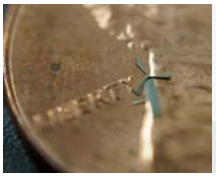
Product Library

Latest news from **Okamura**

mobile phones (116 articles)



scientists develop micro-windmills to recharge

jan 15, 2014

galaxy note 3 wireless charging S-view flip cover

dec 27, 2013

TOP 10 smartphones from 2013

dec 23, 2013

ETH zurich turns smartphones into 3D scanners

dec 11, 2013

laser-cut DIY cellphone project by david mellis

nov 28, 2013

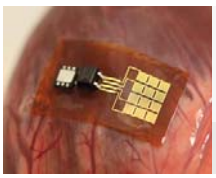
popular today technology

transformation of 1968 yamaha XS650 by thrive

jan 24, 2014

renault f1 presents 760 horsepower 1.6L

jan 24, 2014



nano-ribbon implant produces enough electricity

jan 23, 2014

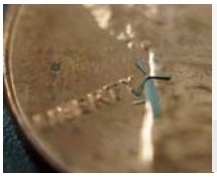
on treehugger: symphony created from bicycle

jan 21, 2014

vintage radios with bluetooth loudspeaker

jan 21, 2014

wind power (28 articles)



scientists develop micro-windmills to recharge

jan 15, 2014

street lights powered by solar and wind energy

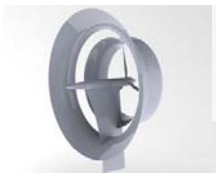
jan 03, 2014

francois xavier saint georges draws montreal

oct 31, 2013

renzo piano's invisible wind turbine

oct 23, 2013

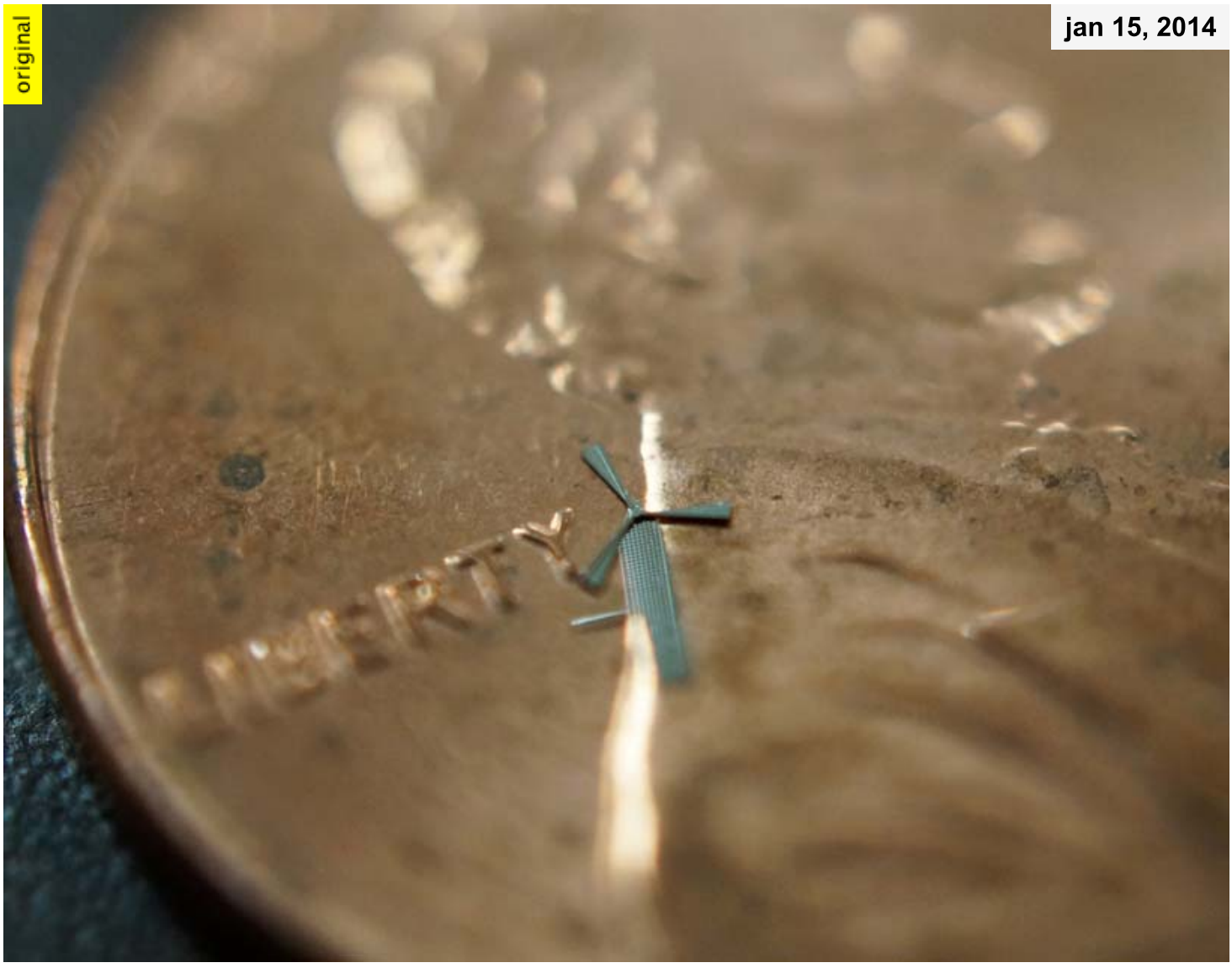


krishan meetoo challenges wind turbine design

aug 14, 2013

original

jan 15, 2014



scientists develop micro-windmills to recharge smartphones

scientists develop micro-windmills to recharge cell phones
image courtesy UT arlington

research associate smitha rao, and J.C. chiao, an electrical engineering professor at the university of texas arlington have designed a micro-windmill capable of generating enough wind energy to recharge cell phone batteries. the device measures about 1.8 mm at its widest point – a single grain of rice could hold about 10 of the minuscule machines. energy created by waving a cell phone in the air or holding it up to an open window on a windy day generates the electricity that is collected by the battery – hundreds of the windmills could potentially be embedded in a sleeve for a smartphone.

'by blending origami concepts into conventional wafer-scale semiconductor device layouts, the design allows for complex 3D moveable mechanical structures to be self-assembled from two-dimensional metal pieces utilizing planar multilayer electroplating techniques,' explain rao and chiao.

video courtesy winMEMS technologies

the new technology could be applied in the future to build micro-robots that can be used as surgical tools, sensing machines to explore disaster zones or manufacturing tools to assemble micro-machines. because of its small size, flat

panels with thousands of windmills can be essentially produced and mounted on the walls of houses or buildings to harvest energy for lighting, security or environmental sensing and wireless communication.

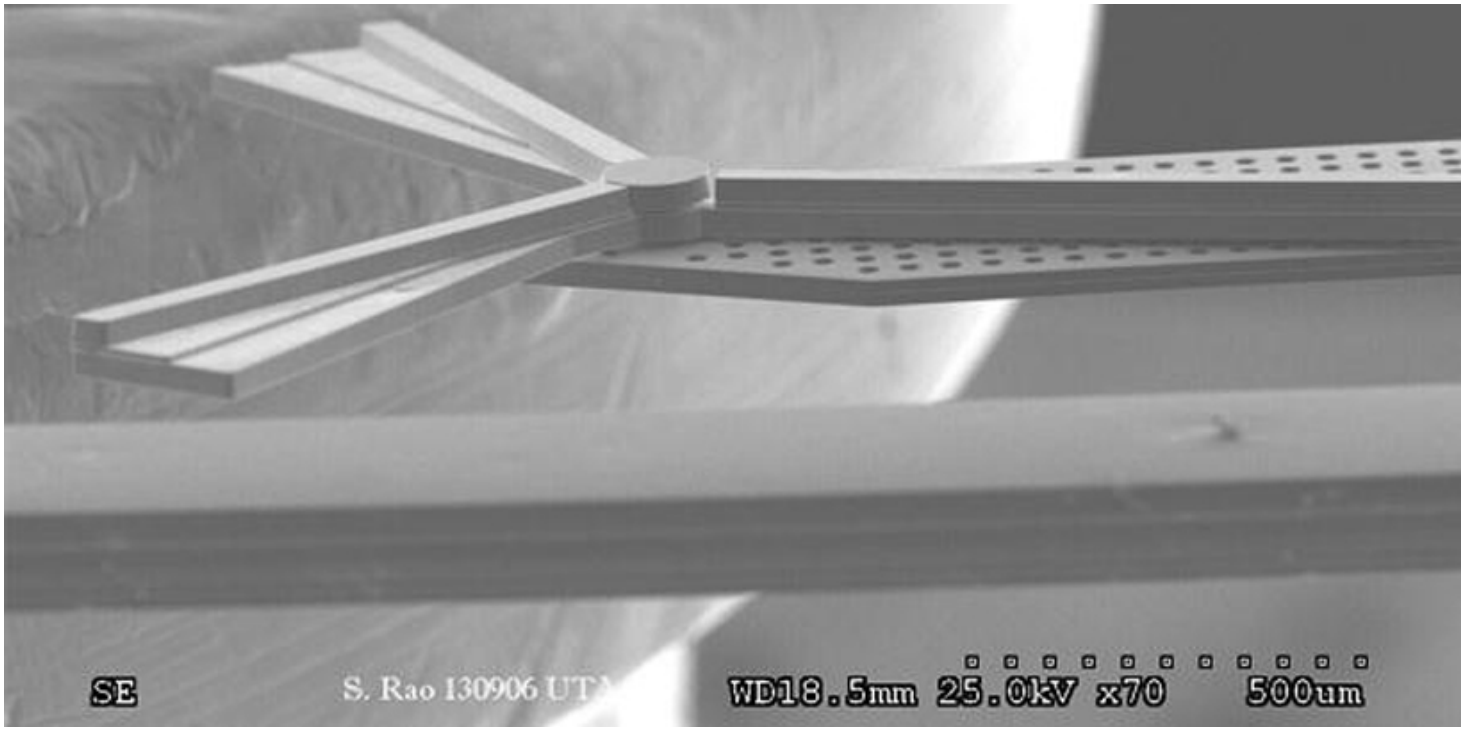


image courtesy winMEMS technologies

rodrigo caula I designboom **jan 15, 2014**

Some misleading stuff here. First, they say “micro-windmill capable of generating enough wind energy to recharge cell phone batteries” but don’t mention that there is actually no generator to make the electric energy. Second, they say they’ve got “…mechanical structures to be self-assembled from two-dimensional metal pieces…” It doesn’t look like self assembly. Rather, it’s just assembly.

James jan 15, 2014

name (required)

e-mail (will not be published) (required)

comments policy

LOG IN VIA

submit

mobile phones (116 articles)

original jan 15, 2014

scientists develop micro-windmills to recharge smartphones

TECHNOLOGY

384 shares

original dec 27, 2013

galaxy note 3 wireless charging S-view flip cover

TECHNOLOGY

105 shares

original dec 23, 2013

TOP 10 smartphones from 2013

TECHNOLOGY

343 shares

wind power (28 articles)

original jan 15, 2014

scientists develop micro-windmills to recharge smartphones

TECHNOLOGY

384 shares

original jan 03, 2014

street lights powered by solar and wind energy are an »

DESIGN

342 shares

original oct 31, 2013

francois xavier saint georges draws on streets of montreal

ART

184 shares

just published technology

original

jan 21, 2014

vintage radios with bluetooth loudspeaker

TECHNOLOGY

UK-based newman radios has adapted original, vintage radios by bringing them up to date with bluetooth »

473 shares

original

jan 20, 2014

custom life-size 3D printed un-born baby fetuses

TECHNOLOGY

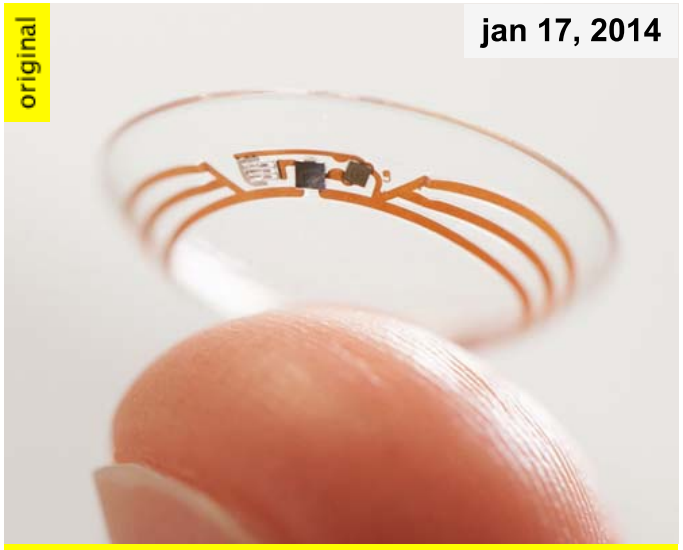
it might sound like an crazy idea from a sci-fi film, but imagine meeting your baby before he or she is born.

3D printing (93 articles)

663 shares

original

jan 17, 2014



google's smart contact lens project helps control diabetes

TECHNOLOGY

google has begun testing on an intelligent contact lens that's built to help control diabetes by measuring »

original

jan 16, 2014

ERA ergonomic bluetooth headset by jawbone

TECHNOLOGY

three years in the making, the wireless device is 42% more compact than its predecessor and boasts enhanced »

google (22 articles)
wearable technology (21 articles)

819 shares

wearable technology (21 articles)
yves behar (40 articles)

231 shares

original

jan 16, 2014

beta.ey spherical glass solar device charger by rawlemon

TECHNOLOGY

the miniature glass lens energy harvesting concept is a solar cell phone charger and atmospheric LED lamp.

rawlemon (3 articles)
solar power (150 articles)

333 shares

original

jan 16, 2014

AUDI urban future initiative: vision of mobility at CES 2014

TECHNOLOGY

the AUDI urban future initiative brings together two worlds: the car and the city.

AUDI (50 articles)
CES 2014 (13 articles)

142 shares

original

jan 16, 2014

original

jan 16, 2014

myris iris authentication scanner by eyelock at CES

TECHNOLOGY

the palm-sized identification reader uses a 20 frame per second video capture of your irises to verify your »

CES 2014 (13 articles)
internet of things (27 articles)

123 shares

adobe announces 3D printing support for photoshop

TECHNOLOGY

turn three-dimensdional images into real-world objects with new 3D printing support in photoshop CC.

3D printing (93 articles)

352 shares