

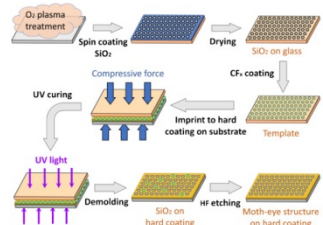
Weekly Discovery

We SHARE to inspire and ignite ideas!

26 June 2017 – 30 June 2017

BIOMIMICRY

Moths Inspire Better Smartphone Screens



Learn about a new [antireflective screen](#) that was designed based on the eyes of moths. This new coating will enable you to view your smart phone in the sun clearly without having to increase the brightness. Read about the research at [OSA](#)

Source: [Scientific American](#) (26 June 2017)

CITIES

How Cities Could Save Us

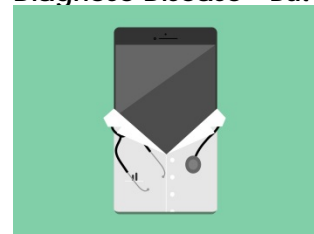


Urban areas can improve the world we live in as well as our lives if we design them to be sustainable. Cities should be designed according to the principles of nature, which included effective use of solar radiation and waste as a resource.

Source: [Nature](#) (20 June 2017)

HEALTH SERVICES

Social Networks May One Day Diagnose Disease—But At A Cost



By using the past behavior of people on social media who are diagnosed with a condition, it could be possible to study the symptoms to have an early diagnosis.

Source: [Wired](#) (26 June 2017)

INNOVATION RANKING

Asia Pacific's Most Innovative Universities – 2017

Rank	University	Country
1	Kaist	South Korea
2	Seoul National University	South Korea
3	National Institute of Advanced Industrial Science and Technology (AIST)	Japan
4	Pohang Institute of Chemical Technology (POSTECH)	South Korea
5	Tsinghua University	South Korea
6	Tsinghua University	China
7	Osaka University	Japan
8	Kyoto University	Japan
9	Seoul National University	South Korea
10	Seoul National University	South Korea

South Korea and China took the lead in the annual Reuters Top 75: Asia's Most Innovative Universities. The list identifies educational institutions that did the most to advance science and invent new technologies.

Source: [Reuters](#) (June 2017)

LATEST TECH

10 Emerging Technologies to Watch

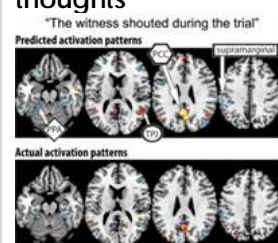


This special report, compiled in a collaboration between Scientific American and the World Economic Forum's Expert Network, features 10 such emerging technologies that could soon make a difference in society and help tackle the world's challenges.

Source: [Scientific American](#) (26 June 2017)

MACHINE LEARNING

Beyond bananas: 'Mind reading' technology decodes complex thoughts



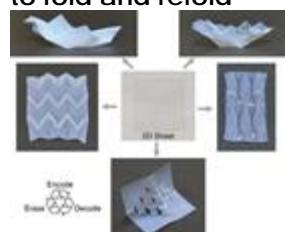
A group of Carnegie Mellon University researchers have utilized machine learning algorithms with brain imaging technology to identify complex thoughts.

Read more at [Human Brain Mapping](#)

Source: [Human Brain Mapping](#) (27 June 2017)

MATERIAL PROGRAMING

Self-folding origami: Chemical programming allows Nafion sheets to fold and refold



Researchers describe how they use simple chemical "programming" on Nafion foil such that heat causes it to fold itself into complex three-dimensional forms. The folds on the foil can also be repeatedly "erased" and "reprogrammed".

Source: [Physics Org](#) (23 June 2017)

POLLUTION

New Pollution Map Offers Unprecedented View of City's Air Quality

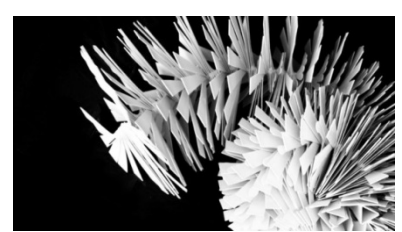


A new method of capturing levels of air pollution shows that pollution levels were way above what is being captured and reported. Read the study at [ACS](#)

Source: [Live Science](#) (21 June 2017)

REPURPOSING

18 "rail-to-trail" projects following in the High Line's footsteps



Places in USA that were once former railway corridors, airfield, abandoned trolley terminals have been transformed to parks, trails and large gardens that can hold fitness activities.

Source: [Dezeen](#) (27 June 2017)

NANO TECHNOLOGY

Customizable 'Smart' Exoskeleton Learns from Your Steps



A suit that collects movement information to efficiently assist people with walking disabilities, injuries and even boost walking performance of healthy people.

Source: [Live Science](#) (20 June 2017)

SOLAR

Capturing More Of The Sun To Split Water



Scientists have invented a new way that is 60 times more effective at producing hydrogen from water by capturing more light. Read the research at [Photocatalysis](#)

Source: [Asian Scientist](#) (27 June 2017)

TOILET TECHNOLOGY

What Makes Japan No. 1 In Toilet Technology



One of the wonders of Japanese toilets is its clever use of technologies and sensors to make response to Nature's call a pleasant experience. Watch a 3 minute video on Japan's toilet technology and you will see why they are the leaders.

Source: [NPR](#) (June 2017)