

# Weekly Discovery

We SHARE to inspire and ignite ideas!

20 June 2016 – 24 June 2016

## ROBOTICS

**Forget Driverless Cars, Walmart is Testing Smart Shopping Carts that Can Navigate the Aisles**

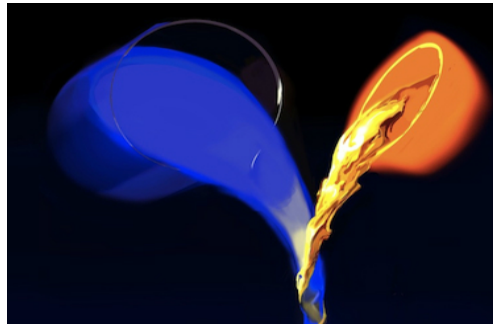


Walmart and Five Elements Robotics are now collaborating to make driverless shopping carts a reality soon. This invention aims to eliminate the inability to find what one needs to buy in the supermarket.

Source: [DailyMail.Com](http://DailyMail.Com) (16 June 2016)

## QUANTUM TECHNOLOGY

**Nanocavity-molecule Coupling Becomes Stronger**



British researchers have designed an [optical cavity technology](#) that could have applications in studying quantum properties of materials, working on quantum information processing and in quantum cryptography. Additional information on this technology can be found at [Nature](#).

Source: [nanotechweb.org](http://nanotechweb.org) (16 June 2016)

## LIGHT-SENSING SYSTEM

**Team Uses Smart Light to Track Human Behavior**

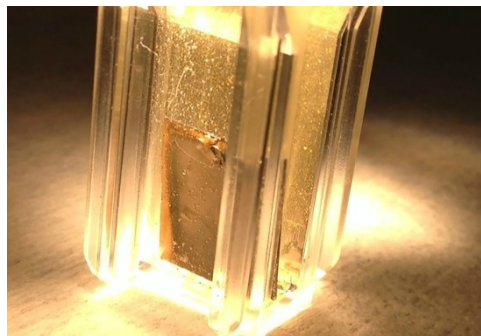


The StarLight system is designed to track a person's behaviour and reconstruct 3D skeleton regardless of furniture obstruction. The technology can be applied to various aspects, such as virtual reality and health monitoring. You may find more information from the [StarLight](#) webpage.

Source: [Phys.org](http://Phys.org) (15 June 2016)

## CLEAN ENERGY

**Startup Creates Renewable Hydrogen Energy out of Sunlight and Water**



To develop [cost-effective clean energy systems](#), researchers exploited a way, inspired by photosynthesis, to produce renewable hydrogen energy using sunlight and water. The approach is promisingly useful in manufacturing hydrogen-powered cars and generating clean electricity.

Source: [Inhabitat](http://Inhabitat) (17 June 2016)

## ELECTRORHEOLOGY

**Healthier Chocolate, Thanks to Electric Fields**



Good news to all chocolate lovers – scientists have discovered a new way to [reduce chocolate fat by 10-20%](#). It is found that infusing electric current into flowing liquid chocolate makes chocolate healthier and tastier as well. In addition, read further about the [electrorheology](#) technology.

Source: [Science](http://Science) (20 June 2016)

## 3D PRINTING

**New Autodesk System Streamlines 3D Printing of Large, Complex Objects**



Project Escher is an innovative 3D printing system that integrates simultaneous and parallel printing of several 3D printers to fabricate a complex large scale product. Visit the [Project Escher](#) website to discover more.

Source: [ArchDaily](http://ArchDaily) (20 June 2016)

## Sphero's Spark+ Can Swim, Paint, and Teach Kids to Code



Sphero Spark+ is a second generation of educational robots that comes with an app that allows kids to get started on coding and learn about robots at the same time. Other than this video, also take a visit to the [Sphero Spark+](#) homepage to find out more.

Source: [The Verge](#) (21 June 2016)

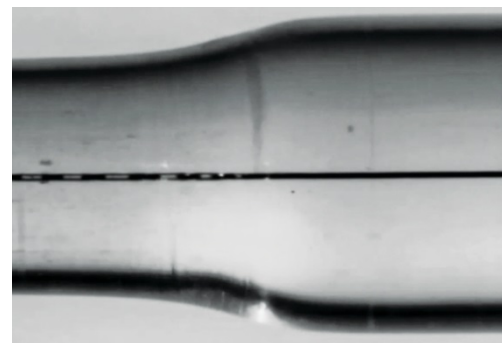
## FT Special Report: Inventions and Patents



This report includes a number of articles on European and U.S. inventions and patents, covering topics on electrical and electronic engineering to pharmaceuticals. Check it out to get inspired and keep abreast in the happenings of patents.

Source: [Financial Times](#) (9 June 2016)

## Opening and Closing Nano-venetian Blinds



The team developed a reversible snip-and-repair method to create micro- and nanoparticles at regular intervals on polymers and brittle materials, which are useful for optical and electronic devices. Additionally, learn more information from [Nature](#).

Source: [c&en](#) (13 June 2016)

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