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Market Analysis

15th World Congress on Nanophotonics and Electronics 2020

Khalil Kassmi

Mohamed Premier University, Faculty of Science, Department of Physics, Director of the Laboratory: Electromagnetism Signal Processing and Renewable Energies LESPRE, Responsible of the Team : Materials Electronics and Renewable Energies MERE Oujda - Morocco, E-mail: <u>khkassmi@yahoo.fr</u>

Intoduction

Worldwide nanophotonics market is relied upon to assemble \$18 billion by 2023, enrolling a CAGR of 7% among the estimation time-frame 2018-2023. Global <u>nanophotonics</u> market is anticipated to witness huge growth in forecasted period due to continuous increasing application of the technology in organic light emitting diodes (OLED), light emitting diodes (LED) and optical communication. In addition, large optical bandwidth and energy-efficient designs provided by nanophotonics are boosting the growth of the market. However, limited commercialization and high cost of the raw materials are some of the major factors which are hampering the growth of the use of nanophotonics is major factors which are creating numerous opportunities for this market. The nanophotonic business is presently concentrating on advancement of effective.

Nanophotonics market is divided into product ingredients, applications and regional. Product wise the market is further segmented to LED, OLED, NFO, photovoltaic cells, optical amplifier, optical switches and holographic data storage system. Based on ingredients used in nanophotonics technology the market is segmented into photonic crystals, plasmonics, nanotubes, nanoribbons and quantum dots. Nanophotonics market owes wide selection of applications in shopper physical science, material science, nonvisible wavelength instruments, nonvisual applications, indicators and others.

Regionally the market is segmented into five regions namely regions North America, Europe, Asia-Pacific, Latin America and Middle East & Africa. The biggest marketplace for nanophotonics exists in North America followed by Europe. The low labour costs and raw materials investment in APAC has helped them to dominate the market to a greater extent.

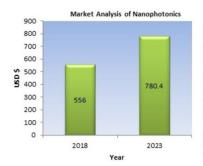
Why to organize this conference

Nanophotonics 2020 conference is a chance to meet others within specialty to organize and to take in the most recent nanophotonics data. Nanophotonics researchers follow a really big variety of goals, in fields starting from photonics to technology, Optoelectronics and electronics etc. The term nanophotonics has been employed in numerous sorts of method like, power physics, optical device doping, optical device ablation, optical systems, optical device engravers medicine industries, optoelectronics devices, bio-nanophotonics ,and receive name credit at this 2-days event.

<u>Nanophotonics 2020</u> Conference is devoted to giving optics specialized gathering in detailing and find out about the most recent innovative work, new applications and advances. It incorporate interesting topics introductions from everywhere throughout the world and expert systems administration with businesses, driving working gatherings and boards. The meeting will be organized to bring together nanotechnology practitioners, optics specialists, lasers and optoelectronics professionals in one platform.

Business value of nanophotonics

Quantum dots, nanoribbons, <u>nanotubes</u>, plasmonics etc, comprises the largest section of nanophotonics market till 2012. The growth of plasmonics is expected to be the highest amongst the above mentioned fields, due to its high potential in energy based products, such as solar cells. More than 70% of overall nanophotonics market is made up by Asia Pacific till 2012, and it is expected to remain as the largest market of nanophotonics in the upcoming years.



> The global market size of nitrides was \$ 556 billion in 2018, and it is expected to reach \$ 780.4 billion by 2023.

> The market growth is driven by the uasge of nanophotonics products and its applications in displays, communications and lighting.

> APAC is expected to grow fastest among the other regions during th eforecast period.

List of Global Universities:-

Top America Universities:

USA

- Virginia Tech
- University At Buffalo, The State University of New York
- Virginia Commonwealth University
- Rochester Institute of Technology
- Foothill College
- University of North Carolina at Greensboro
- INTO University of South Florida
- Harvard University
- University of Florida
- Pennsylvania State University Park Campus
- University of Pennsylvania
- Northeastern University
- North Carolina State University
- University of Central Florida
- Stevens Institute of Technology
- University of Utah
- Wayne State University
- University of Denver
- South Dakota School of Mines And Technology
- Rice University
- University of North Carolina At Charlotte

- University of Connecticut
- Northwestern Polytechnic University
- Stony Brook University
- North Dakota State University
- Texas State Technical College Waco
- University of Wisconsin-Stout
- Rutgers, The State University of New Jersey, Camden
- Northwest Missouri State University
- California University of Pennsylvania
- Louisiana Tech University
- Excelsior College Online Higher Education
- Harrisburg Area Community College
- Montgomery County Community College
- Millersville University
- Lock Haven University of Pennsylvania
- Penn State Fayette, Eberly Campus

Canada

- University of waterloo
- University of Toronto
- Dalhousie University
- University of Alberta
- University of Ottawa
- Carleton university
- The University of British Columbia
- Texas Tech University

Mexico

University of New Mexico

Top European Universities:

United Kingdom

- University of Cambridge
- The University of Southampton
- Imperial College London
- University of Bristol
- Aston University
- University of Glasgow
- The University of Manchester
- The University of Oxford
- Kings college London

Netherland

- University of Twente
- Utrecht University
- University of Amsterdam

Ireland

- Trinity College Dublin
- University college Dublin

Germany

- University of Freiburg
- Johannes Gutenberg University Mainz
- Dresden University of Technology

France

- University Of Strasbourg
- Ecole Normale Supérieure

Top Asian Universities:

Australia

- The university of Sydney
- Macquarie University
- Austrailian National Fabrication Faculty
- Swinburne University of Technology
- Austrailian National University

New Zealand

- The University of Auckland
- University of Otago
- University of Canterbury
- Univerasity of Waikato

China

- Zhejiang University
- Arizona State University
- Tsinghua University
- Shangai Jiao Tong University

South Korea

- Korea University school of electrical engineering
- Sungkyunkwan University
- POSTECH
- Pusan National University
- Hanyang University College of Engineering
- UNIST
- Sejong University

Singapore

- Nanyang Technological University
- Institute Of Bioengineering and nanotechnology

India

- Indian Institute of Technology Delhi
- Indian Institute of Technology Kanpur
- Indian Institute of Technology Roorkee
- SRM University
- IIT Gandhinagar

Indonesia

- University of Indonesia
- Institute of Technology Bandung
- Universitas Gadjah Mada

- Airlangga University
- Brawijaya University

Hong cong

- The Hong Cong Polytechnic University
- The Chinese University of Hong Kong
- City University of Hong Kong

Thailand

- Mahidol University
- Chiang Mai University
- Prince Of Songkla University
- King Mongkut's University of Technology

Russia

• ITMO university

References:

- <u>https://www.bmbf.de/files/Market-Research-Report-Photonics</u>
- <u>https://en.wikipedia.org/wiki/Laser</u>
- https://en.wikipedia.org/wiki/Photonics
- https://en.wikipedia.org/wiki/European_Physical_Society

Conclusion:

Nanophotonics 2020 can gather nanophotonics and optoelectronics specialists from everywhere the planet to debate concerning advancements in photonics, nanophotonics and biophotonics, organicphotonics, photonic integrated circuits, microwave photonics, optoelectronics, optical physics, optical communications and networking, optical device Systems, optics and lasers in medication, technologies in lasers, optics and photonics, bio-inspired photonics, applications and trends in photonics.