Message

From: Future Markets, Inc. [info@futuremarketsinc.com]
Sent: 5/5/2020 3:38:47 PM
To: Bahadori, Tina [Bahadori.Tina@epa.gov]
Subject: Nanotechnology and nanomaterials solutions for COVID-19

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Nanotechnology and nanomaterials solutions for COVID-19

Diagnostic testing, antiviral and antimicrobial coatings and surfaces, air-borne filtration, facemasks, PPE, drug delivery and therapeutics

Published: May 5 2020

325 pages, 37 tables, 52 figures

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Price: £825/$1025

Find out more

Nanotechnology and nanomaterials can significantly address the many clinical and public healthcare challenges that have arisen from the coronavirus pandemic. This analysis examines in detail how nanotechnology and nanomaterials can help in the fight against this pandemic disease, and ongoing mitigation strategies. Nano-based products are currently being developed and deployed for the containment, diagnosis, and treatment of Covid-19.

Nanotechnology and nanomaterials promise:

- Improved and virus disabling air filtration.
- Low-cost, scalable detection methods for the detection of viral particles
- Enhanced personal protection equipment (PPE) including facemasks.
- New antiviral vaccine and drug delivery platforms.
- New therapeutic solutions.

Report contents include:

- Market analysis of nano-based diagnostic tests for COVID-19 including nanosensors incorporating gold nanoparticles, iron oxide nanoparticles, graphene, quantum dots, carbon quantum dots and carbon nanotubes. Market revenues adjusted to pandemic outcomes. in-depth company profiles.

- Market analysis of antiviral and antimicrobial nanocoatings for COVID-19 mitigation. Market revenues adjusted to pandemic outcomes. In-depth company profiles.
- Market analysis of air-borne virus filtration including photocatalytic Nano-TiO2 filters, nanofiber filers, nanosilver, nanocellulose, graphene and carbon nanotube filtration. Market revenues adjusted to pandemic outcomes. In-depth company profiles.
- Market analysis of antiviral and antimicrobial nanocoatings for surfaces including fabric (mask, gloves, doctor coats, curtains, bed sheet), metal (lifts, doors handle, nobs, railings, public transport), wood (furniture, floors and partition panels), concrete (hospitals, clinics and isolation wards) and plastics (switches, kitchen and home appliances).
- Market analysis of nano-based facemask and other PPE products. Market revenues adjusted to pandemic outcomes. In-depth company profiles.
- Nanotherapies and drug delivery vehicles currently being produced and clinical trials of vaccines for COVID-19. Market revenues adjusted to pandemic outcomes. In-depth company profiles.
- Key scientific breakthroughs and developments that are underway right now.

Find out more

The Global Market for Antimicrobial, Antiviral, and Antifungal Nanocoatings 2020020

Revised and expanded including 30 pages of new content, additional company profiles and technology development in universities and research centres. Plus recent industry activity to address the global pandemic

Published: April 20 2020

Content: 290 pages, 80 tables, 97 figures

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When the current global crisis has abated, efforts must turn to future preventitive measures. Nanocoatings can demonstrate up to 99.9998% effectiveness against bacteria, formaldehyde, mold and viruses and are up to 1000 times more efficient than previous technologies available on the market. They can work on multiple levels at the same time: antiviral, bacterial and fungal and self-cleaning. Nanocoatings companies are already partnering with global manufacturers to develop anti-viral facemasks, hazard suits and easily applied surface coatings.

Their use makes it possible to provide enhanced antiviral, antibacterial, mold-reducing and TVOC degrading processes, that are non-toxic and environmentally friendly, allowing for exceptional hygiene standards in all areas of work and life. As a result, it is possible create a healthier living and working environment and to offer holistic solutions to people with a diminished immune system. Nano-based surface coatings prevent the spread of bacteria, fungi and viruses via infected surfaces of so called high-traffic objects, such as door and window handles in public places, hospitals, public buildings, schools, elderly homes etc.

Find out more >

The Global Market for Nanofibers
Published March 2020

Nanofibers have exceptionally high surface area-to-volume ratio and high porosity, which makes them attractive materials for a range of applications.

Techniques such as centrifugal spinning, electrospinning, meltblowing and bicomponent spinning have been studied extensively for the production of nanofibers with varying degrees of commercial success. There have also been several new synthesis methods developed.

The market for nanofibers generally encompasses polymer nanofibers, alumina nanofibers and to a lesser extent carbon nanofiber and cellulose nanofibers.

Find out more>

Future Markets Inc., is an advanced technology consultancy with a focus on the development and commercialisation of nanomaterials and nanotechnology. We provide global business intelligence and strategic consulting across a wide-range of technology sectors to industry, governments and investors worldwide, helping clients find new business opportunities in advanced and smart materials.

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