

Photonic Crystals Global Market Status, By Players, Types, Applications And Forecast To 2023

Wiseguyreports.Com Adds "Photonic Crystals -Market Demand, Growth, Opportunities and Analysis Of Top Key Player Forecast To 2023" To Its Research Database

PUNE, MAHARASHTRA, INDIA, May 2, 2019 /EINPresswire.com/ -- [Photonic Crystals Industry](#)

Description

The report forecasts the size of the market in current U.S. dollars for overall components and modules internalizing photonic crystals in value terms for each individual component, as well as in module and volume terms wherever possible, from 2017 through 2023. Estimated values used are based on manufacturers' total revenues. Projected and forecasted revenue values are in constant US dollars, unadjusted for inflation.

The report forecasts the market size for -

- Photonic crystal-enabled components and modules such as LEDs, solar and PV cells, displays, biosensors, image sensors, optical fibers, discrete and integrated optical components, and lasers and supercontinuum sources.
- Forecasts are classified on the basis of application vertical, photonic crystal dimension, geographic region and individual country markets.

The Summary and Highlights chapter provides a snapshot of key findings of the report.

The Overview chapter discusses the theoretical overview of photonic crystals provides an overview of the market size of components and modules internalizing photonic crystals for the duration of 2017- 2023. It also establishes the theoretical ground for better appreciation of the technology and commercial promise of photonic crystals across applications and domains.

Chapters 4 through 11 discuss individual components and modules that employ photonic crystals. Each chapter provides a detailed analysis of the current state of photonic crystal applications. The chapters also discuss the market potential in terms of verticals, dimensions and geographic regions. The basic theory behind these modules and the advantages photonic crystals provide them over conventional methods and material also are examined.

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The U.S. Patent Analysis chapter highlights the patent activity of photonic crystals. The chapter classifies the patents awarded based on functional categories such as design innovations; energy applications of photonic crystals; fabrication and synthesis methodologies; integrated circuits and quantum dots; laser applications of photonic crystals; lighting applications of photonic crystals; photonic crystal fiber applications; sensor applications of photonic crystals and telecommunications applications of photonic crystals.

The Vendor and Stakeholder Analysis chapter details the major stakeholder classes engaged in photonic crystal commercialization. It also analyzes the activities of key players.

Reasons for Doing the Study

BCC Research published its original report on photonic crystals in 2011, followed by updates in 2012 and 2015. In this third update, forecasts are revised slightly upward from previous reports. The upward revision stems from the growing awareness of photonic crystals and a more realistic appraisal of the technology's likely influence on components and modules.

Photonic crystals can rival electrons in terms of sheer versatility, an issue that will certainly inform the approach adopted by different stakeholders toward this technology. This report provides a quantitative roadmap that will analyze this approach.

To accurately chart the scope of photonic crystals poses a challenge. The simplicity of its technical premise opens doors to numerous integration possibilities. This report aims to sort through the most relevant and timely integration approaches by identifying the specific components and modules that may emerge as the largest adopters of photonic crystals. This way, the reader can derive an accurate estimate of the market size of not only the overall picture, but also of specific components and modules in terms of applications, geographical regions and dimensions of the photonic crystals employed. Report Scope

Report Includes:

- 63 data tables
- An overview of the global market for photonic crystals, their materials and technologies
- Analyses of market trends with data from 2017 and 2018, and projections of compound annual growth rates (CAGRs) through 2023
- Description of Photonic crystal enabled components and modules such as LEDs, solar and PV cells, displays, biosensors, image sensors, optical fibers, discrete and integrated optical components as well as lasers and supercontinuum sources
- Detailed analysis of photonic crystal applications and their future demand
- Comprehensive profiles of the major players of the industry, including Canon Kabushiki Kaisha, MicroContinuum, NEC Corp., Obducat and Panasonic

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Universities and Research Laboratories
Technology Transfers
Optical Fiber and Laser Specialists
Integrated Semiconductor Device Manufacturers
Optic-Focused Start-ups
Intellectual Property Acquirers
LED Majors
High-Tech Defense and Aerospace Suppliers
End-User Device Developers
Company Profiles
BAE SYSTEMS
THE BOEING CO.
CANON KABUSHIKI KAISHA
CORNING INC.
CREE INC.
DE LA RUE INTERNATIONAL LTD.
ENRAYTEK OPTOELECTRONICS CO. LTD.
EPISTAR
FIANIUM
FURUKAWA ELECTRIC
GLOPHOTONICS
HAMAMATSU PHOTONICS K.K
HP INC. (HP LABS)
HYUNDAI MOTOR CO.
INFINEON TECHNOLOGIES AG
INTERNATIONAL BUSINESS MACHINES CORP.
JUNO THERAPEUTICS (SRU BIOSYSTEMS)
KEYSIGHT TECHNOLOGIES
LG INNOTEK
LUMILANT INC.
LUMILEDS
LUMINUS INC.
MICROCONTINUUM
NANOBRICK
NEC CORP.
NKT PHOTONICS
OBDUCAT
OMEGA OPTICS INC.
OMNIGUIDE
OPALUX
PANASONIC
PANORAMA SYNERGY
PHOTONIC LATTICE INC.
RADIATION MONITORING DEVICES INC.
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