

Nanopesticide

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Report description:

The global nanopesticide market was valued at \$0.5 billion in 2021, and is projected to reach \$1.6 billion by 2031, registering a CAGR of 12.5% from 2022 to 2031.

Nanopesticides can be developed from different types of nanomaterials. These include chitosan nanoparticles, various types of carbon nanostructures, such as graphene and its derivatives, carbon nanodots, carbon nanotubes, and others. Also, chitin, micelles, clays, clay derivatives, synthetic clays, activated carbon, zeolites, silica, and others, have been used for the production of host-guest nanopesticides. Nanopesticides are used as agro-nanochemicals for fertilizer, soil improver, plant protection and management, precision farming, sensors and detectors, pesticide remediation, animal production, postharvest management, and more. Nanopesticides are also utilized to improve agricultural yield and prevent food waste. Nanopesticides can boost vegetative growth, reproductive development, and blooming, thus increasing output, fruit quality, and shelf-life.

For the purpose of analysis, the nanopesticide market scope covers type, utility, application, and region. The report outlines the details about nanopesticide types, including nanoinsecticides, nanoherbicides, nanofungicides, and others. The use of nanopesticide in various applications, including pest control, packaging, and others is analyzed in the report. Moreover, it analyzes the current market trends of nanopesticide across different regions, such as North America, Europe, Asia-Pacific, and LAMEA and suggests the future growth opportunities.

The growth drivers, restraints, and opportunities are explained in the report to better understand the market dynamics. This report further highlights the key areas of investment. In addition, it includes Porter's five forces analysis to understand the competitive scenario of the industry and role of each stakeholder. Value chain analysis for this industry, which includes R&D, components manufacturers, assembly, programming & testing, marketing & sales, customers, and post-sales services, is explained. The report features the strategies adopted by key market players to maintain their foothold in the market. Furthermore, it highlights the competitive landscape of the key players to increase their market share and sustain intense competition in the industry.

In addition, the report covers profiles of key industry participants such as Andermatt Biocontrol, Bayer, BioWorks, Inc., Camson Biotechnologies, Corteva, Marrone Bio Innovations Inc, Migrow Agro Solution, Plantix Crop Care, Stockton Biotechnologies, and Valent BioSciences LLC.

Key Benefits For Stakeholders

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- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the nanopesticide market analysis from 2021 to 2031 to identify the prevailing nanopesticide market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the nanopesticide market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global nanopesticide market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Utility

- Food Crop
- Industrial Crop

By Application

- Pest Control
- Packaging
- Others

By Type

- Nanoinsecticides
- Nanoherbicides
- Nanofungicides
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Spain
- Italy
- Rest Of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest Of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa

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- Rest Of LAMEA
- Key Market Players
- ANDERMATT BIOCONTROL AG
- Bayer AG
- BioWorks, Inc.
- Camson Biotechnologies
- Corteva
- Marrone Bio Innovations
- Migrow Agro Solution
- Plantix Crop Care
- Stockton Biotechnologies

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