12.2.3 Forecast Trend (2024-2032)
- 12.3 Mexico
 - 12.3.1 Market Share
 - 12.3.2 Historical Trend (2018-2023)
 - 12.3.3 Forecast Trend (2024-2032)
- 12.4 Others

13 Middle East and Africa Nanotechnology Market Analysis

- 13.1 Saudi Arabia
 - 13.1.1 Market Share
 - 13.1.2 Historical Trend (2018-2023)
 - 13.1.3 Forecast Trend (2024-2032)
- 13.2 United Arab Emirates
 - 13.2.1 Market Share
 - 13.2.2 Historical Trend (2018-2023)
 - 13.2.3 Forecast Trend (2024-2032)
- 13.3 Nigeria
 - 13.3.1 Market Share
 - 13.3.2 Historical Trend (2018-2023)
 - 13.3.3 Forecast Trend (2024-2032)
- 13.4 South Africa
 - 13.4.1 Market Share
 - 13.4.2 Historical Trend (2018-2023)
 - 13.4.3 Forecast Trend (2024-2032)
- 13.5 Others
- 14 Market Dynamics
 - 14.1 SWOT Analysis
 - 14.1.1 Strengths
 - 14.1.2 Weaknesses
 - 14.1.3 Opportunities
 - 14.1.4 Threats
 - 14.2 Porter's Five Forces Analysis
 - 14.2.1 Supplier's Power
 - 14.2.2 Buyer's Power

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- 14.2.3 Threat of New Entrants
- 14.2.4 Degree of Rivalry
- 14.2.5 Threat of Substitutes
- 14.3 Key Indicators for Demand
- 14.4 Key Indicators for Price
- 15 Value Chain Analysis
- 16 Competitive Landscape
 - 16.1 Market Structure
 - 16.2 Company Profiles
 - 16.2.1 Altair Nanotechnologies Inc.
 - 16.2.1.1 Company Overview
 - 16.2.1.2 Product Portfolio
 - 16.2.1.3 Demographic Reach and Achievements
 - 16.2.1.4 Certifications
 - 16.2.2 Applied Nanotech Inc
 - 16.2.2.1 Company Overview
 - 16.2.2.2 Product Portfolio
 - 16.2.2.3 Demographic Reach and Achievements
 - 16.2.2.4 Certifications
 - 16.2.3 Advanced Nano Products Co Ltd
 - 16.2.3.1 Company Overview
 - 16.2.3.2 Product Portfolio
 - 16.2.3.3 Demographic Reach and Achievements
 - 16.2.3.4 Certifications
 - 16.2.4 Bruker Corporation
 - 16.2.4.1 Company Overview
 - 16.2.4.2 Product Portfolio
 - 16.2.4.3 Demographic Reach and Achievements
 - 16.2.4.4 Certifications
 - 16.2.5 Biosensors International Group Ltd.
 - 16.2.5.1 Company Overview
 - 16.2.5.2 Product Portfolio
 - 16.2.5.3 Demographic Reach and Achievements
 - 16.2.5.4 Certifications
 - 16.2.6 Espin Technology Inc.
 - 16.2.6.1 Company Overview
 - 16.2.6.2 Product Portfolio
 - 16.2.6.3 Demographic Reach and Achievements
 - 16.2.6.4 Certifications
 - 16.2.7 Imina Technologies SA
 - 16.2.7.1 Company Overview
 - 16.2.7.2 Product Portfolio
 - 16.2.7.3 Demographic Reach and Achievements
 - 16.2.7.4 Certifications
 - 16.2.8 Nanonics Imaging Ltd.
 - 16.2.8.1 Company Overview
 - 16.2.8.2 Product Portfolio

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- 16.2.8.3 Demographic Reach and Achievements
- 16.2.8.4 Certifications
- 16.2.9 DuPont de Nemours, Inc.
 - 16.2.9.1 Company Overview
 - 16.2.9.2 Product Portfolio
 - 16.2.9.3 Demographic Reach and Achievements
 - 16.2.9.4 Certifications
- 16.2.10 Arkema Group
 - 16.2.10.1 Company Overview
 - 16.2.10.2 Product Portfolio
 - 16.2.10.3 Demographic Reach and Achievements
 - 16.2.10.4 Certifications
- 16.2.11 Others
- 17 Key Trends and Developments in the Market

List of Key Figures and Tables

- Global Nanotechnology Market: Key Industry Highlights, 2018 and 2032
- 2. Global Nanotechnology Historical Market: Breakup by Type (USD Billion), 2018-2023
- 3. Global Nanotechnology Market Forecast: Breakup by Type (USD Billion), 2024-2032
- 4. Global Nanotechnology Historical Market: Breakup by Application (USD Billion), 2018-2023
- 5. Global Nanotechnology Market Forecast: Breakup by Application (USD Billion), 2024-2032
- 6. Global Nanotechnology Historical Market: Breakup by Region (USD Billion), 2018-2023
- 7. Global Nanotechnology Market Forecast: Breakup by Region (USD Billion), 2024-2032
- 8. North America Nanotechnology Historical Market: Breakup by Country (USD Billion), 2018-2023
- 9. North America Nanotechnology Market Forecast: Breakup by Country (USD Billion), 2024-2032
- 10. Europe Nanotechnology Historical Market: Breakup by Country (USD Billion), 2018-2023
- 11. Europe Nanotechnology Market Forecast: Breakup by Country (USD Billion), 2024-2032
- 12. Asia Pacific Nanotechnology Historical Market: Breakup by Country (USD Billion), 2018-2023
- 13. Asia Pacific Nanotechnology Market Forecast: Breakup by Country (USD Billion), 2024-2032
- 14. Latin America Nanotechnology Historical Market: Breakup by Country (USD Billion), 2018-2023
- 15. Latin America Nanotechnology Market Forecast: Breakup by Country (USD Billion), 2024-2032
- 16. Middle East and Africa Nanotechnology Historical Market: Breakup by Country (USD Billion), 2018-2023
- 17. Middle East and Africa Nanotechnology Market Forecast: Breakup by Country (USD Billion), 2024-2032
- 18. Global Nanotechnology Market Structure



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