



## 2020 Market Analysis of Nanomaterials and Nanotechnology Conference

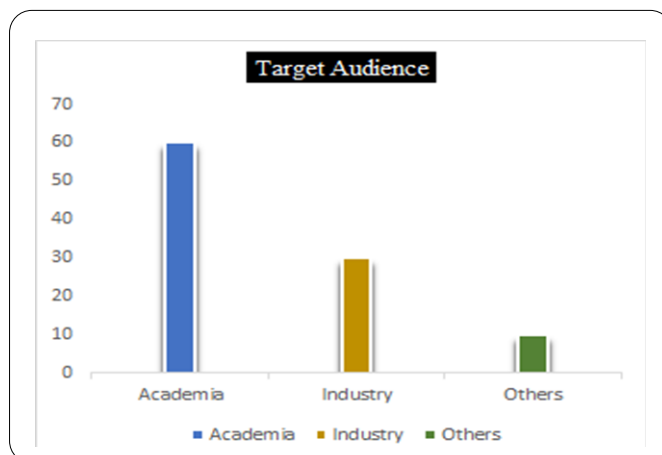
**Mustafa Khamis**

Department of Biology, Chemistry and Environmental Sciences

**\*Corresponding author:** Department of Biology, Chemistry and Environmental Sciences, College of Arts and Sciences, American University of Sharjah, United Arab Emirates, E-mail: mkhamis@aus.edu

Nanotechnology is the improvement and engineering of devices so small that they are measured on a molecular scale. This developing field involves scientists from many different disciplines, including physicists, chemists, engineers, information technologists, and material Researchers, as well as biologists. Nanotechnology is being applied to almost every field imaginable, including electronics, magnetism, information technology, materials development and biomedicine. There are numerous areas of concern in the Nano science and nanotechnology markets which are expectable to be explored in the approaching years, for instance, nanoparticles of metals and semiconductors, nanowires, Nano biological systems and nanotubes.

Nanomaterials Congress 2020 Is the best platform to discuss the basic principles involved in the development of Materials Science and Nanotechnology? As this conference deals with the basics concepts, students, delegates, academicians and business people can attend the conference to root up the knowledge and excel in this field. It encompasses the spectrum of materials



Materials span the range: metals, ceramics, polymers (plastics), semiconductors, and combinations of materials called composites. We live in a world that is both dependent upon and limited by materials. The future will bring ever-increasing challenges and opportunities for new materials and better processing. Materials are evolving faster today than at any time in history.

**Importance & Scope:** Nanotechnology is growing as a several purpose technology with potential applications in many sectors of the global economy, in addition to healthcare, consumer products, energy and agriculture among others. It is often seen as a new industrial revolution, and is incrementally attracting worldwide attention owing to its wide range of end-uses. The global material market was valued at \$149 million in 2015, and is expected to reach \$1,387 million by 2022, growing at a CAGR of 39.7% during the forecast period. Material mediums are defined as macroscopic composites possessing a man-made, three-dimensional, periodic cellular architecture designed to produce an optimized combination, not available in nature, of two or more responses to a specific excitation. They show exceptional physical properties such as negative permeability and

permittivity. The significance of materials is that they allow engineers to manipulate wave propagation by arranging the unit cells in different ways. For example, though copper is a good conductor and appears bronze in colour, a materials designed out of copper can be engineered to be an insulator and reflect yellow. Major factors that drive the market growth are capital investment from public and private sources and highly skilled researchers for product commercialization. In addition, the unique engineered properties of material mediums are not found in nature, making them inherently valuable. However, inefficient research despite huge investment is expected to restrain the market growth. Nanotechnology has huge development prospects owing to a wide range of potential products & applications, and there is an enormous scope for its commercial extension. The global nanotechnology market is expected to grow at a CAGR of around 17.5% during 2016-2022. Thus, there lies a huge chance for industry participants to tap the fast growing market. In the newest research survey, 'Global Nanotechnology Market Outlook 2022' the analyst have conducted a segmented research of the nanotechnology industry and have explicate the key market trends to clearly highlight the areas offering promising possibilities for industries to boost their development. In 2015, the global nanotechnology market has shown impressive development supported by certain prominent factors, like acquiring significant amounts of public and private investments in R&D, partnerships & strategic alliances between the countries. At present, the bio-medical industry is one of the largest sectors in which Nano-enabled products have made crucial contributions, majorly in healthcare industry, with significant growth being done in other topics like electronics and energy as well. In this

report, the analysts have considered the present nanotechnology marketplace on segment basis (by application, by component and by region), while covering the present market scenario as well as contributing forecasts for each of the indicated segments till 2021. The report covers an in-depth analysis of all the important segments, taking into account the key growth taking place at global level, like creations of new opportunities by different countries for nanotechnology industry to develop products in divergent verticals and the emergence of advanced markets that can impel the growth of Nano science and Nanotechnology. The global market for the nanomaterial's in the year 2006 was around US \$14,000, and the global investments are to be increased 50% more by the ending of 2020.

#### Target Audience:

- Nano Scientists.
- Nano Professors.
- Nano Research Scholars and students
- Nanotechnology Companies
- Nanotechnology Associations
- Materials Science and Nanotechnology Engineers
- Materials Scientists/Research Professors
- Scientists.
- Professors.
- Research Scholars and students
- Nanotechnology Companies
- Nanotechnology Associations
- Materials Science and Nanotechnology Engineers
- Materials Scientists/Research Professors
- Physicists/Chemists
- Junior/Senior research fellows of Materials Science/ Nanotechnology/ Polymer Science/
- Biotechnology
- Materials Science Students
- Directors of chemical companies