

Global Molecular Dynamics Simulation Software Market Growth (Status and Outlook) 2023-2029

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Abstracts

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Molecular dynamics (MD) is a computer simulation method for analysing the physical movements of atoms and molecules. The atoms and molecules are allowed to interact for a fixed period of time, giving a view of the dynamic 'evolution' of the system. In the most common version, the trajectories of atoms and molecules are determined by numerically solving Newton's equations of motion for a system of interacting particles, where forces between the particles and their potential energies are often calculated using interatomic potentials or molecular mechanics force fields. The method is applied mostly in chemical physics, materials science, and biophysics.

LPI (LP Information)' newest research report, the "Molecular Dynamics Simulation Software Industry Forecast" looks at past sales and reviews total world Molecular Dynamics Simulation Software sales in 2022, providing a comprehensive analysis by region and market sector of projected Molecular Dynamics Simulation Software sales for 2023 through 2029. With Molecular Dynamics Simulation Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Molecular Dynamics Simulation Software industry.

This Insight Report provides a comprehensive analysis of the global Molecular Dynamics Simulation Software 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 Molecular Dynamics Simulation Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Molecular Dynamics Simulation

Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Molecular Dynamics Simulation Software 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 Molecular Dynamics Simulation Software.

The global Molecular Dynamics Simulation Software market size is projected to grow from US\$ 49 million in 2022 to US\$ 65 million in 2029; it is expected to grow at a CAGR of 4.3% from 2023 to 2029.

Global Molecular Dynamics Software key players include D.E. Shaw Research, YASARA Biosciences, MBN Research Center, Culgi BV, Intel, etc. Global top five players hold a share about 70 %.

Aisa-Pacific is the largest market, with a share about 50%, followed by North America and Europe, having a total share about 45 percent.

In terms of product, GPU-accelerated is the largest segment, with a share about 70%. And in terms of application, the largest application is Materials Science Research, followed by Chemical Physics Research and Biophysics Research.

This report presents a comprehensive overview, market shares, and growth opportunities of Molecular Dynamics Simulation Software market by product type, application, key players and key regions and countries.

Market Segmentation:

Segmentation by type

GPU-accelerated

Working Only On CPU

Segmentation by application

Chemical Physics Research

Materials Science Research

Biophysics Research

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 analyzing the company's coverage, product portfolio, its market penetration.

Abalone

Software for Chemistry & Materials (SCM)

Ascalaph Designer

Avizo (Software)

CHARMM

CP2K

D.E. Shaw Research

GROMACS

GROMOS

LAMMPS

Schrödinger

MBN Explorer

MDynaMix

Molecular Modelling Toolkit

Nanoscale Molecular Dynamics

OpenAtom

PyDIPoly

Q (Software)

SHARC Molecular Dynamics Software

Tinker (Software)

Fraunhofer SCAI

VOTCA

Winmostar

YASARA

Culgi BV

Intel

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