

Asia Pacific Quantum Dots (QD) Market 2021-2031 by Offering (QD Products, QD Materials), Production Technology, Industry Vertical, and Country: Trend Forecast and Growth Opportunity

<https://marketpublishers.com/r/A08EB82964EBEN.html>

Date: November 2022

Pages: 117

Price: US\$ 2,210.00 (Single User License)

ID: A08EB82964EBEN

Abstracts

Asia Pacific quantum dots (QD) market will grow by 26.4% annually with a total addressable market cap of \$44,655.2 million over 2022-2031, driven by the increasing demand for quantum dots in display devices, advancing features of quantum dots, and the diverse applications of quantum dots in various industries.

Highlighted with 28 tables and 55 figures, this 117-page report “Asia Pacific Quantum Dots (QD) Market 2021-2031 by Offering (QD Products, QD Materials), Production Technology, Industry Vertical, and Country: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire Asia Pacific quantum dots (QD) market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2019-2021 and provides forecast from 2022 till 2031 with 2021 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of Asia Pacific market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify Asia Pacific quantum dots (QD) market in every aspect of the classification from perspectives of Offering, Production Technology, Industry Vertical, and Country.

Based on Offering, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

QD Products

QD Displays

QD LCDs/QDEFs (Quantum Dot Enhancement Films)

QD Color Filters

Self-Emitting QD TVs/True QLEDs

QD Medical Devices

QD Photodetectors/QD Sensors

QD Lasers

QD Lighting (LED) Solutions

Batteries and Energy Storage Systems

QD Solar Cells

QD Transistors

QD Chips and Tags

QD Materials

Cadmium-Based QD (Cadmium Selenide, Cadmium Sulphide and Cadmium Telluride)

Cadmium-Free QD (Indium Arsenide, Silicon, Graphene, Lead Sulphide and Perovskite Quantum Dots)

Based on Production Technology, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Colloidal Synthesis

Plasma Synthesis

Fabrication

Lithography

Electron-Beam Lithography

Soft Lithography

Stencil Lithography

Nanolithography

Photopatternable Array

Bio-Molecular Self-Assembly

Viral Assembly

Electrochemical Assembly

Bulk Manufacturing

By Industry Vertical, the Asia Pacific market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Consumer Electronics

Corporate

Retail

Telecommunication

Healthcare and Medical

Biological Imaging

Cellular Labelling

DNA Labelling

QD-Based Cancer Diagnosis

Military and Defense

Manufacturing

Automotive and Transportation

Agriculture

Other Verticals

Geographically, the following national/local markets are fully investigated:

Japan

China

South Korea

Australia

India

Rest of APAC (further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

For each key country, detailed analysis and data for annual revenue (\$mn) are available for 2021-2031. The breakdown of national markets by Offering and Industry Vertical over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

3M Company

Crystalplex Corporation

Innolume GmbH

LG Display Co., Ltd.

Nanoco Group Plc

Nanoco Technologies Ltd.

NanoPhotonica Inc.

Nanosys Inc.

Navillum Nanotechnologies, Inc.

NN-LABS LLC

Ocean Nanotech LLC

Osram Licht AG

QD Laser, Inc.

Quantum Material Corporation

Quantum Solutions LLC

Samsung Electronics Co., Ltd.

Sony Corporation

UbiQD, Inc.

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

Contents

1 INTRODUCTION

- 1.1 Industry Definition and Research Scope
 - 1.1.1 Industry Definition
 - 1.1.2 Research Scope
- 1.2 Research Methodology
 - 1.2.1 Overview of Market Research Methodology
 - 1.2.2 Market Assumption
 - 1.2.3 Secondary Data
 - 1.2.4 Primary Data
 - 1.2.5 Data Filtration and Model Design
 - 1.2.6 Market Size/Share Estimation
 - 1.2.7 Research Limitations
- 1.3 Executive Summary

2 MARKET OVERVIEW AND DYNAMICS

- 2.1 Market Size and Forecast
 - 2.1.1 Impact of COVID-19 on World Economy
 - 2.1.2 Impact of COVID-19 on the Market
- 2.2 Major Growth Drivers
- 2.3 Market Restraints and Challenges
- 2.4 Emerging Opportunities and Market Trends
- 2.5 Porter's Fiver Forces Analysis

3 SEGMENTATION OF ASIA PACIFIC MARKET BY OFFERING

- 3.1 Market Overview by Offering
- 3.2 QD Products
 - 3.2.1 QD Displays
 - 3.2.2 QD Medical Devices
 - 3.2.3 QD Photodetectors/QD Sensors
 - 3.2.4 QD Lasers
 - 3.2.5 QD Lighting (LED) Solutions
 - 3.2.6 Batteries and Energy Storage Systems
 - 3.2.7 QD Solar Cells
 - 3.2.8 QD Transistors

- 3.2.9 QD Chips and Tags
- 3.3 QD Materials
 - 3.3.1 Cadmium-Based QD
 - 3.3.2 Cadmium-Free QD

4 SEGMENTATION OF ASIA PACIFIC MARKET BY PRODUCTION TECHNOLOGY

- 4.1 Market Overview by Production Technology
- 4.2 Colloidal Synthesis
- 4.3 Plasma Synthesis
- 4.4 Fabrication
- 4.5 Bio-Molecular Self-Assembly
- 4.6 Viral Assembly
- 4.7 Electrochemical Assembly
- 4.8 Bulk Manufacturing
- 4.9 Production Technology 8

5 SEGMENTATION OF ASIA PACIFIC MARKET BY INDUSTRY VERTICAL

- 5.1 Market Overview by Industry Vertical
- 5.2 Consumer Electronics
- 5.3 Corporate
- 5.4 Retail
- 5.5 Telecommunication
- 5.6 Healthcare and Medical
- 5.7 Military and Defense
- 5.8 Manufacturing
- 5.9 Automotive and Transportation
- 5.10 Agriculture
- 5.11 Other Verticals

6 ASIA-PACIFIC MARKET 2021-2031 BY COUNTRY

- 6.1 Overview of Asia-Pacific Market
- 6.2 Japan
- 6.3 China
- 6.4 Australia
- 6.5 India
- 6.6 South Korea

6.7 Rest of APAC Region

7 COMPETITIVE LANDSCAPE

7.1 Overview of Key Vendors

7.2 New Product Launch, Partnership, Investment, and M&A

7.3 Company Profiles

3M COMPANY

Crystalplex Corporation

Innolume GmbH

LG Display Co., Ltd.

Nanoco Group Plc

Nanoco Technologies Ltd.

NanoPhotonica Inc.

Nanosys Inc.

Navillum Nanotechnologies, Inc.

NN-LABS LLC

Ocean Nanotech LLC

Osram Licht AG

QD Laser, Inc.

Quantum Material Corporation

Quantum Solutions LLC

Samsung Electronics Co., Ltd.

Sony Corporation

UbiQD, Inc.

RELATED REPORTS

List Of Tables

LIST OF TABLES:

Table 1. Snapshot of Asia Pacific Quantum Dots Market in Balanced Perspective, 2021-2031

Table 2. World Economic Outlook, 2021-2031

Table 3. Main Product Trends and Market Opportunities in Asia Pacific Quantum Dots Market

Table 4. Asia Pacific Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 5. Asia Pacific Quantum Dots Market: QD Products by Type, 2021-2031, \$ mn

Table 6. Asia Pacific Quantum Dots Market: QD Displays by Type, 2021-2031, \$ mn

Table 7. Asia Pacific Quantum Dots Market: QD Materials by Type, 2021-2031, \$ mn

Table 8. Asia Pacific Quantum Dots Market: Cadmium-Based QD by Type, 2021-2031, \$ mn

Table 9. Asia Pacific Quantum Dots Market: Cadmium-Free QD by Type, 2021-2031, \$ mn

Table 10. Asia Pacific Quantum Dots Market by Production Technology, 2021-2031, \$ mn

Table 11. Asia Pacific Quantum Dots Market: Fabrication by Type, 2021-2031, \$ mn

Table 12. Asia Pacific Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 13. Asia Pacific Quantum Dots Market: Healthcare and Medical Application by Type, 2021-2031, \$ mn

Table 14. APAC Quantum Dots Market by Country, 2021-2031, \$ mn

Table 15. Japan Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 16. Japan Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 17. China Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 18. China Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 19. Australia Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 20. Australia Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 21. India Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 22. India Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 23. South Korea Quantum Dots Market by Offering, 2021-2031, \$ mn

Table 24. South Korea Quantum Dots Market by Industry Vertical, 2021-2031, \$ mn

Table 25. Quantum Dots Market in Rest of APAC by Country/Region, 2021-2031, \$ mn

Table 26. 3M Company: Company Snapshot

Table 27. 3M Company: Business Segmentation

Table 28. 3M Company: Product Portfolio

List Of Figures

LIST OF FIGURES:

Figure 1. Research Method Flow Chart

Figure 2. Bottom-up Approach and Top-down Approach for Market Estimation

Figure 3. Asia Pacific Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2021-2031

Figure 4. Asia Pacific Quantum Dots Market, 2021-2031, \$ mn

Figure 5. Impact of COVID-19 on Business

Figure 6. Primary Drivers and Impact Factors of Asia Pacific Quantum Dots Market

Figure 7. Primary Restraints and Impact Factors of Asia Pacific Quantum Dots Market

Figure 8. Investment Opportunity Analysis

Figure 9. Porter's Five Forces Analysis of Asia Pacific Quantum Dots Market

Figure 10. Breakdown of Asia Pacific Quantum Dots Market by Offering, 2021-2031, % of Revenue

Figure 11. Asia Pacific Addressable Market Cap in 2022-2031 by Offering, Value (\$ mn) and Share (%)

Figure 12. Asia Pacific Quantum Dots Market by Offering: QD Products, 2021-2031, \$ mn

Figure 13. Asia Pacific Quantum Dots Market by QD Products: QD Displays, 2021-2031, \$ mn

Figure 14. Asia Pacific Quantum Dots Market by QD Products: QD Medical Devices, 2021-2031, \$ mn

Figure 15. Asia Pacific Quantum Dots Market by QD Products: QD Photodetectors/QD Sensors, 2021-2031, \$ mn

Figure 16. Asia Pacific Quantum Dots Market by QD Products: QD Lasers, 2021-2031, \$ mn

Figure 17. Asia Pacific Quantum Dots Market by QD Products: QD Lighting (LED) Solutions, 2021-2031, \$ mn

Figure 18. Asia Pacific Quantum Dots Market by QD Products: Batteries and Energy Storage Systems, 2021-2031, \$ mn

Figure 19. Asia Pacific Quantum Dots Market by QD Products: QD Solar Cells, 2021-2031, \$ mn

Figure 20. Asia Pacific Quantum Dots Market by QD Products: QD Transistors, 2021-2031, \$ mn

Figure 21. Asia Pacific Quantum Dots Market by QD Products: QD Chips and Tags, 2021-2031, \$ mn

Figure 22. Asia Pacific Quantum Dots Market by Offering: QD Materials, 2021-2031, \$

mn

Figure 23. Asia Pacific Quantum Dots Market by QD Materials: Cadmium-Based QD, 2021-2031, \$ mn

Figure 24. Asia Pacific Quantum Dots Market by QD Materials: Cadmium-Free QD, 2021-2031, \$ mn

Figure 25. Breakdown of Asia Pacific Quantum Dots Market by Production Technology, 2021-2031, % of Sales Revenue

Figure 26. Asia Pacific Addressable Market Cap in 2022-2031 by Production Technology, Value (\$ mn) and Share (%)

Figure 27. Asia Pacific Quantum Dots Market by Production Technology: Colloidal Synthesis, 2021-2031, \$ mn

Figure 28. Asia Pacific Quantum Dots Market by Production Technology: Plasma Synthesis, 2021-2031, \$ mn

Figure 29. Asia Pacific Quantum Dots Market by Production Technology: Fabrication, 2021-2031, \$ mn

Figure 30. Asia Pacific Quantum Dots Market by Production Technology: Bio-Molecular Self-Assembly, 2021-2031, \$ mn

Figure 31. Asia Pacific Quantum Dots Market by Production Technology: Viral Assembly, 2021-2031, \$ mn

Figure 32. Asia Pacific Quantum Dots Market by Production Technology: Electrochemical Assembly, 2021-2031, \$ mn

Figure 33. Asia Pacific Quantum Dots Market by Production Technology: Bulk Manufacturing, 2021-2031, \$ mn

Figure 34. Asia Pacific Quantum Dots Market by Production Technology: Production Technology 8, 2021-2031, \$ mn

Figure 35. Breakdown of Asia Pacific Quantum Dots Market by Industry Vertical, 2021-2031, % of Sales Revenue

Figure 36. Asia Pacific Addressable Market Cap in 2022-2031 by Industry Vertical, Value (\$ mn) and Share (%)

Figure 37. Asia Pacific Quantum Dots Market by Industry Vertical: Consumer Electronics, 2021-2031, \$ mn

Figure 38. Asia Pacific Quantum Dots Market by Industry Vertical: Corporate, 2021-2031, \$ mn

Figure 39. Asia Pacific Quantum Dots Market by Industry Vertical: Retail, 2021-2031, \$ mn

Figure 40. Asia Pacific Quantum Dots Market by Industry Vertical: Telecommunication, 2021-2031, \$ mn

Figure 41. Asia Pacific Quantum Dots Market by Industry Vertical: Healthcare and Medical, 2021-2031, \$ mn

Figure 42. Asia Pacific Quantum Dots Market by Industry Vertical: Military and Defense, 2021-2031, \$ mn

Figure 43. Asia Pacific Quantum Dots Market by Industry Vertical: Manufacturing, 2021-2031, \$ mn

Figure 44. Asia Pacific Quantum Dots Market by Industry Vertical: Automotive and Transportation, 2021-2031, \$ mn

Figure 45. Asia Pacific Quantum Dots Market by Industry Vertical: Agriculture, 2021-2031, \$ mn

Figure 46. Asia Pacific Quantum Dots Market by Industry Vertical: Other Verticals, 2021-2031, \$ mn

Figure 47. Breakdown of APAC Quantum Dots Market by Country, 2021 and 2031, % of Revenue

Figure 48. Contribution to APAC 2022-2031 Cumulative Market by Country, Value (\$ mn) and Share (%)

Figure 49. Quantum Dots Market in Japan, 2021-2031, \$ mn

Figure 50. Quantum Dots Market in China, 2021-2031, \$ mn

Figure 51. Quantum Dots Market in Australia, 2021-2031, \$ mn

Figure 52. Quantum Dots Market in India, 2021-2031, \$ mn

Figure 53. Quantum Dots Market in South Korea, 2021-2031, \$ mn

Figure 54. Quantum Dots Market in Rest of APAC, 2021-2031, \$ mn

Figure 55. Growth Stage of Asia Pacific Quantum Dots Industry over the Forecast Period

I would like to order

Product name: Asia Pacific Quantum Dots (QD) Market 2021-2031 by Offering (QD Products, QD Materials), Production Technology, Industry Vertical, and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/A08EB82964EBEN.html>

Price: US\$ 2,210.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A08EB82964EBEN.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