

Gold Nanoparticles Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global gold nanoparticles market size reached US\$ 4.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 10.0 Billion by 2028, exhibiting a growth rate (CAGR) of 12% during 2023-2028.

Gold nanoparticles, represented as AuNPs, are gold particles with a diameter of 1 to 100 nanometers (nm). They are majorly used in biomedical and biotechnological sciences for their large surface area and bio-inertness. They also have high electron conductivity, stability and solubility. These particles are manufactured in the form of nanospheres, nanocages, nanorods, nanoshells, nanocubes and nanoclusters and find extensive application in targeted drug administration and as agents in biomolecules delivery. Gold nanoparticles are also utilized as optical imaging probes for detection of biomarkers of various diseases and in imaging procedures such as positron emission tomography (PET), computed tomography (CT), magnetic resonance imaging (MRI) and ultrasound scans.

Gold Nanoparticles Market Trends:

The growing medical industry, along with the growing demand for nanotechnological medical products, represent as the key factors driving the growth of the market. Gold nanoparticles are increasingly being used in the medical industry, especially in the dental sector, for various purposes including target imaging for cancer therapy and dental filling. Furthermore, the flourishing electronics industry is also significantly contributing to the market growth as these nanoparticles are extensively utilized to produce inks used in storage devices, hard disks and microchips. They are also used in the manufacturing of thin-film transistors and photo-sensors. Additionally, the food and beverage industry widely utilize colorimetric sensors that are manufactured using these

particles. These sensors assist in detecting the freshness and consumability of food products. Various technological advancements, such as the development of injectable plant plastids to enhance biosynthesis and extensive research and development (R&D), are also driving the market further.

Key Market Segmentation:

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

Breakup by Type:

- Water Soluble
- Oil Soluble
- Others

Breakup by Application:

- Imaging
- Targeted Drug Delivery
- Sensors
- In Vitro Diagnostics
- Probes
- Catalysis
- Others

Breakup by End-Use Industry:

- Electronics
- Healthcare
- Chemicals
- Others

Breakup by Region:

- 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 with some of the key players being Agilent Technologies, BBI Solutions, Cline Scientific, Cytodiagnosics, Expedeon, Goldsol, Meliorum Technologies, Merck Group, Metalor Technologies International, Nanocomposix, NanoHybrids, Nanopartz, Sigma-Aldrich, Solaris Nanosciences Corporation, Tanaka Kikinzoku, etc.

Key Questions Answered in This Report:

How has the global gold nanoparticles market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global gold nanoparticles market?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end-use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global gold nanoparticles market and who are the key players?

What is the degree of competition in the industry?

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 GOLD NANOPARTICLES MARKET

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

6 MARKET BREAKUP BY TYPE

- 6.1 Water Soluble
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Oil Soluble
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Imaging

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Targeted Drug Delivery

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Sensors

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 In Vitro Diagnostics

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Probes

7.5.1 Market Trends

7.5.2 Market Forecast

7.6 Catalysis

7.6.1 Market Trends

7.6.2 Market Forecast

7.7 Others

7.7.1 Market Trends

7.7.2 Market Forecast

8 MARKET BREAKUP BY END-USE INDUSTRY

8.1 Electronics

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Healthcare

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Chemicals

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Others

8.4.1 Market Trends

8.4.2 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 INDICATORS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Agilent Technologies
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 BBI Solutions
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Cline Scientific
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 Cytodiagnosics
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.5 Expedeon
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Goldsol
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio

- 14.3.7 Meliorum Technologies
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Merck Group
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Metalor Technologies International
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Nanocomposix
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
- 14.3.11 NanoHybrids
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
- 14.3.12 Nanopartz
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
- 14.3.13 Sigma-Aldrich
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio
- 14.3.14 Solaris Nanosciences Corporation
 - 14.3.14.1 Company Overview
 - 14.3.14.2 Product Portfolio
- 14.3.15 Tanaka Kikinzoku
 - 14.3.15.1 Company Overview
 - 14.3.15.2 Product Portfolio

List Of Tables

LIST OF TABLES

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

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

Table 3: Global: Gold Nanoparticles Market Forecast: Breakup by Application (in Million US\$), 2023-2028

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

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

Table 6: Global: Gold Nanoparticles Market: Competitive Structure

Table 7: Global: Gold Nanoparticles Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Gold Nanoparticles Market: Major Drivers and Challenges
- Figure 2: Global: Gold Nanoparticles Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Gold Nanoparticles Market: Breakup by Type (in %), 2022
- Figure 4: Global: Gold Nanoparticles Market: Breakup by Application (in %), 2022
- Figure 5: Global: Gold Nanoparticles Market: Breakup by End-Use Industry (in %), 2022
- Figure 6: Global: Gold Nanoparticles Market: Breakup by Region (in %), 2022
- Figure 7: Global: Gold Nanoparticles Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 8: Global: Gold Nanoparticles (Water Soluble) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 9: Global: Gold Nanoparticles (Water Soluble) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 10: Global: Gold Nanoparticles (Oil Soluble) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 11: Global: Gold Nanoparticles (Oil Soluble) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 12: Global: Gold Nanoparticles (Others) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Gold Nanoparticles (Others) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Gold Nanoparticles (Imaging) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Gold Nanoparticles (Imaging) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Gold Nanoparticles (Targeted Drug Delivery) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Gold Nanoparticles (Targeted Drug Delivery) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Gold Nanoparticles (Sensors) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Gold Nanoparticles (Sensors) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Gold Nanoparticles (In Vitro Diagnostics) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 21: Global: Gold Nanoparticles (In Vitro Diagnostics) Market Forecast: Sales

Value (in Million US\$), 2023-2028

Figure 22: Global: Gold Nanoparticles (Probes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Gold Nanoparticles (Probes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Gold Nanoparticles (Catalysis) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Gold Nanoparticles (Catalysis) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Gold Nanoparticles (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Gold Nanoparticles (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Gold Nanoparticles (Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Gold Nanoparticles (Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Gold Nanoparticles (Healthcare) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Gold Nanoparticles (Healthcare) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Gold Nanoparticles (Chemicals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Gold Nanoparticles (Chemicals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Gold Nanoparticles (Other Industries) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Gold Nanoparticles (Other Industries) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: North America: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: North America: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: United States: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: United States: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Canada: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Canada: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Asia Pacific: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Asia Pacific: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: China: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: China: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Japan: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Japan: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: India: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: India: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: South Korea: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: South Korea: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Australia: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Australia: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Indonesia: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Indonesia: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Others: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Others: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Europe: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Europe: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Germany: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Germany: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 62: France: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: France: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: United Kingdom: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: United Kingdom: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Italy: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Italy: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Spain: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Spain: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Russia: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Russia: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Others: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Others: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Latin America: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Latin America: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Brazil: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Brazil: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Mexico: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Mexico: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Others: Gold Nanoparticles Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Others: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Middle East and Africa: Gold Nanoparticles Market: Sales Value (in Million

US\$), 2017 & 2022

Figure 83: Middle East and Africa: Gold Nanoparticles Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Global: Gold Nanoparticles Industry: SWOT Analysis

Figure 85: Global: Gold Nanoparticles Industry: Value Chain Analysis

Figure 86: Global: Gold Nanoparticles Industry: Porter's Five Forces Analysis

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