

## Market Analysis on Smart Materials and Nanotechnology

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### Welcome Message

Warm welcome to the **International conference on smart materials and Nanotechnology** which is going to be scheduled during **May 25-26, 2020, Amsterdam, Netherlands**. Smart Materials Congress-2020 brings upon a new platform to share new ideas and discuss all the innovations in the field of material science.

Meet the world eminent specialists and speakers at our conference to speak concerning new advances within the field of material science engineering to develop more innovations that introduced in the field of material science. This will offer a great platform for students and researchers to exhibit their work and obtain recognized amidst the foremost individuals.

I would wish to invite you all for this smart material congress 2020 to make a new Innovations and technologies.

### Market Analysis:

Nanotechnology is doing very well abroad in nations such as USA, UK, Netherlands, Singapore, Germany, and China etc. in terms of R&D. There has been very significant development towards the usage of Nanotechnology in cosmetics, food, and textiles. Nanomedicine is still in R&D stage and extensive growth is yet to be expected and intensive research is being conducted in breakneck speed.

The Global smart Materials market marked for \$36.13 billion in 2017 and is expected to reach \$127.04 billion by 2026 growing at a CAGR of 15% during the forecast period. Some are fueling the market are demand for sensors and actuators in Consumer goods and electronics and aerospace & defense. North America is anticipated to exhibit the considerable growth due to primarily owing to significant demand for smart actuators and motors in key industries such as consumer goods, automotive and aerospace.

The world market for conformal coating on the electronics market is expected to grow at a CAGR of 7% from 2015 to 2020. The global market for polyurethanes has been increasing at a CAGR (2016-2021) of 6.9%, operated by various application industries, such as automotive; bedding and furniture; building and construction; packaging; electronics and footwear. In 2011, the country was reported to have the tenth highest per capita income across the whole world. The 2012 GDP of the country was \$709.5 billion. It is known to have the fifth largest economy in the Euro-zone. The largest industrial sector of the country is its food industry. Electrical goods, metallurgy, machinery, tourism, and chemicals are other important industries.

Materials Engineering is designed to propose comprehensive settings that report topical improvements and new strategies for

expansion of advanced materials for global necessities with an objective to connect a dialogue between industries and academic administrations and knowledge transmission from research work to industry. Surface Science and Engineering, Biomaterials and Tissue Engineering, Materials Engineering, Energy Materials, Mining and Metallurgy, Materials Chemistry, Polymer Technology, Emerging fields in Materials Engineering and Nanotechnology are the essential areas which are covered by [Materials Engineering](#).

It has a vast scope in the upcoming generations. Nanotechnology has the potential to turn out to be a very important revolutionary force for business than the industrial revolution or the information technology revolution.

In fact, many believe that the combined effect of both the industrial and information revolution may approach the magnitude of change that could result from the commercialization of Nanotechnology. In developed countries research is going on for reducing the weight and increasing the strength of the material which will be required in the aeronautics and automotive industry.

Materials engineering is the discovery and designing of new materials, with much prominence on solids. Today's research that contracts with materials science pursue to comprehend and affect the behavior of materials at a variety of measurement scales, ranging from the atomic to the macroscopic levels, making use of practical, theoretical or computational tools are as probes. The experimental researches comprise Nano-science, biological materials, high-thermal materials, the interaction of laser-materials and electrochemical methods with several applications from medicine to renewable energy.

Smart materials congress 2020 which includes prompt Keynote Presentations, Oral Talks, Poster Presentations and Exhibitions. It aims to assemble the Researchers in material science & Nanotechnology, Scientists, Industrialists and Students across the world to meet and discuss the future of [Materials Science](#) and Importance of Material science and engineering in today's world. Smart materials and Nanotechnology which takes place during May 25-26, 2020 in Amsterdam, Netherlands to provide their research results, new ideas and practical experiences.

During this year's Conference, we tend to hope that you simply can grasp the chance to rekindle in-progress connections and spark a new one together with your colleagues from around the globe. With members from around the world centered on learning regarding Smart materials and Nanotechnology, this is often your single best chance to achieve the biggest assemblage of participants from the community.

Here we are happy to invite you all to join our "2nd Global Conference on Smart Materials and Nanotechnology"

## Market Analysis

scheduled to be held in Amsterdam, Netherlands during November 25-26, 2020.

Details of Smart materials Congress 2020, Amsterdam, Netherlands.

Conference Name	Place	Date
Smart materials Congress 2020	Amsterdam, Netherlands	May 25-26, 2020

Smart materials also called as intelligent or responsive materials. They are designed materials that have one or more properties that can be significantly changed in a controlled fashion by **external stimuli**, such as stress, moisture, electric or magnetic fields, light, temperature, Ph or chemical compounds causes transformation of their **material property**. Thus, without any additional stimuli or electronics, changes in property can be encouraged to create sensing devices from these materials. **Smart Polymers**, a kind of smart material are universally used for some progressive applications. Smart materials technology incorporating **piezoelectric transducers** was used in the aerospace industry, optical and micro-gravity experiments.

At the present time, **biomedical approaches** specifically make use of **metamorphic polymers** to improve **drug-delivery systems**, therapies and to improve developments in **tissue engineering** applications. Some of these proposals are based on **biomimetic** approaches, some others depend on the specificity of the variations of temperature, pH, or electrical signals within the living body. The notions behind nanoscience and nanotechnology started with a speech given by physicist Richard Feynman entitled "There's Plenty of Room at the Bottom" at an American Physical Society meeting on December 29, 1959 at California Institute of Technology. Nanotechnology is being used for the extensive range of **medical applications** for the past decade.

### Why to attend?

Smart Materials Congress 2020 offers a wonderful opportunity to Meet the Experts in the field of Smart Materials and

Nanotechnology, by providing collaboration spaces and break-out rooms with tea and lunch for attendees between sessions with invaluable networking time for you. It allows attendees to have issues addressed on Smart Materials and Nanotechnology by wellknown global experts who are up to date with the advanced developments in the Smart Materials and Nanotechnology and provide information on latest techniques and technologies. This International Smart Materials and Nanotechnology conference will provide world renowned keynote speakers, plenary speeches, young research forum, poster presentations, technical workshops and career guidance sessions.



Figure 1: Market analysis for Smart Materials