

Global Carbon Nano Materials Market Size study & Forecast, by Product Type (Graphene, Carbon Nanofibers, Fullerenes, Others) and Regional Analysis, 2022-2029

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Abstracts

Global Carbon Nano Materials Market is valued approximately USD 2.9 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 27.7% over the forecast period 2022-2029. Carbon Nano Materials carry excellent electrical, chemical, thermal, and mechanical characteristics. Carbon nanomaterials are used in medicine delivery, composite materials, energy storage and conversion, sensors, field emission devices, and nanoscale electronic components. Carbon nanomaterials include fullerenes, carbon nanotubes (CNTs), graphene and its derivatives, graphene oxide, nanodiamonds, and quantum dots made of carbon (CQDs). Due to their distinct structural characteristics and enhanced mechanical, electrical, thermal, optical, and chemical properties, carbon nanomaterials have caught the attention of a wide range of industrial applications. The increasing expansion of automotive interior industry and growing demand for Lithium-ion batteries are key factors driving the market growth.

The increasing expansion automotive interior industry is contributing towards the growth of the Global Carbon Nano Materials market as nanomaterials such as aluminium carbon nanotube composites, carbon nanotubes, aluminium silicon carbide composites, and graphene are commonly used in automotive sector. For instance – as per Statista - the global automotive interior market is estimated to gain significant growth between 2019 and 2030., as in 2019 the market was estimated at USD 215 billion, and is expected to reach the size of around USD 385 billion in 2030. Additionally, the increasing demand for Li-ion batteries is likely to influence the market growth over the forecast period. For instance – according to Statista – in 2020, global lithium-ion battery market was estimated at USD 40.5 billion, and it is projected to grow at a GACR of 14.6

percent, to reach USD 92 billion by 2026. Also, growing expansion of electrical and electronics industry and increasing demand for Carbon Nanomaterials in the medical and healthcare industry would create lucrative growth prospectus for the market over the forecast period. However, concern over environmental impact of carbon nanoparticles stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Carbon Nano Materials Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific dominated the market in terms of revenue, owing to the presence of well-established automotive manufacturing industry and presence of leading market players in the region. Whereas Asia Pacific is expected to grow with a highest CAGR during the forecast period, owing to factors such as rising expansion of EV industry and increasing demand for Carbon Nano materials from electronics industry in the region.

Major market player included in this report are:

Arkema Group

Bayer AG

DuPont

G6 Materials Corp

Graphenea

hollingsworth & vose

Hydale Graphene Industries Plc

Hyperion Catalysis International, Inc.

Jiangsu Cnano Technology Co., Ltd

LG Chem Ltd

Recent Developments in the Market:

In December 2019, Edmonton-based Capital Power announced commencement of world's first commercial-scale carbon nanotube production facility at its Genesee power station. Moreover, the company is an investor in Calgary-based C2CNT, which has developed a technology that captures and transforms carbon dioxide into carbon nanotubes, for application in production of such as concrete, steel and aluminium.

In August 2022, Seoul, South Korea based LG Chem announced investment in carbon nanotubes (CNTs) with the construction of the world's largest single-line CNT manufacturing plant. The new plant from LG Chem's is part of the Group's initiative to access competitive advantage in rising CNT demand from electric vehicle (EV) battery materials.

Global Carbon Nano Materials Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product Type, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type

Graphene

Carbon Nanofibers

Fullerenes

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

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