Editorial

iMedPub Journals
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Nano Research & Applications
ISSN 2471-9838

2021
Vol.7No.2:3

Editorial Note on Nano Technology

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Received: February 19, 2021; **Accepted:** February 22, 2021; **Published:** February 26,
2021

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Citation: Nikitha.Y (2021) Editorial Note on Nano technology. Nano Res ApplVol.7 No.2:3

EDITORIAL

Nanotechnology is helping to develop dramatically and even revolutionize many sectors of technology and industry such as IT, Homeland Security, Medicine, Transportation, Energy, Food Security, Environmental Science, and many more. A sampling of the rapidly increasing list of nanotechnology benefits and applications is listed below..

Many of the advantages of nanotechnology are based on the ability to customize material structures at incredibly small scales to achieve unique properties there by significantly expanding the materials science tool kit. Using nanotechnology materials which are stronger, lighter, high reactive, good electrical conductors, more flexible can be produced.

Nano scale additives when added to the fabrics create light weight ballistic energy deflection which can help in creating anti-bacterial, anti-wrinkle, stain proof materials.

Nano scale materials are beginning to allow "smart fabrics" that are washable, durable, equipped with versatile Nano scale sensors and electronics with health tracking, solar energy capture and movement energy harvesting capabilities. Enzyme Nano-bioengineering aims to make it possible to turn cellulose from wood chips, maize stalks, unfertilized perennial grasses, etc., into fuel ethanol.

High-power rechargeable battery systems include Nano-engineered materials in automotive products; thermoelectric temperature control materials; tyres with lower rolling resistance; high-efficiency/low-cost sensors and electronics; thin-film smart solar panels; and fuel additives for cleaner exhaust and extended range.

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Potential applications in a wide range of industrial sectors have been shown for cellulosic nanomaterial, including electronics, building, packaging, food, oil, health care, automotive, and defense. Cellulosic nanomaterial are supposed to be less costly than much other nanomaterial, and they have a high strength-to- weight ratio, among other advantages.