

# Cathode Materials - Global Market Outlook (2017-2026)

<https://marketpublishers.com/r/C0868A97D26EN.html>

Date: June 2018

Pages: 182

Price: US\$ 4,150.00 (Single User License)

ID: C0868A97D26EN

## Abstracts

According to Statistics MRC, the Global Cathode Materials market is accounted for \$15.19 billion in 2017 and is expected to reach \$28.41 billion by 2026 growing at a CAGR of 7.2% during the forecast period. The growth of this market is mainly driven by increasing demand for consumer electronics, increasing adoption of Lithium-ion cathode technology in the renewable energy industry and advancements in the batteries for energy storing devices. However, Safety issues related to cathode materials is hampering the market growth.

Cathode materials are more often used in the batteries along with several other carbon related cathodes such as carbon nano tubes (CNT), carbon nanofiber, and mesocellular carbon foam. It enhances the decomposition of electrolyte in discharging battery.

On the basis of material, Li-Ion Cathode materials widely compelled as the power or energy maker for everything from portable electronics to electric vehicles. Cathode materials have a tendency of undergoing oxidation/reduction reactions using electrochemical systems by allowing a spontaneous oxidation reaction at the surface while sending electrons to the positive electrode through an external circuit, causing a reduction reaction.

Asia pacific is currently the largest market and is expected to dominate over the forecast period owing to its demand from various verticals for battery energy systems and the increasing battery consumers and also driven by growing demand for electrified vehicles, including BEVs, PHEVs, and HEVs.

Some of the keyplayers of the market are Umicore, Toda Kogyo Corp., Sumitomo Corporation, Showa Denko, Pulead Technology Industry, Posco, Nichia Corporation, Nei Corporation, Mitsui Mining & Smelting Company, Mitsubishi Chemical Holdings, L&F, Kureha Corporation, Johnson Matthey, Hitachi Chemical, Gravita India, DOW

Chemical, BASF, and 3M

Materials Covered:

Active materials

Binders

Foils

Li-Ion Cathode Materials

Lead-Acid Cathode Materials

Other Cathode Materials

Battery Types Covered:

Li-Ion

Lead-Acid

Other Battery Types

Applications Covered:

Electronics

Energy Storage System

Power Tools

Automotive

Regions Covered:

## North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 Emerging Markets
- 3.8 Futuristic Market Scenario

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL CATHODE MATERIALS MARKET, BY MATERIAL**

- 5.1 Introduction
- 5.2 Active materials
- 5.3 Binders
- 5.4 Foils
- 5.5 Li-Ion Cathode Materials
  - 5.5.1 Lithium Nickel Manganese Cobalt (NMC)
  - 5.5.2 Lithium Nickel Cobalt Aluminum (NCA)
  - 5.5.3 Lithium Manganese Oxide (LMO)
  - 5.5.4 Lithium Iron Phosphate (LFP)
  - 5.5.5 Lithium Cobalt Oxide (LCO)
  - 5.5.6 Cathode Materials of Li-Ion Battery
- 5.6 Lead-Acid Cathode Materials
- 5.7 Other Cathode Materials

## **6 GLOBAL CATHODE MATERIALS MARKET, BY BATTERY TYPE**

- 6.1 Introduction
- 6.2 Li-Ion
- 6.3 Lead-Acid
- 6.4 Other Battery Types

## **7 GLOBAL CATHODE MATERIALS MARKET, BY APPLICATION**

- 7.1 Introduction
- 7.2 Electronics
- 7.3 Energy Storage System
  - 7.3.1 Residential
  - 7.3.2 Grid Storage
  - 7.3.3 Telecom Towers
  - 7.3.4 Other Industrial
- 7.4 Power Tools
- 7.5 Automotive
  - 7.5.1 Plug-in Hybrid Electric Vehicle (PHEV)
  - 7.5.2 Battery Electric Vehicles (BEV)
  - 7.5.3 Hybrid Electric Vehicle (HEV)

## **8 GLOBAL CATHODE MATERIALS MARKET, BY GEOGRAPHY**

- 8.1 Introduction
- 8.2 North America
  - 8.2.1 US
  - 8.2.2 Canada
  - 8.2.3 Mexico
- 8.3 Europe
  - 8.3.1 Germany
  - 8.3.2 UK
  - 8.3.3 Italy
  - 8.3.4 France
  - 8.3.5 Spain
  - 8.3.6 Rest of Europe
- 8.4 Asia Pacific
  - 8.4.1 Japan
  - 8.4.2 China
  - 8.4.3 India
  - 8.4.4 Australia
  - 8.4.5 New Zealand
  - 8.4.6 South Korea
  - 8.4.7 Rest of Asia Pacific
- 8.5 South America
  - 8.5.1 Argentina
  - 8.5.2 Brazil
  - 8.5.3 Chile
  - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
  - 8.6.1 Saudi Arabia
  - 8.6.2 UAE
  - 8.6.3 Qatar
  - 8.6.4 South Africa
  - 8.6.5 Rest of Middle East & Africa

## **9 KEY DEVELOPMENTS**

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies



## **10 COMPANY PROFILING**

- 10.1 Umicore
- 10.2 Toda Kogyo Corp.
- 10.3 Sumitomo Corporation
- 10.4 Showa Denko
- 10.5 Pulead Technology Industry
- 10.6 Posco
- 10.7 Nichia Corporation
- 10.8 Nei Corporation
- 10.9 Mitsui Mining & Smelting Company
- 10.10 Mitsubishi Chemical Holdings
- 10.11 L&F
- 10.12 Kureha Corporation
- 10.13 Johnson Matthey
- 10.14 Hitachi Chemical
- 10.15 Gravita India
- 10.16 DOW Chemical
- 10.17 BASF
- 10.18 3M

## List Of Tables

### LIST OF TABLES

Table 1 Global Cathode Materials Market Outlook, By Region (2016-2026) (\$MN)

Table 2 Global Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)

Table 3 Global Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)

Table 4 Global Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)

Table 5 Global Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)

Table 6 Global Cathode Materials Market Outlook, By Li-Ion Cathode Materials (2016-2026) (\$MN)

Table 7 Global Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 8 Global Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 9 Global Cathode Materials Market Outlook, By Lithium Manganese Oxide (LMO) (2016-2026) (\$MN)

Table 10 Global Cathode Materials Market Outlook, By Lithium Iron Phosphate (LFP) (2016-2026) (\$MN)

Table 11 Global Cathode Materials Market Outlook, By Lithium Cobalt Oxide (LCO) (2016-2026) (\$MN)

Table 12 Global Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 13 Global Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 14 Global Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

Table 15 Global Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)

Table 16 Global Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)

Table 17 Global Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)

Table 18 Global Cathode Materials Market Outlook, By Other Battery Types (2016-2026) (\$MN)

Table 19 Global Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)

Table 20 Global Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)

Table 21 Global Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)

Table 22 Global Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)

Table 23 Global Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)

Table 24 Global Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)

Table 25 Global Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)

Table 26 Global Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)

Table 27 Global Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)

Table 28 Global Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)

Table 29 Global Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)

Table 30 Global Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)

Table 31 North America Cathode Materials Market Outlook, By Country (2016-2026) (\$MN)

Table 32 North America Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)

Table 33 North America Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)

Table 34 North America Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)

Table 35 North America Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)

Table 36 North America Cathode Materials Market Outlook, By Li-Ion Cathode Materials (2016-2026) (\$MN)

Table 37 North America Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 38 North America Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 39 North America Cathode Materials Market Outlook, By Lithium Manganese Oxide (LMO) (2016-2026) (\$MN)

Table 40 North America Cathode Materials Market Outlook, By Lithium Iron Phosphate (LFP) (2016-2026) (\$MN)

Table 41 North America Cathode Materials Market Outlook, By Lithium Cobalt Oxide (LCO) (2016-2026) (\$MN)

Table 42 North America Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 43 North America Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 44 North America Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

- Table 45 North America Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)
- Table 46 North America Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)
- Table 47 North America Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)
- Table 48 North America Cathode Materials Market Outlook, By Other Battery Types (2016-2026) (\$MN)
- Table 49 North America Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)
- Table 50 North America Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)
- Table 51 North America Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)
- Table 52 North America Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)
- Table 53 North America Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)
- Table 54 North America Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)
- Table 55 North America Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)
- Table 56 North America Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)
- Table 57 North America Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)
- Table 58 North America Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)
- Table 59 North America Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)
- Table 60 North America Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)
- Table 61 Europe Cathode Materials Market Outlook, By Country (2016-2026) (\$MN)
- Table 62 Europe Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)
- Table 63 Europe Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)
- Table 64 Europe Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)
- Table 65 Europe Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)
- Table 66 Europe Cathode Materials Market Outlook, By Li-Ion Cathode Materials

(2016-2026) (\$MN)

Table 67 Europe Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 68 Europe Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 69 Europe Cathode Materials Market Outlook, By Lithium Manganese Oxide (LMO) (2016-2026) (\$MN)

Table 70 Europe Cathode Materials Market Outlook, By Lithium Iron Phosphate (LFP) (2016-2026) (\$MN)

Table 71 Europe Cathode Materials Market Outlook, By Lithium Cobalt Oxide (LCO) (2016-2026) (\$MN)

Table 72 Europe Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 73 Europe Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 74 Europe Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

Table 75 Europe Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)

Table 76 Europe Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)

Table 77 Europe Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)

Table 78 Europe Cathode Materials Market Outlook, By Other Battery Types (2016-2026) (\$MN)

Table 79 Europe Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)

Table 80 Europe Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)

Table 81 Europe Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)

Table 82 Europe Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)

Table 83 Europe Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)

Table 84 Europe Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)

Table 85 Europe Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)

Table 86 Europe Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)

Table 87 Europe Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)

Table 88 Europe Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)

Table 89 Europe Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)

Table 90 Europe Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)

Table 91 Asia Pacific Cathode Materials Market Outlook, By Country (2016-2026) (\$MN)

Table 92 Asia Pacific Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)

Table 93 Asia Pacific Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)

Table 94 Asia Pacific Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)

Table 95 Asia Pacific Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)

Table 96 Asia Pacific Cathode Materials Market Outlook, By Li-Ion Cathode Materials (2016-2026) (\$MN)

Table 97 Asia Pacific Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 98 Asia Pacific Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 99 Asia Pacific Cathode Materials Market Outlook, By Lithium Manganese Oxide (LMO) (2016-2026) (\$MN)

Table 100 Asia Pacific Cathode Materials Market Outlook, By Lithium Iron Phosphate (LFP) (2016-2026) (\$MN)

Table 101 Asia Pacific Cathode Materials Market Outlook, By Lithium Cobalt Oxide (LCO) (2016-2026) (\$MN)

Table 102 Asia Pacific Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 103 Asia Pacific Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 104 Asia Pacific Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

Table 105 Asia Pacific Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)

Table 106 Asia Pacific Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)

Table 107 Asia Pacific Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)

Table 108 Asia Pacific Cathode Materials Market Outlook, By Other Battery Types (2016-2026) (\$MN)

Table 109 Asia Pacific Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)

Table 110 Asia Pacific Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)

Table 111 Asia Pacific Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)

Table 112 Asia Pacific Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)

Table 113 Asia Pacific Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)

Table 114 Asia Pacific Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)

Table 115 Asia Pacific Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)

Table 116 Asia Pacific Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)

Table 117 Asia Pacific Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)

Table 118 Asia Pacific Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)

Table 119 Asia Pacific Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)

Table 120 Asia Pacific Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)

Table 121 South America Cathode Materials Market Outlook, By Country (2016-2026) (\$MN)

Table 122 South America Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)

Table 123 South America Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)

Table 124 South America Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)

Table 125 South America Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)

Table 126 South America Cathode Materials Market Outlook, By Li-Ion Cathode Materials (2016-2026) (\$MN)

Table 127 South America Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 128 South America Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 129 South America Cathode Materials Market Outlook, By Lithium Manganese

Oxide (LMO) (2016-2026) (\$MN)

Table 130 South America Cathode Materials Market Outlook, By Lithium Iron

Phosphate (LFP) (2016-2026) (\$MN)

Table 131 South America Cathode Materials Market Outlook, By Lithium Cobalt Oxide

(LCO) (2016-2026) (\$MN)

Table 132 South America Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 133 South America Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 134 South America Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

Table 135 South America Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)

Table 136 South America Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)

Table 137 South America Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)

Table 138 South America Cathode Materials Market Outlook, By Other Battery Types (2016-2026) (\$MN)

Table 139 South America Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)

Table 140 South America Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)

Table 141 South America Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)

Table 142 South America Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)

Table 143 South America Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)

Table 144 South America Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)

Table 145 South America Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)

Table 146 South America Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)

Table 147 South America Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)

Table 148 South America Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)



Table 149 South America Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)

Table 150 South America Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)

Table 151 Middle East & Africa Cathode Materials Market Outlook, By Country (2016-2026) (\$MN)

Table 152 Middle East & Africa Cathode Materials Market Outlook, By Material (2016-2026) (\$MN)

Table 153 Middle East & Africa Cathode Materials Market Outlook, By Active materials (2016-2026) (\$MN)

Table 154 Middle East & Africa Cathode Materials Market Outlook, By Binders (2016-2026) (\$MN)

Table 155 Middle East & Africa Cathode Materials Market Outlook, By Foils (2016-2026) (\$MN)

Table 156 Middle East & Africa Cathode Materials Market Outlook, By Li-Ion Cathode Materials (2016-2026) (\$MN)

Table 157 Middle East & Africa Cathode Materials Market Outlook, By Lithium Nickel Manganese Cobalt (NMC) (2016-2026) (\$MN)

Table 158 Middle East & Africa Cathode Materials Market Outlook, By Lithium Nickel Cobalt Aluminum (NCA) (2016-2026) (\$MN)

Table 159 Middle East & Africa Cathode Materials Market Outlook, By Lithium Manganese Oxide (LMO) (2016-2026) (\$MN)

Table 160 Middle East & Africa Cathode Materials Market Outlook, By Lithium Iron Phosphate (LFP) (2016-2026) (\$MN)

Table 161 Middle East & Africa Cathode Materials Market Outlook, By Lithium Cobalt Oxide (LCO) (2016-2026) (\$MN)

Table 162 Middle East & Africa Cathode Materials Market Outlook, By Cathode Materials of Li-Ion Battery (2016-2026) (\$MN)

Table 163 Middle East & Africa Cathode Materials Market Outlook, By Lead-Acid Cathode Materials (2016-2026) (\$MN)

Table 164 Middle East & Africa Cathode Materials Market Outlook, By Other Cathode Materials (2016-2026) (\$MN)

Table 165 Middle East & Africa Cathode Materials Market Outlook, By Battery Type (2016-2026) (\$MN)

Table 166 Middle East & Africa Cathode Materials Market Outlook, By Li-Ion (2016-2026) (\$MN)

Table 167 Middle East & Africa Cathode Materials Market Outlook, By Lead-Acid (2016-2026) (\$MN)

Table 168 Middle East & Africa Cathode Materials Market Outlook, By Other Battery

Types (2016-2026) (\$MN)

Table 169 Middle East & Africa Cathode Materials Market Outlook, By Application (2016-2026) (\$MN)

Table 170 Middle East & Africa Cathode Materials Market Outlook, By Electronics (2016-2026) (\$MN)

Table 171 Middle East & Africa Cathode Materials Market Outlook, By Energy Storage System (2016-2026) (\$MN)

Table 172 Middle East & Africa Cathode Materials Market Outlook, By Residential (2016-2026) (\$MN)

Table 173 Middle East & Africa Cathode Materials Market Outlook, By Grid Storage (2016-2026) (\$MN)

Table 174 Middle East & Africa Cathode Materials Market Outlook, By Telecom Towers (2016-2026) (\$MN)

Table 175 Middle East & Africa Cathode Materials Market Outlook, By Other Industrial (2016-2026) (\$MN)

Table 176 Middle East & Africa Cathode Materials Market Outlook, By Power Tools (2016-2026) (\$MN)

Table 177 Middle East & Africa Cathode Materials Market Outlook, By Automotive (2016-2026) (\$MN)

Table 178 Middle East & Africa Cathode Materials Market Outlook, By Plug-in Hybrid Electric Vehicle (PHEV) (2016-2026) (\$MN)

Table 179 Middle East & Africa Cathode Materials Market Outlook, By Battery Electric Vehicles (BEV) (2016-2026) (\$MN)

Table 180 Middle East & Africa Cathode Materials Market Outlook, By Hybrid Electric Vehicle (HEV) (2016-2026) (\$MN)

## I would like to order

Product name: Cathode Materials - Global Market Outlook (2017-2026)

Product link: <https://marketpublishers.com/r/C0868A97D26EN.html>

Price: US\$ 4,150.00 (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/C0868A97D26EN.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