



2020 Market Analysis

2020 Market Analysis of Applied Nanotechnology Summit China

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Nanotechnology Market 2020-2025

The global nanotechnology market was valued at \$1,055.1 million in 2018, and is projected to reach \$2,231.4 million by 2025, growing at a CAGR of 10.5% from 2020 to 2025. Nanoscience and nanotechnology are the study of nanoparticles and devices, which find their application across all the science fields such as chemical, bio-medical, mechanics, and material science among others. Nanotechnology market encompasses the production and application of physical, chemical, and biological systems and devices at scales ranging from individual atoms or molecules to around 100 nanometers.

Nanotechnology carries a significant impact, and serves as a revolutionary and beneficial technology across various industrial domains, including communication, medicine, transportation, agriculture, energy, materials & manufacturing, consumer products, and households. Emerging use cases and application is expected to be one of the key factors contributing towards the growth of nanotechnology market size. The U.S. National Nanotechnology Initiative has estimated that around 20,000 researchers are working in the field of nanotechnology. For the UK, the Institute of Occupational Medicine has estimated that approximately 2,000 people are employed in new nanotechnology companies and universities where they may be potentially exposed to nanoparticles.

Emergence of self-powered nanotech devices

Advance Material-2020 gives the opportunity to young A nanosystem is composed of not only nanodevices but also nanopower source (nanobattery). For any system to be self-sufficient, it must harness its energy from its surrounding environment and store this harnessed energy for later use. Thus, researchers working in the field of nanotechnology aim to design self-powered Nano systems that exhibit ultra-small size, super sensitivity, extraordinary multi-functionality, and extremely low-power consumption. These systems will be applicable in sensing, medical science, defense technology, and personal electronics.

Keynote Speaker Award

It is extremely important for wireless devices and implanted biomedical devices to be self-powered without using battery. This is attributed to the fact that power source is crucial for independent, sustainable, and continuous operations of implantable biosensors, ultrasensitive chemical & biomolecular sensors, nanorobotics, micro-electromechanical systems, remote & mobile environmental sensors, homeland security, and portable electronics. Thus, the

-near future is anticipated to witness the integration of multifunctional nanodevices into a nanosystem so that it can function as a living species with capabilities of sensing, controlling, communicating, and responding. All these factors add traction to the market and are expected to offer lucrative opportunities for the expansion of the nanotechnology market globally.

Guidelines for Poster

- **Poster Size:** Each poster should be approximately 1x1 M long. The title, contents and the author's information should be clearly visible from a distance of 1-2 feet.
- **Content:** Use fonts such as Arial/Times New Roman in a reasonable font size that should be easy to read.
- The spacing between the lines should also be taken into consideration.
- A very simple format should be used representing all the details about the research carried by the author.
- Long narrated paragraphs should be avoided.
- Short phrases and bulleted points should be used in the poster to present the main highlights of the work done.

Guidelines for Abstract

- Only abstracts submitted in English will be reviewed.
- Abstracts must not exceed 500 words (excluding the title, author affiliation and biography)
- Abstract should follow the instructions on the following template (Abstract Template).
- Do not include references or figures in the keynote abstract.
- Abstract should contain biography, photograph and short description about research
- Abstract must contain presenter name, affiliation and country
- Abstract title and abstract content should be relevant

Key Benefits for Nanotechnology Market:

- This study includes the analytical depiction of the global nanotechnology along with the current trends and future estimations to determine the imminent investment pockets.
- The report presents information regarding the key drivers, restraints, and opportunities.
- The current market is quantitatively analyzed from 2018 to 2025 to highlight the financial competency of the industry.
- Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

