

Weekly Discovery

We SHARE to inspire and ignite ideas!

16 May 2016 –20 May 2016

ADVANCED MANUFACTURING

3D Printing in the Drone Industry



Find out more about 3D printed drones in this [article](#). In particular, you will read about 3D printed drone components, 3D printed quadcopter drones and 3D printed racing drones. You will also find patents that can give you design inspiration.

Source: [Frost & Sullivan](#) (April 2016)

ARCHITECTURE

Santiago Calatrava's WTC Transportation Hub

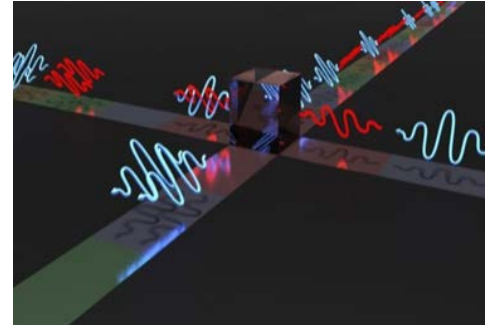


Check out the photographs of Santiago Calatrava's World Trade Center Transportation Hub. They illustrate how the transportation hub assimilates into the life of the city, by capturing the way the structure looks like from unexpected vantage points.

Source: [ArchDaily](#) (May 2016)

CYBERSECURITY

New laser technique promises super-fast and super-secure quantum cryptography



Researchers from the University of Cambridge and Toshiba Research Europe collaborated to invent a virtually unbreakable encryption system, quantum cryptography. Find out how quantum cryptography works in this [article](#) in SUTD library.

Source: [ScienceDaily](#) (April 2016)

DATA STORAGE

A single-atom magnet breaks new ground for future data storage



Data storage devices are getting smaller and smaller over time. However, it has been noted that a magnet generally loses its ability to retain its magnetism, with decreasing size. A team of European scientists built a magnet featuring a single atom of holmium. In addition to this article read this [Journal Article](#) to find out more.

Source: [ScienceDaily](#) (April 2016)

MATERIAL SCIENCE

Novel anti-biofilm nano coating developed



Researchers at a university in Israel recently developed an anti-biofilm nano coating that can prevent dangerous bacteria growth. The coating could eventually be used for medical implants, medical devices and surgical equipment, where there is a need for sterile devices. In addition to this article read this [Journal Article](#).

Source: [ScienceDaily](#) (April 2016)

MEDICAL TECHNOLOGY APP

App for visually impaired uses Google Glass to navigate screen



This app helps the visually impaired to navigate smartphone screens. It was designed by researchers in the US. It was found to be user-friendly and could effectively aid the visually impaired. In addition to this article read this [Journal Article](#).

Source: [The Engineer](#) (April 2016)

Smart Cutaneous Wearables- Medical Device



Find out about smart cutaneous wearable medical devices in this [article](#). You will be able to check out a variety of patents for design inspiration for wearable devices, while gaining an understanding of trends in the wearable medical device industry.

Source: [Frost & Sullivan](#) (April 2016)

Team boosts lithium-ion battery performance



Lithium-ion batteries that do not need to be charged daily. This is because the batteries feature a new thin-film coating technique called atomic layer deposition (ALD). Find out more about the batteries [here](#) at SUTD library.

Source: [ScienceDaily](#) (May 2016)

Wireless Sensors for Defence and Other Applications



This [article](#) discusses wireless sensor technology. It includes applications of this technology, such as corrosion monitoring of pipes as well as strategic insights into the wireless sensor industry. It also features industry patents that may be useful in designing sensors.

Source: [Frost & Sullivan](#) (April 2016)

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