

# Global Nano Quantum Dots Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G0E5F9FE4EECEN.html>

Date: January 2024

Pages: 135

Price: US\$ 3,480.00 (Single User License)

ID: G0E5F9FE4EECEN

## Abstracts

According to our (Global Info Research) latest study, the global Nano Quantum Dots market size was valued at USD 218.8 million in 2023 and is forecast to a readjusted size of USD 983.1 million by 2030 with a CAGR of 23.9% during review period.

Quantum dots (QDs) are semiconductor particles a few nanometres in size, having optical and electronic properties that differ from larger particles due to quantum mechanics. In this report, we collect data of pure Nano Quantum Dots.

Global 5 largest manufacturers of Nano Quantum Dots are Samsung Electronics, Hansol Chemical, Merck, BOHR and Suzhou Xingshuo Nanotech, which make up over 68%. Among them, Samsung Electronics is the leader with about 22% market share. Asia-Pacific is the largest market, with a share about 91%, followed by North America and Europe, with the share about 5% and 2%. In terms of product type, Type II-VI (with Cd) occupy the largest share of the total market, about 50%. And in terms of product Application, the largest application is Displays, followed by Medical Devices.

The Global Info Research report includes an overview of the development of the Nano Quantum Dots industry chain, the market status of Displays (Type II-VI (with Cd), Type II-VI (Cd-free)), Medical Devices (Type II-VI (with Cd), Type II-VI (Cd-free)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Nano Quantum Dots.

Regionally, the report analyzes the Nano Quantum Dots markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global

Nano Quantum Dots market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Nano Quantum Dots market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Nano Quantum Dots industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Type II-VI (with Cd), Type II-VI (Cd-free)).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Nano Quantum Dots market.

**Regional Analysis:** The report involves examining the Nano Quantum Dots market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Nano Quantum Dots market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Nano Quantum Dots:

**Company Analysis:** Report covers individual Nano Quantum Dots manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and

attitudes towards Nano Quantum Dots This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Displays, Medical Devices).

**Technology Analysis:** Report covers specific technologies relevant to Nano Quantum Dots. It assesses the current state, advancements, and potential future developments in Nano Quantum Dots areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Nano Quantum Dots market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Nano Quantum Dots market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Type II-VI (with Cd)

Type II-VI (Cd-free)

Type III-V

Perovskite

Silicon

Carbon

Others

## Market segment by Application

Displays

Medical Devices

Solar Cells

Sensors

Others

## Major players covered

Samsung Electronics

Hansol Chemical

Merck

BOHR

Suzhou Xingshuo Nanotech

Nanosys, Inc.

American Elements

Xingzi New Material

Najing Tech

Nantong Veeyeei

Huada Nano

Nanoco

Yang-Ming Quantum Tech

Avantama

Wuhan Jiayuan

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nano Quantum Dots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nano Quantum Dots, with price, sales, revenue and global market share of Nano Quantum Dots from 2019 to 2024.

Chapter 3, the Nano Quantum Dots competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nano Quantum Dots breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Nano Quantum Dots market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nano Quantum Dots.

Chapter 14 and 15, to describe Nano Quantum Dots sales channel, distributors, customers, research findings and conclusion.

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