

# **Global Next-Generation Anode Materials Market: Focus on Material Type {Silicon/Silicon Oxide Blend, Lithium Titanium Oxide (LTO), Silicon-Carbon Composite, Silicon-Graphene and Others}, Applications, and Patents– Analysis and Forecast, 2019-2029**

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## **Abstracts**

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### **Key Questions Answered in the Report:**

What was the total revenue generated by the global next-generation anode material market for autonomous in 2018 and how is it expected to grow during 2019 – 2029?

What are the major driving forces, trends, challenges and growth opportunities that can tend to influence the global next-generation anode market during the forecast period, 2019-2029?

How does the supply chain function in the next-generation anode materials market?

Which are the key application areas from which different next-generation anode materials experienced high demand in 2018, and which application areas should be targeted by the manufacturers of different types of products during the forecast period, 2019-2029?

Which regions and countries are leading in terms of consumption of next-generation anode materials, and which of them are expected to witness high demand growth from 2019-2029?

Which companies have been actively involved in innovation through patent applications, and which products have witnessed maximum patent applications during the period 2014-2018?

Which product segment is expected to witness the maximum demand growth in the next-generation anode materials market during 2019-2029?

What are the key offerings of the prominent companies in the market for next-generation anode materials?

Which are the consumption patterns of next-generation anode materials across application areas in different regions and countries during the period 2018-2029?

## Global Next-Generation Anode Materials Market, 2019-2029

In terms of value, the global next generation anode materials market for is expected to grow at a CAGR of 16.96% during the forecast period 2019-2029. The growth in the global next-generation anode materials market is attributable to the ongoing demand for innovative anode materials to meet the current demand of highly efficient batteries by different end users such as electric vehicles, energy storage, and power tools.

The ongoing demand for efficient lithium-ion batteries in electric vehicles and other consumer electronic devices, such as mobile phones, laptops, and notebooks, is further escalating the requirement of innovative changes in batteries. The lithium-ion batteries are essential to unlock new growth scenarios in electric vehicles and energy storage devices. The battery industry is evolving at an enormous rate with the entrance of new players and new technologies. This is expected to act as a catalyst to enable batteries in meeting the unmet demands in terms of their performance.

## Expert Quote on Global Next-Generation Anode Materials Market

“Silicon/silicon oxide blends are expected to witness fast growth in the medium term (2019-2024), while silicon-carbon composites are expected to witness healthy growth at

a commercial scale in the long term (2025-2029).”

## Scope of the Market Intelligent on the Global Next-Generation Anode Materials Market

The purpose of the global next-generation anode materials market study is to gain a holistic view of the market in terms of various factors influencing it, such as recent trends and technological advancements in the market. The research study focuses on unleashing the innovations in anode electrode of lithium-ion battery and aims to put forward a clear picture of the current consumption and future growth potential of different next-generation anode materials.

The report further includes a thorough analysis of the impact of the Porter's Five Forces Analysis to understand the overall attractiveness of the industry. Moreover, the company profile section highlights significant information about the key companies involved along with their financial positions, key strategies, and developmental activities of recent years.

## Market Segmentation

Key next-generation anode materials that are identified in the global next-generation anode materials market include silicon/silicon oxide blend, silicon-carbon composite, silicon-graphene, lithium titanium oxide, and others. In terms of material type, silicon/silicon oxide blend anode material acquires the largest market share in the current scenario. This is on the account of the rising global demand of electric vehicles, e-bikes, and e-buses, among others, and increasing focus on the lithium-ion batteries.

In terms of application, the material is in its initial phase of acceptance in consumer electronics goods such as mobile phones, tablets, and laptops. However, high adoption rate of this material is expected in the electric vehicles. Tesla Inc., for instance, uses silicon oxide blended with synthetic graphite as an anode material in its Model S and Model 3 of electric vehicles. The company currently uses a minimal amount of around 5% of silicon oxide in the anode and intends to increase the silicon oxide content in graphite by 5% every year moving forward.

The applicability of next-generation anode materials varies based on their properties. For example, silicon/silicon oxide blend is the most widely used in the transportation segment, while silicon-carbon composite is largely consumed by the electrical and electronics industry. The major reason of the large consumption in electrical and electronics application is the high durability, compatibility, and efficiency of the material

when used in the lithium-ion batteries.

The key players operating in this market have increased their partnership and collaboration activities over the recent years to expand their business and upgrade their technologies and to compete with the competitors' product portfolio. Driven by the rapid evolution of the end-user industries such as electric vehicles, there has been a swift growth in the research and development activities by several important players in this market of next-generation anode materials, with the motive of bringing improvement in the lithium-ion batteries.

#### Key Companies in the Global Next-Generation Anode Materials Market

Some of the key players operating in the next-generation anode materials market are Altair Nanotechnologies, Inc., Amprius, Inc., BTR New Energy Material Ltd., California Lithium Battery, Enevate Corporation, Enovix, HITACHI CHEMICAL CO. LTD., LeydenJar Technologies BV, NanoGraf Corporation, NEXEON LTD., Shanshan Technology, OneD Material, LLC, Paraclete Energy, Inc., pH Matter LLC, SCT HK, Sila Nanotechnologies Inc., and Talga Resources Ltd.

## Contents

### EXECUTIVE SUMMARY

### 1 MARKET DYNAMICS

#### 1.1 Market Drivers

- 1.1.1 Increasing Need for High Energy Density Batteries
- 1.1.2 Low-cost, Non-toxic, and Abundant Nature of Silicon
- 1.1.3 Growing Need for Fast Charging Batteries

#### 1.2 Market Restraints

- 1.2.1 Volume Increase and Degradation of Silicon Anodes
- 1.2.2 Inability to Produce High Quality Graphene on a large Scale at a Low Price

#### 1.3 Market Opportunities

- 1.3.1 Developing Effective Binders to Ensure Stability of Silicon Anodes
- 1.3.2 Targeting Low-Volume Applications

### 2 COMPETITIVE LANDSCAPE

#### 2.1 Key Market Development and Strategies

- 2.1.1 Partnerships, Collaborations, and Contracts
- 2.1.2 Business Expansions
- 2.1.3 Mergers, Acquisitions, and Joint Ventures
- 2.1.4 Product Launches
- 2.1.5 Other Key Activities

#### 2.2 Investment Scenario

#### 2.3 Market Concentration Analysis and Recommendations (by Material Type)

- 2.3.1 Silicon/Silicon Oxide Blends
- 2.3.2 Lithium Titanium Oxide
- 2.3.3 Silicon-Carbon Composite
- 2.3.4 Silicon-Graphene

### 3 KEY TRENDS IN ASSOCIATED MARKETS

#### 3.1 Impact of Graphene Trends on Next-Generation Anode Materials

- 3.1.1 Clashing Interests of Anode Material Manufacturers and Graphene Suppliers in Terms of Graphene Quality
- 3.1.2 Dependency of Graphene Producers on Graphite Suppliers
- 3.1.3 Supply Concentration of Graphene in China

### 3.2 Impact of Silicon Trends on Next-Generation Anode Materials

3.2.1 Focus on Silicon Recycling Promotes Application in Lithium-ion Batteries

3.2.2 Oversupply of Silicon Resulting in Downward Pricing Pressure

### 3.3 Demand Loss for Traditional Graphite and Carbon Anode Material Manufacturers Due to Growing Next-Generation Anode Materials Market

## 4 INDUSTRY ANALYSIS

### 4.1 Patent Analysis

4.1.1 Patent Analysis (by Material Type)

### 4.2 Supply Chain Analysis

### 4.3 Industry Attractiveness

4.3.1 Threat of New Entrants (High)

4.3.2 Bargaining Power of Buyers (High)

4.3.3 Bargaining Power of Suppliers (Low)

4.3.4 Threat of Substitutes (High)

4.3.5 Intensity of Competition (High)

### 4.4 Opportunity Matrix Analysis

4.4.1 Opportunity Matrix Analysis (by Product)

### 4.5 Comparative Analysis: Silicon/Silicon Oxide Blends vs. Lithium Titanium Oxide vs. Silicon-Carbon Composite vs. Silicon-Graphene

4.5.1 Technical Difference

4.5.2 Commercial Difference

4.5.3 Key Focus Areas for Suppliers

4.5.3.1 Silicon/Silicon Oxide Blend

4.5.3.2 Lithium Titanium Oxide

4.5.3.3 Silicon-Carbon Composite

4.5.3.4 Silicon-Graphene

## 5 GLOBAL NEXT-GENERATION ANODE MATERIALS MARKET (BY MATERIAL TYPE), ANALYSIS AND FORECAST (2019-2029)

### 5.1 Market Overview

### 5.2 Silicon/Silicon Oxide Blend

5.2.1 Silicon/ Silicon Oxide Blend Anode Materials Market (by Application)

### 5.3 Lithium Titanium Oxide

5.3.1 Lithium Titanium Oxide Anode Materials Market (by Application)

### 5.4 Silicon-Carbon Composite

5.4.1 Silicon-Carbon Composite Anode Materials Market (by Application)

## 5.5 Silicon-Graphene

### 5.5.1 Silicon-Graphene Anode Materials Market (by Application)

## 5.6 Others

### 5.6.1 Others Next-Generation Anode Materials Market (by Application)

## **6 GLOBAL NEXT-GENERATION ANODE MATERIALS MARKET (BY REGION), ANALYSIS AND FORECAST (2019-2029)**

### 6.1 Market Overview

#### 6.1.1 Global Next-Generation Anode Materials Market (by Region), Kilotons and \$Million, 2018-2029

### 6.2 Asia-Pacific

#### 6.2.1 Asia-Pacific Next-Generation Anode Materials Market (by Material Type)

##### 6.2.1.1 Asia-Pacific Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.2.1.2 Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.2.1.3 Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.2.1.4 Asia-Pacific Silicon-Graphene Anode Materials (by Application)

##### 6.2.1.5 Asia-Pacific Other Next-Generation Anode Materials Market (by Application)

#### 6.2.2 Asia-Pacific Next-Generation Anode Materials Market (by Country)

##### 6.2.2.1 China

##### 6.2.2.1.1 China Next-Generation Anode Materials Market (by Material Type)

##### 6.2.2.1.1.1 China Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.2.2.1.1.2 China Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.2.2.1.1.3 China Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.2.2.1.1.4 China Silicon-Graphene Anode Materials Market (by Application)

##### 6.2.2.1.1.5 China Other Next-Generation Anode Materials Market (by Application)

##### 6.2.2.2 South Korea

##### 6.2.2.2.1 South Korea Next-Generation Anode Materials Market (by Material Type)

##### 6.2.2.2.1.1 South Korea Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.2.2.2.1.2 South Korea Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.2.2.2.1.3 South Korea Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.2.2.2.1.4 South Korea Silicon-Graphene Anode Materials Market (by Application)

##### 6.2.2.2.1.5 South Korea Other Next-Generation Anode Materials Market (by Application)



### 6.2.2.3 Japan

#### 6.2.2.3.1 Japan Next-Generation Anode Materials Market (by Material Type)

##### 6.2.2.3.1.1 Japan Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.2.2.3.1.2 Japan Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.2.2.3.1.3 Japan Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.2.2.3.1.4 Japan Silicon-Graphene Anode Materials Market (by Application)

##### 6.2.2.3.1.5 Japan Other Next-Generation Anode Materials Market (by Application)

### 6.2.2.4 Rest-of-Asia-Pacific

#### 6.2.2.4.1 Rest-of-Asia-Pacific Next-Generation Anode Materials Market (by Material Type)

##### 6.2.2.4.1.1 Rest-of-Asia-Pacific Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.2.2.4.1.2 Rest-of-Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.2.2.4.1.3 Rest-of-Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.2.2.4.1.4 Rest-of-Asia-Pacific Silicon-Graphene Anode Materials Market (by Application)

##### 6.2.2.4.1.5 Rest-of-Asia-Pacific Other Next-Generation Anode Materials Market (by Application)

### 6.3 North America

#### 6.3.1 North America Next-Generation Anode Materials Market (by Material Type)

##### 6.3.1.1 North America Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.3.1.2 North America Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.3.1.3 North America Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.3.1.4 North America Silicon-Graphene Anode Materials Market (by Application)

##### 6.3.1.5 North America Other Next-Generation Anode Materials Market (by Application)

#### 6.3.2 North America Next-Generation Anode Materials Market (by Country)

##### 6.3.2.1 U.S.

##### 6.3.2.1.1 U.S. Next-Generation Anode Materials Market (by Material Type)

##### 6.3.2.1.1.1 U.S. Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.3.2.1.1.2 U.S. Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.3.2.1.1.3 U.S. Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.3.2.1.1.4 U.S. Silicon-Graphene Anode Materials Market (by Application)



6.3.2.1.1.5 U.S. Other Next-Generation Anode Materials Market (by Application)

6.3.2.2 Rest-of-North America

6.3.2.2.1 Rest-of-North America Next-Generation Anode Materials Market (by Material Type)

6.3.2.2.1.1 Rest-of-North America Silicon/Silicon Oxide Anode Materials Market (by Application)

6.3.2.2.1.2 Rest-of-North America Lithium Titanium Oxide Anode Materials Market (by Application)

6.3.2.2.1.3 Rest-of-North America Silicon-Carbon Composite Anode Materials Market (by Application)

6.3.2.2.1.4 Rest-of-North America Silicon-Graphene Anode Materials Market (by Application)

6.3.2.2.1.5 Rest-of-North America Other Next-Generation Anode Materials Market (by Application)

6.4 Europe

6.4.1 Europe Next-Generation Anode Materials Market (by Material Type)

6.4.1.1 Europe Silicon/Silicon Oxide Anode Materials Market (by Application)

6.4.1.2 Europe Lithium Titanium Oxide Anode Materials Market (by Application)

6.4.1.3 Europe Silicon-Carbon Composite Anode Materials Market (by Application)

6.4.1.4 Europe Silicon-Graphene Anode Materials Market (by Application)

6.4.1.5 Europe Other Next-Generation Anode Materials Market (by Application)

6.4.2 Europe Next-Generation Anode Materials Market (by Country)

6.4.2.1 U.K.

6.4.2.1.1 U.K. Next-Generation Anode Materials Market (by Material Type)

6.4.2.1.1.1 U.K. Silicon/Silicon Oxide Anode Materials Market (by Application)

6.4.2.1.1.2 U.K. Lithium Titanium Oxide Anode Materials Market (by Application)

6.4.2.1.1.3 U.K. Silicon-Carbon Composite Anode Materials Market (by Application)

6.4.2.1.1.4 U.K. Silicon-Graphene Anode Materials Market (by Application)

6.4.2.1.1.5 U.K. Other Next-Generation Anode Materials Market (by Application)

6.4.2.2 Poland

6.4.2.2.1 Poland Next-Generation Anode Materials Market (by Material Type)

6.4.2.2.1.1 Poland Silicon/Silicon Oxide Anode Materials Market (by Application)

6.4.2.2.1.2 Poland Lithium Titanium Oxide Anode Materials Market (by Application)

6.4.2.2.1.3 Poland Silicon-Carbon Composite Anode Materials Market (by Application)

6.4.2.2.1.4 Poland Silicon-Graphene Anode Materials Market (by Application)

6.4.2.2.1.5 Poland Other Next-Generation Anode Materials Market (by Application)

6.4.2.3 Hungary

#### 6.4.2.3.1 Hungary Next-Generation Anode Materials Market (by Material Type)

##### 6.4.2.3.1.1 Hungary Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.4.2.3.1.2 Hungary Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.4.2.3.1.3 Hungary Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.4.2.3.1.4 Hungary Silicon-Graphene Anode Materials Market (by Application)

##### 6.4.2.3.1.5 Hungary Other Next-Generation Anode Materials Market (by Application)

#### 6.4.2.4 Rest-of-Europe

##### 6.4.2.4.1 Rest-of-Europe Next-Generation Anode Materials Market (by Material Type)

##### 6.4.2.4.1.1 Rest-of-Europe Silicon/Silicon Oxide Anode Materials Market (by Application)

##### 6.4.2.4.1.2 Rest-of-Europe Lithium Titanium Oxide Anode Materials Market (by Application)

##### 6.4.2.4.1.3 Rest-of-Europe Silicon-Carbon Composite Anode Materials Market (by Application)

##### 6.4.2.4.1.4 Rest-of-Europe Silicon-Graphene Anode Materials Market (by Application)

##### 6.4.2.4.1.5 Rest-of-Europe Other Next-Generation Anode Materials Market (by Application)

#### 6.5 Rest-of-the-World

##### 6.5.1 Middle East and Africa

##### 6.5.2 South America

## 7 COMPANY PROFILES

### 7.1 Overview

#### 7.2 Altair Nanotechnologies, Inc.

##### 7.2.1 Company Overview

##### 7.2.2 Role of Altair Nanotechnologies, Inc. in Next-Generation Anode Materials Market

##### 7.2.3 SWOT Analysis

#### 7.3 Amprius, Inc.

##### 7.3.1 Company Overview

##### 7.3.2 Role of Amprius, Inc. in Next-Generation Anode Materials Market

##### 7.3.3 SWOT Analysis

#### 7.4 BTR New Energy Material Ltd.

##### 7.4.1 Company Overview

#### 7.4.2 Role of BTR New Energy Material Ltd. in Next-Generation Anode Materials Market

##### 7.4.3 SWOT Analysis

#### 7.5 California Lithium Battery

##### 7.5.1 Company Overview

##### 7.5.2 Role of California Lithium Battery in Next-Generation Anode Materials Market

##### 7.5.3 SWOT Analysis

#### 7.6 Enevate Corporation

##### 7.6.1 Company Overview

##### 7.6.2 Role of Enevate Corporation in Next-Generation Anode Materials Market

##### 7.6.3 SWOT Analysis

#### 7.7 Enovix

##### 7.7.1 Company Overview

##### 7.7.2 Role of Enovix in Next-Generation Anode Materials Market

##### 7.7.3 SWOT Analysis

#### 7.8 Hitachi Chemical Co. Ltd.

##### 7.8.1 Company Overview

##### 7.8.2 Role of Hitachi Chemical Co. Ltd. in Next-Generation Anode Materials Market

##### 7.8.3 Financials

##### 7.8.4 Key Insights About Financial Health of the Company

##### 7.8.5 SWOT Analysis

#### 7.9 LeydenJar Technologies BV

##### 7.9.1 Company Overview

##### 7.9.2 Role of LeydenJar Technologies BV in Next-Generation Anode Materials Market

##### 7.9.3 SWOT Analysis

#### 7.10 NanoGraf Corporation

##### 7.10.1 Company Overview

##### 7.10.2 Role of NanoGraf Corporation in Next-Generation Anode Materials Market

##### 7.10.3 SWOT Analysis

#### 7.11 NEXEON LTD.

##### 7.11.1 Company Overview

##### 7.11.2 Role of NEXEON LTD. in Next-Generation Anode Materials Market

##### 7.11.3 SWOT Analysis

#### 7.12 Shanshan Technology

##### 7.12.1 Company Overview

##### 7.12.2 Role of Shanshan Technology in Next-Generation Anode Materials Market

##### 7.12.3 SWOT Analysis

#### 7.13 OneD Material, LLC

##### 7.13.1 Company Overview

- 7.13.2 Role of OneD Material, LLC in Next-Generation Anode Materials Market
- 7.13.3 SWOT Analysis
- 7.14 Paraclete Energy, Inc
  - 7.14.1 Company Overview
  - 7.14.2 Role of Paraclete Energy, Inc. in Next-Generation Anode Materials Market
  - 7.14.3 SWOT Analysis
- 7.15 pH Matter LLC
  - 7.15.1 Company Overview
  - 7.15.2 Role of pH Matter LLC in Next-Generation Anode Materials Market
  - 7.15.3 SWOT Analysis
- 7.16 SCT HK
  - 7.16.1 Company Overview
  - 7.16.2 Role of SCT HK in Global Next-Generation Anode Materials Market
  - 7.16.3 SWOT Analysis
- 7.17 Sila Nanotechnologies Inc.
  - 7.17.1 Company Overview
  - 7.17.2 Role of Sila Nanotechnologies Inc. in Next-Generation Anode Materials Market
  - 7.17.3 SWOT Analysis
- 7.18 Talga Resources Ltd
  - 7.18.1 Company Overview
  - 7.18.2 Role of Talga Resources Ltd in Next-Generation Anode Materials Market
  - 7.18.3 Financials
  - 7.18.4 SWOT Analysis
- 7.19 List of Other Key Players in the Next-Generation Anode Materials Market

## **8 REPORT SCOPE AND METHODOLOGY**

- 8.1 Report Scope
- 8.2 Global Next-Generation Anode Materials Market Research Methodology
  - 8.2.1 Assumptions
  - 8.2.2 Limitations
  - 8.2.3 Primary Data Sources
  - 8.2.4 Secondary Data Sources
  - 8.2.5 Data Triangulation
  - 8.2.6 Market Estimation and Forecast

## List Of Tables

### LIST OF TABLES

Table 1.1: Impact Analysis of Drivers

Table 1.2: Impact Analysis of Restraints

Table 2.1: Partnerships, Collaborations, and Contracts (2014-2019)

Table 2.2: Key Business Expansion Activities (2014-2019)

Table 2.3: Mergers, Acquisitions and Joint Ventures (2014-2019)

Table 2.4: Product Launches (2015-2019)

Table 2.5: Other Key Developments (2014-2019)

Table 2.6: Investments (2014-2019)

Table 4.1: Key factors in Determining “Threat from New Entrants” in Next-Generation Anode Materials Market

Table 4.2: Key Factors in Determining “Bargaining Power of Buyers” in the Next-Generation Anode Materials Market

Table 4.3: Key Factors in Determining “Bargaining Power of Suppliers” in Next-Generation Anode Materials Market

Table 4.4: Analyzing the Threat of Substitutes in Next-Generation Anode Materials Market

Table 4.5: Key Factors in Determining “Rivalry Among Existing Firms” in Next-Generation Anode Materials Market

Table 5.1: Global Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 5.2: Global Next-Generation Anode Materials Market (by Type), \$Million, 2018-2029

Table 5.3: Global Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 5.4: Global Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 5.5: Global Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 5.6: Global Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 5.7: Global Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 5.8: Global Silicon-Carbon Composite Anode Materials Market (by Application), \$Million, 2018-2029

Table 5.9: Global Silicon-Graphene Anode Materials Market (by Application), Tons,

2018-2029

Table 5.10: Global Silicon-Graphene Anode Materials Market (by Application), \$Million, 2018-2029

Table 5.11: Global Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 5.12: Global Other Next-Generation Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.1: Global Next-Generation Anode Materials Market (by Region), Kilotons, 2018-2029

Table 6.2: Global Next-Generation Anode Materials Market (by Region), \$Million, 2018-2029

Table 6.3: Asia-Pacific Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.4: Asia-Pacific Next-Generation Anode Materials Market (by Material Type), \$Million, 2018-2029

Table 6.5: Asia-Pacific Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.6: Asia-Pacific Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.7: Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.8: Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.9: Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.10: Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.11: Asia-Pacific Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.12: Asia-Pacific Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.13: Asia-Pacific Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.14: Asia-Pacific Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.15: Asia-Pacific Next-Generation Anode Materials Market (by Country), Tons, 2018-2029

Table 6.16: Asia-Pacific Next-Generation Anode Materials Market (by Country), \$Million, 2018-2029



Table 6.17: China Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.18: China Next-Generation Anode Materials Market (by Type), \$Million, 2018-2029

Table 6.19: China Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.20: China Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.21: China Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.22: China Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.23: China Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.24: China Silicon-Carbon Composite Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.25: China Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.26: China Silicon-Graphene Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.27: China Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.28: China Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.29: South Korea Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.30: South Korea Next-Generation Anode Materials Market (by Type), \$Million, 2018-2029

Table 6.31: South Korea Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.32: South Korea Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.33: South Korea Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.34: South Korea Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.35: South Korea Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.36: South Korea Silicon-Carbon Composite Anode Materials Market (by



Application), \$Thousand, 2018-2029

Table 6.37: South Korea Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.38: South Korea Silicon-Graphene Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.39: South Korea Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.40 South Korea Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.41: Japan Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.42: Japan Next-Generation Anode Materials Market (by Type), \$Thousand, 2018-2029

Table 6.43: Japan Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.44: Japan Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.45: Japan Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.46: Japan Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.47: Japan Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.48: Japan Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.49: Japan Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.50: Japan Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.51: Japan Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.52: Japan Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.53: Rest-of-Asia-Pacific Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.54: Rest-of-Asia-Pacific Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.55: Rest-of-Asia-Pacific Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.56 Rest-of-Asia-Pacific Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.57: Rest-of-Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.58: Rest-of-Asia-Pacific Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.59: Rest-of-Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.60: Rest-of-Asia-Pacific Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.61: Rest-of-Asia-Pacific Silicon-Graphene Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.62: Rest-of-Asia-Pacific Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.63: Rest-of-Asia-Pacific Other Next-Generation Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.64: Rest-of-Asia-Pacific Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.65: North America Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.66: North America Next-Generation Anode Materials Market (by Material Type), \$Million, 2018-2029

Table 6.67: North America Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.68: North America Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.69: North America Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.70: North America Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.71: North America Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.72: North America Silicon-Carbon Composite Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.73: North America Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.74: North America Silicon-Graphene Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.75: North America Other Next-Generation Anode Materials Market (by

Application), Tons, 2018-2029

Table 6.76: North America Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.77: North America Next-Generation Anode Materials Market (by Country), Tons, 2018-2029

Table 6.78: North America Next-Generation Anode Materials Market (by Country), \$Million, 2018-2029

Table 6.79: Facilities with Production Capacities (2016)

Table 6.80: U.S. Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.81: U.S. Next-Generation Anode Materials Market (by Material Type), \$Million, 2018-2029

Table 6.82: U.S. Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.83: U.S. Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.84: U.S. Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.85: U.S. Lithium Titanium Oxide Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.86: U.S. Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.87: U.S. Silicon-Carbon Composite Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.88: U.S. Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.89: U.S. Silicon-Graphene Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.90: U.S. Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.91: U.S. Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.92: Rest-of-North America Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.93: Rest-of-North America Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.94: Rest-of-North America Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.95: Rest-of-North America Silicon/Silicon Oxide Blend Anode Materials Market

(by Application), \$Thousand, 2018-2029

Table 6.96: Rest-of-North America Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.97: Rest-of-North America Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.98: Rest-of-North America Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.99: Rest-of-North America Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.100: Rest-of-North America Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.101: Rest-of-North America Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.102: Rest-of-North America Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.103: Rest-of-North America Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.104: Europe Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.105: Europe Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.106: Europe Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.107: Europe Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.108: Europe Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.109: Europe Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.110: Europe Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.111: Europe Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.112: Europe Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.113: Europe Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.114: Europe Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.115: Europe Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.116: Europe Next-Generation Anode Materials Market (by Country), Tons, 2018-2029

Table 6.117: Europe Next-Generation Anode Materials Market (by Country), \$Million, 2018-2029

Table 6.118: U.K. Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.119: U.K. Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.120: U.K. Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.121: U.K. Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.122: U.K. Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.123: U.K. Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.124: U.K. Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.125: U.K. Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.126: U.K. Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.127: U.K. Silicon-Graphene Blend Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.128: U.K. Other Next-Generation Anode Materials Market (by Application), Tons, 2018-2029

Table 6.129: U.K. Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.130: Poland Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.131: Poland Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.132: Poland Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.133: Poland Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Million, 2018-2029

Table 6.134: Poland Lithium Titanium Oxide Anode Materials Market (by Application),



Tons, 2018-2029

Table 6.135: Poland Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.136: Poland Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.137: Poland Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.138: Poland Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.139: Poland Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.140: Poland Other Next-Generation Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.141: Poland Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.142: Hungary Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.143: Hungary Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.144: Hungary Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.145: Hungary Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.146: Hungary Lithium Titanium Oxide Anode Materials Market (by Application), Tons, 2018-2029

Table 6.147: Hungary Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.148: Hungary Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.149: Hungary Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.150: Hungary Silicon-Graphene Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.151: Hungary Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.152: Hungary Other Next-Generation Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.153: Hungary Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.154: Rest-of-Europe Next-Generation Anode Materials Market (by Material Type), Tons, 2018-2029

Table 6.155: Rest-of-Europe Next-Generation Anode Materials Market (by Material Type), \$Thousand, 2018-2029

Table 6.156: Rest-of-Europe Silicon/Silicon Oxide Blend Anode Materials Market (by Application), Tons, 2018-2029

Table 6.157: Rest-of-Europe Silicon/Silicon Oxide Blend Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.158: Rest-of-Europe Lithium Titanium Oxide Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.159: Rest-of-Europe Lithium Titanium Oxide Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.160: Rest-of-Europe Silicon-Carbon Composite Anode Materials Market (by Application), Tons, 2018-2029

Table 6.161: Rest-of-Europe Silicon-Carbon Composite Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.162: Rest-of-Europe Silicon-Graphene Anode Materials Market (by Application), Tons, 2018-2029

Table 6.163: Rest-of-Europe Silicon-Graphene Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 6.164: Rest-of-Europe Other Next-Generation Anode Materials Market (by Application), Kilogram, 2018-2029

Table 6.165: Rest-of-Europe Other Next-Generation Anode Materials Market (by Application), \$Thousand, 2018-2029

Table 7.1: List of Key Next-Generation Anode Material Manufacturers



## List Of Figures

### LIST OF FIGURES

Figure 1: Global Next-Generation Anode Materials Market Overview, 2018-2029

Figure 2: Global Next-Generation Anode Materials Market (by Material Type), 2018, 2019, and 2029

Figure 3: Global Silicon/Silicon Oxide Blend Anode Materials Market Analysis (by Application)

Figure 4: Global Lithium Titanium Oxide Anode Materials Market Analysis (by Application)

Figure 5: Global Silicon-Carbon Composite Anode Materials Market Analysis (by Application)

Figure 6: Global Silicon-Graphene Anode Materials Market Analysis (by Application)

Figure 7: Global Other Next-Generation Anode Materials Market Analysis (by Application)

Figure 8: Global Next-Generation Anode Materials Market (by Region), 2018

Figure 1.1: Market Dynamics: Global Next-Generation Anode Materials Market

Figure 1.2: Gap in Range: Electric Vehicles vs. IC Engine Vehicles

Figure 1.3: Comparison of Reversible Capacity of Different Anode Materials for Lithium-ion Batteries

Figure 1.4: Gap in Charging/Refueling Time: Electric Vehicles vs. IC Engine Vehicles

Figure 1.5: Stability of Silicon Particles Varying with Diameter Size

Figure 2.1: Share of Key Market Strategies and Developments, 2014-2019

Figure 3.1: Traditional Anode Materials vs. Next-Generation Anode Materials, Market Value, 2018 vs. 2029

Figure 4.1: Year-Wise Patents Filed for Next-Generation Anode Materials Market, 2014-2018

Figure 4.2: Patent Analysis (by Material Type), 2014 to 2018

Figure 4.3: Global Next-Generation Anode Materials Market Supply Chain

Figure 4.4: Porters Five Forces Analysis

Figure 4.5: Global Next-Generation Anode Materials Market Opportunity Matrix (by Product), 2019-2029

Figure 5.1: Types of Next-Generation Anode Materials

Figure 5.2: Silicon/ Silicon Oxide Blend Anode Materials Market (by Material Type), \$Million and Kilotons, 2018-2029

Figure 5.3: Lithium Titanium Oxide in Global Next-Generation Anode Materials Market (by Type), \$Million and Kilotons, 2018-2029

Figure 5.4: Silicon-Carbon Composite in Global Next-Generation Anode Materials

Market (by Type), \$Million and Tons, 2018-2029

Figure 5.5: Silicon-Graphene in Global Next-Generation Anode Materials Market (by Type), \$Million and Metric Tons, 2018-2029

Figure 5.6: Others in Global Next-Generation Anode Materials Market (by Type), \$Million and Metric Tons, 2018-2029

Figure 6.1: Global Next-Generation Anode Materials Market – Regional Segmentation

Figure 6.2: Global Next-Generation Anode Materials Market (by Region), 2018 and 2029

Figure 6.3: China Next-Generation Anode Materials Market, \$Million and Kilotons, 2018-2029

Figure 6.4: South Korea Next-Generation Anode Materials Market, \$Million and Metric Tons, 2018-2029

Figure 6.5: Japan Next-Generation Anode Materials Market, \$Million and Kilotons, 2018-2029

Figure 6.6: Rest-of-Asia-Pacific Next-Generation Anode Materials Market, \$Million and Metric Tons, 2018-2029

Figure 6.7: U.S. Next-Generation Anode Materials Market, \$Million and Metric Tons, 2018-2029

Figure 6.8: Rest-of-North America Next-Generation Anode Materials Market, \$Million and Metric Tons, 2018-2029

Figure 6.9: U.K. Next-Generation Anode Materials Market, \$Million and Kilotons, 2018-2029

Figure 6.10: Poland Next-Generation Anode Materials Market, \$Million and Kilotons, 2018-2029

Figure 6.11: Hungary Next-Generation Anode Materials Market, \$Million and Tons, 2018-2029

Figure 6.12: Rest-of-Europe Next-Generation Anode Materials Market, \$Million and Tons, 2018-2029

Figure 7.1: Altair Nanotechnologies, Inc.: Product Portfolio

Figure 7.2: Altair Nanotechnologies, Inc.: SWOT Analysis

Figure 7.3: Amprius, Inc.: Overall Product Portfolio

Figure 7.4: Amprius, Inc.: SWOT Analysis

Figure 7.5: BTR New Energy Material Ltd.: Overall Product Portfolio

Figure 7.6: BTR New Energy Material Ltd.: SWOT Analysis

Figure 7.7: California Lithium Battery: Overall Product Portfolio

Figure 7.8: California Lithium Battery: SWOT Analysis

Figure 7.9: Enevate Corporation: Overall Product Portfolio

Figure 7.10: Enevate Corporation: SWOT Analysis

Figure 7.11: Enovix: Overall Product Portfolio

Figure 7.12: Enovix: SWOT Analysis

Figure 7.13: Hitachi Chemical Co. Ltd.: Product Portfolio

Figure 7.14: Hitachi Chemical Co. Ltd.: Overall Financials, 2015-2017

Figure 7.15: Hitachi Chemical Co. Ltd.: Net Revenue (by Region), 2015-2017

Figure 7.16: Hitachi Chemical Co. Ltd.: Net Revenue (by Business Segment), 2015-2017

Figure 7.17: Hitachi Chemical Co. Ltd.: R&D Expenditure, 2016-2018

Figure 7.18: Hitachi Chemical Co. Ltd.: SWOT Analysis

Figure 7.19: LeydenJar Technologies BV: Overall Product Portfolio

Figure 7.20: LeydenJar Technologies BV: SWOT Analysis

Figure 7.21: NanoGraf Corporation: Overall Product Portfolio

Figure 7.22: NanoGraf Corporation: SWOT Analysis

Figure 7.23: NEXEON LTD.: Overall Product Portfolio

Figure 7.24: NEXEON LTD.: SWOT Analysis

Figure 7.25: Shanshan Technology: Overall Product Portfolio

Figure 7.26: Shanshan Technology: SWOT Analysis

Figure 7.27: OneD Material, LLC: Overall Product Portfolio

Figure 7.28: OneD Material, LLC: SWOT Analysis

Figure 7.29: Paraclete Energy, Inc.: Overall Product Portfolio

Figure 7.30: Paraclete Energy, Inc: SWOT Analysis

Figure 7.31: pH Matter LLC: Overall Product Portfolio

Figure 7.32: pH Matter LLC: SWOT Analysis

Figure 7.33: SCT HK: Overall Product Portfolio

Figure 7.34: SCT HK: SWOT Analysis

Figure 7.35: Sila Nanotechnologies Inc.: Overall Product Portfolio

Figure 7.36: Sila Nanotechnologies Inc.: SWOT Analysis

Figure 7.37: Talga Resources Ltd: Product Portfolio

Figure 7.38: Talga Resources Ltd: Overall Financials, 2016-2018

Figure 7.39: Talga Resources Ltd: Net Revenue (by Region), 2017-2018

Figure 7.40: Talga Resources Ltd: SWOT Analysis

Figure 8.1: Global Next-Generation Anode Materials Market Coverage

Figure 8.2: Segmentations for Market Estimation in the Global Next-Generation Anode Materials Market

Figure 8.3: Report Design

Figure 8.4: Primary Interviews (by Player, Designation, and Region)

Figure 8.5: Data Triangulation

Figure 8.6: Top-Down and Bottom-Up Approach

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