

Global Silicon–based Material for Battery Anode Market Growth 2024-2030

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Abstracts

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In current commercial applications, silicon negative electrodes are mainly added to artificial graphite through doping. To solve the problems of expansion and failure of silicon-based materials, existing industry methods for modifying silicon-based negative electrodes include silicon oxidation, nanomaterialization, composite, porous, alloying, pre lithiation, etc. Among them, composite, silicon oxidation, nano technology, and pre lithiation technology have become relatively mature and have begun to be applied in industrialization.

The global Silicon–based Material for Battery Anode market size is projected to grow from US\$ 636 million in 2024 to US\$ 5520 million in 2030; it is expected to grow at a CAGR of 43.4% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Silicon–based Material for Battery Anode Industry Forecast” looks at past sales and reviews total world Silicon–based Material for Battery Anode sales in 2023, providing a comprehensive analysis by region and market sector of projected Silicon–based Material for Battery Anode sales for 2024 through 2030. With Silicon–based Material for Battery Anode sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon–based Material for Battery Anode industry.

This Insight Report provides a comprehensive analysis of the global Silicon–based Material for Battery Anode landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and

M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon-based Material for Battery Anode portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon-based Material for Battery Anode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon-based Material for Battery Anode and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon-based Material for Battery Anode.

Global key silicon anode material manufacturers include BTR, Shin-Etsu Chemical and Daejoo Electronic Materials. The top three suppliers accounted for 85% of global market share. The global origins are mainly located in China, Japan and South Korea, etc., of which China is the largest production area, holding about 54% of the market share. In terms of product, SiO/C is the largest segment, with a share about 83%. And in terms of application, the largest application is automotive, with a share about 85%.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon-based Material for Battery Anode market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SiO/C

Si/C

Segmentation by Application:

Automotive

Consumer Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Shin-Etsu Chemical

OSAKA Titanium Technologies

Resonac Corporation

Daejoo

BTR New Material Group

Shinghwa Advanced Material Group

Ningbo Shanshan

Shanghai Putailai New Energy Technology

Luoyang Lianchuang

Lanxi Zhide Advanced Materials

Chengdu Guibao Science&Technology

Shenzhen XFH Technology

Kaijin New Energy Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon-based Material for Battery Anode market?

What factors are driving Silicon-based Material for Battery Anode market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon-based Material for Battery Anode market opportunities vary by end market size?

How does Silicon-based Material for Battery Anode break out by Type, by Application?

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