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 2030

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Report description:

The global lithium-ion battery materials market is projected to grow from USD 48.29 billion in 2025 to USD 95.34 billion by 2030, at a CAGR of 14.6% during the forecast period. The lithium-ion battery materials market is growing steadily as electrification drives demand for electric vehicles that require large amounts of cathode and anode materials, electrolytes, and other advanced materials. Government policies that support low-emission transportation systems, together with renewable energy storage solutions and rising demand for consumer electronics products, create a greater need for lithium-ion battery components, including nickel-rich cathodes and silicon-enhanced anodes. The market opportunities for battery technology development extend beyond their current reach through solid-state electrolytes and next-generation anode materials, which enhance energy storage capacity, operational duration, and safety. The market expansion will reach new heights over the next 10 years as businesses invest in recycling initiatives and sustainable supply chain development to reduce their reliance on unstable sources of lithium, cobalt, and nickel while addressing environmental issues.

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"By battery materials, the electrolyte segment is estimated to register the fastest growth, in terms of value, of the lithium-ion battery materials market during the forecast period."
The electrolyte segment of the lithium-ion battery materials market will experience the fastest growth during the forecast period, as it is a vital component that determines battery operation and is driving market development through new technologies. The movement of ions between the cathode and anode requires electrolytes to perform their function, as they enable charging and discharging processes that determine the energy capacity, safety standards, and operational duration of lithium-ion batteries. The

urgent need for electric vehicles, portable electronics, and energy storage systems drives manufacturers to develop new electrolyte products that deliver higher ionic conductivity and thermal stability, compatible with upcoming battery technologies. The segment experiences growth acceleration as solid-state electrolyte technology receives more funding, offering better safety and higher energy density than conventional liquid electrolytes, and as automotive companies and battery manufacturers continue to develop commercial products. The electrolyte segment will drive value growth across the entire battery materials market because production capacity expands and research and development budgets increase.

"By battery chemistry, the lithium iron phosphate (LFP) segment is estimated to be the fastest-growing segment of the lithium-ion battery materials market during the forecast period."
The lithium iron phosphate (LFP) chemistry segment will achieve the fastest growth during the forecast period because LFP delivers better performance and safety features at lower cost than nickel-manganese-cobalt (NMC) and lithium cobalt oxide lithium-ion battery chemistries. Electric vehicles (EVs) and energy storage systems increasingly adopt LFP batteries because of their superior thermal stability, extended cycle life, and lower production costs, making them suitable for mass-market EVs and grid storage applications that prioritize safety and lifecycle economics. Government electrification policies and manufacturing growth in Asia-Pacific countries have created a funding demand that enables LFP production and adoption to increase. The lithium-ion batteries market segment will offer considerable growth opportunities throughout the forecast period, as envisaged for the battery materials industry.
"By application, the electric vehicle segment is estimated to be the fastest-growing segment of the lithium-ion battery materials market during the forecast period."
The electric vehicle (EV) application segment in the lithium-ion battery materials market will experience the fastest growth during the forecast period, according to estimates, as electrified mobility adoption and carbon-emission reduction regulations are expected to increase market demand. The automotive industry needs advanced battery materials, which include lithium, nickel, and cobalt, and new cathode and anode designs, because EV demand currently extends from passenger cars to commercial vehicles, and automakers are starting to produce new electrified vehicle models. The combination of government incentives, stricter emissions regulations, and growing consumer demand for environmentally friendly transportation options drives continuous market expansion for EVs, which in turn drives lithium-ion battery material consumption throughout the forecast period.

"The lithium-ion battery materials market in Europe is projected to register the fastest growth, in terms of value, during the forecast period."
The European region will achieve the highest market value growth for lithium-ion battery materials during the forecast period due to three driving factors: strategic policy support, rapid development of electric transportation, and increased domestic battery manufacturing. European governments and the European Union have implemented ambitious decarbonization and electrification targets that are stimulating demand for electric vehicles (EVs) and energy storage systems, thereby boosting demand for lithium-ion battery materials. The establishment and expansion of gigafactories, along with major investments by global battery manufacturers to localize production in countries such as Germany and Hungary, are boosting the region's market momentum as Europe seeks to strengthen its supply chain and reduce dependence on imports. Regulatory frameworks that support "made in Europe" supply chains, together with incentives for clean energy technologies, create conditions that drive this expansion forward. The European market for lithium-ion battery materials will experience rapid expansion as industrial companies in the region seek essential raw materials and battery technology continues to advance.
Profile break-up of primary participants for the report:
- By Company Type: Tier 1 - 45%, Tier 2 - 22%, and Tier 3 - 33%
- By Designation: C-Level Executives- 50%, Directors- 10%, and Others - 40%
- By Region: North America - 17%, Asia Pacific - 17%, Europe - 33%, and Rest of the World - 33%

Leading players operating in the lithium-ion battery materials market include Umicore (Belgium), Sumitomo Metal Mining Co., Ltd. (Japan), BASF (Germany), POSCO Future M (South Korea), Resonac Holdings Corporation (Japan), and others. These key players

are significant contributors to the lithium-ion battery materials market. These players have adopted various strategies, including agreements, joint ventures, and expansions, to increase their market share and business revenue.
Research Coverage:
The report defines segments and projects the size of the lithium-ion battery materials market based on type, group, application, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as expansions, partnerships, and acquisitions undertaken by them in the market.
Reasons to Buy the Report:
The report is expected to help market leaders/new entrants by providing the closest approximations of revenue for the lithium-ion battery materials market and its segments. This report is also expected to help stakeholders gain a deeper understanding of the market's competitive landscape, acquire valuable insights to enhance their business positions, and develop effective go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:
- Analysis of drivers (increasing adoption of electric vehicles, surging demand for consumer electronics), restraints (safety concerns related to gadgets with lithium-ion batteries, supply concentration of lithium, cobalt, and natural graphite create procurement risk, availability of substitutes), opportunities (declining lithium-ion battery prices, growing R&D to upgrade lithium-ion batteries, recycling and second-life material recovery, creating circular supply opportunities), and challenges (fluctuating raw materials prices) are influencing the growth of the lithium-ion battery materials market.

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

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

- Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, 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 (Germany), POSCO Future M (South Korea), Tanaka Chemical Corporation (Japan), Toda Kogyo Corp. (Japan), Resonac Holdings Corporation (Japan), LANDF Corp (China), JFE Chemical Corporation (China), 3M (US), SGL Carbon (Germany), NEI Corporation (US), BTR New Materials Group Co., Ltd. (China), UBE Corporation (Japan), Kuraray Co., Ltd. (Japan), Shenzhen Dynanonic Co., Ltd. (China), Huayou Cobalt Co., Ltd. (China), American Elements (US), and Morita Chemical Industries Co., Ltd. (Japan) are the key players in lithium-ion battery materials market.

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