

## Metamaterials Market - Forecasts from 2017 to 2022

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## **Abstracts**

The metamaterials market is projected to grow from US\$0.438 billion in 2017 to US\$1.119 billion in 2022, growing at a CAGR of 20.63% over the forecast period. Metamaterials are smart materials that are intrinsically capable of controlling and manipulating light, sound, and other phenomena. They find application in the telecommunication, medical, optics, defense, and solar industries among other applications. The escalating demand for wireless mobile communication is the key driver of global metamaterials market. Rising aging population and increasing cases of chronic diseases are boosting the demand for various medical instruments and devices, thereby impacting the demand for graphene-based metamaterials from medical instrumentation sector. Demand for higher efficiency solar PV cells and high investments by venture capital firms will provide a great opportunity for the expansion of global metamaterials market in the coming years. Furthermore, the demand for metamaterials will also augment in aerospace and defense segment for various applications such as radomes, cloaking devices, and antennas. North America holds the largest market share of global metamaterials market on account of supportive government initiatives and grants, high investment by venture capital firms in startups, and huge defense budget, especially in the U.S. However, factors such as lack of awareness regarding its commercial use and issues faced in mass production will restrain the growth of global metamaterials market over the forecast period.

## Research Methodology

This section of the report presents detailed research methodology for calculating market size and forecasts, secondary data sources used and the primary inputs which were taken for data validation. This section also outlines various segments which have been covered as part of the report.

### Market Dynamics



Comprehensive market dynamics has been analyzed through key market driving factors, challenges to growth and the opportunities which exist for vendors in the current scenario. This section of the report also provides supplier and industry outlook as a whole; key industry, global and regional regulations which are determining the market growth and a brief technological aspect of Metamaterials Market. Complete industry analysis has also been covered by Porter's Five Forces model as a part of this report section.

## Segmentation

Metamaterials Market has been segmented by product, applications, and geography as follows:

By Product

Photonic metamaterials

Radio and microwave metamaterials

Acoustic metamaterials

Terahertz metamaterials

Others

By Application

**Imaging** 

**Acoustic Devices** 

Communication and Radar Systems

Solar Panels

Others

By Geography

**Americas** 

North America

South America

Europe Middle East and Africa

Europe

Middle East and Africa

Asia Pacific

Market Players

Competitive intelligence section deals with major players in the market, their market shares, growth strategies, products, financials, and recent investments among others. Key industry player profiles as part of this section are Sandvik Materials Technology,



Nanosteel Company, Metamagnetics, Luminus Devices, and Inframat Corporation among other companies.



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