

Lithium-ion Battery Materials Market by Battery Chemistry (LFP, LCO, NMC, NCA, LMO), Material (Cathode, Anode, Electrolyte), Application (Portable Device, Electric Vehicle, Industrial, Power Tool, Medical Device), & Region - Global Forecast to 2029

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Report description:

The global lithium-ion battery materials market is projected to grow from USD 41.9 billion in 2024 to USD 120.9 billion by 2029, at a CAGR of 23.6% during the forecast period. The lithium-ion battery materials market is expanding rapidly due to rising demand for lithium-ion batteries across a variety of industries. These materials, which include cathode and anode materials, electrolytes, and separators, are required to produce batteries used in electric vehicles (EVs), consumer electronics, and energy storage systems. The key drivers of this market are the rising adoption of EVs, which is being driven by worldwide attempts to reduce carbon emissions and a trend toward renewable energy. Furthermore, rising demand for portable electronic devices, advances in battery technology, and government incentives to promote green energy are moving the industry forward.

"Portable devices segment, by application, is estimated to account for the second largest share during the forecast period"

The portable devices segment is projected to secure the second-largest share in the forecast period. Given the growing demand for consumer electronics such as smartphones, tablets, and laptops, the portable devices category is predicted to account for the second-largest proportion of the lithium-ion battery materials market. Factors such as the expanding popularity of remote work, online education, and the growing desire for smart gadgets are driving demand for portable electronics, which in turn fuels the demand for efficient and long-lasting lithium-ion batteries. The growing preference among consumers for high-performance devices with extended battery life will continue to boost demand for lithium-ion battery materials in the portable device industry.

"By battery chemistry, lithium iron phosphate segment is accounted for the second largest share during the forecast period"

The lithium iron phosphate segment by battery chemistry is expected to have the second-largest share of the lithium-ion battery materials market, owing to its safety features, high cycle life, and cost-effectiveness. These batteries are less prone to overheating and provide stability even at high temperatures, making them excellent for use in energy storage systems, electric buses, and certain electric automobiles. Furthermore, the increased emphasis on renewable energy integration and grid-scale

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energy storage systems is encouraging the development of lithium iron phosphate batteries, which are safe and durable. As the global focus on sustainability and energy efficiency grows, demand for lithium-ion battery materials, particularly those used in lithium iron phosphate batteries, is predicted to increase significantly.

"Electrolyte materials segment, by material, is estimated to account for the second largest share during the forecast period" Electrolyte materials are expected to account for the second-largest share of the lithium-ion battery materials market due to their significance in battery performance and safety. Electrolytes allow lithium ions to flow between the anode and cathode, a process required for energy storage and discharge. As the need for high-performance lithium-ion batteries grows, especially in applications such as electric vehicles and energy storage systems, so does the need for innovative electrolyte materials. These compounds are critical to increasing battery efficiency, longevity, and safety. The expansion of the electrolyte segment will propel the overall lithium-ion battery materials market by driving innovations in electrolyte formulations, such as solid-state and high-voltage electrolytes, which improve battery performance and open up new application opportunities.

"North America region is estimated to account for the second largest share during the forecast period"

North America is expected to have the second-largest share of the lithium-ion battery materials market, owing to the region's strong demand for electric vehicles (EVs) and growing emphasis on renewable energy solutions. Government incentives to reduce carbon emissions and promote sustainable transportation are driving the EV market's growth, encouraging both manufacturers and consumers to use lithium-ion battery technologies. Furthermore, the increasing integration of renewable energy sources, such as solar and wind, needs effective energy storage solutions, driving up demand for lithium-ion batteries and their materials.

Profile break-up of primary participants for the report:

-□By Company Type: Tier 1 - 65%, Tier 2 - 20%, and Tier 3 - 15%

-□By Designation: C-level- 25%, Director Level- 30%, and Others - 45%

-□By Region: North America - 20%, Europe - 15%, Asia Pacific - 55%, Rest of World - 10%

Umicore (Belgium), Sumitomo Metal Mining Co., Ltd. (Japan), BASF SE (Germany), POSCO Future M (South Korea), and Tanaka Chemical Corporation (Japan) are some of the major players operating in the lithium-ion battery materials market. These players have adopted strategies such as acquisitions, expansions, and partnerships in order to increase their market share business revenue.

Research Coverage:

The report defines, segments, and projects the lithium-ion battery materials market based on application, battery chemistry, material, and region. It provides detailed information regarding the major factors influencing the growth of the market, such as drivers, restraints, opportunities, and challenges. It strategically profiles, lithium-ion battery materials manufacturers and comprehensively analyses their market shares and core competencies as well as tracks and analyzes competitive developments, such as expansions, joint ventures, agreements, and acquisitions, undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them the closest approximations of revenue numbers of the lithium-ion battery materials market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses, and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (growth in production of lithium-ion batteries, surge in demand for consumer electronics), restraints (safety concerns regarding usage of gadgets or items installed with lithium-ion batteries, availability of substitutes), opportunities (growing R&D to enhance efficiency and upgrade lithium-ion batteries, decline in overall prices), and challenges (fluctuating raw material prices) influencing the growth of the lithium-ion battery materials market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the lithium-ion battery materials market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the lithium-ion battery materials market across varied regions.

-□Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments,

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and investments in the lithium-ion battery materials market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as Umicore (Belgium), Sumitomo Metal Mining Co., Ltd. (Japan), BASF SE (Germany), POSCO Future M (South Korea), Tanaka Chemical Corporation (Japan), Toda Kogyo Corp. (Japan), Resonac Holdings Corporation (Japan), L&F Co., Ltd. (South Korea), JFE Chemical Corporation (Japan), and 3M (US), and others in the lithium-ion battery materials market

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Lithium-ion Battery Materials Market by Battery Chemistry (LFP, LCO, NMC, NCA, LMO), Material (Cathode, Anode, Electrolyte), Application (Portable Device, Electric Vehicle, Industrial, Power Tool, Medical Device), & Region - Global Forecast to 2029

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Zip Code*	<input type="text"/>	Country*	<input type="text"/>

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Signature

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