

Graphene shown to enhance light-harvesting performance

RS Components UK Available with free next day delivery - for when you need it. www.ashadegreener.co.uk

Cisco Wireless Solutions
Fast, secure and reliable wireless networking solutions from Cisco! www.cisco.com/uk

75% Off Solar Panels Free Quotes. Apply for £400 Grant. Earn £1,500 Per Year. Apply Now. www.getsolarpanels.co.uk

AdChoices ▷

Submitted by Neelesh Raghuwanshi on Wed, 08/31/2011 - 07:56 Science News TNM



According to new findings reported in the journal Nature Communications, graphene a potential replacement for silicon can be described as a wonder material" which is capable of boosting light-harvesting performance.

Since graphene apparently conducts heat and electricity like no other substance, researchers at the universities of Cambridge and Manchester have demonstrated the graphene can bring about a 20-fold

enhancement in harvesting light - a development which can lead to $\underline{\text{advances}}$ in $\underline{\text{high-speed Internet}}$.

Earlier researches have already shown that generation of <u>electric</u> power is possible by putting two closely-spaced metallic wires on top of graphene and shining light on this so-called plasmonic nanostructure.

Meanwhile, commenting on the new findings, the researchers including Nobel Prize-winning scientists Professors Andre Geim and Kostya Novoselov said that the unique nature of electrons in graphene, along with their high mobility and high velocity, can make the graphene devices can be tens and, potentially, hundreds of times faster than communication rates in the speediest of Internet cables.

Free Electric SolarPanels

Get free solar panels today and get free electricity.

AdChoices >

» Login or register to post comments

Free Electric SolarPanels

Get free solar panels today and get free electricity.

www.ashadegreener.co.uk

Cisco Wireless Solutions

Fast, secure and reliable wireless networking solutions from Cisco!

75% Off Solar Panels

Free Quotes. Apply for £400 Grant. Earn £1,500 Per Year. Apply Now.

AdChoices ▷

Related News

www.getsolarpanels.co.uk

Graphene may power next-generation electronic products Russian physicists bag Nobel award

Intel develops a prototype interconnect that uses light to accelerate data transmission Dazzling blobs shed new light on the universe

Apple may announce new high-speed connection tech soon

http://topnews.net.nz/content/218156-graphene-shown-enhance-light-harvesting-performance

Auckland News

57 New Trains for Auckland: Steven Joyce Auckland's Elderly Care Conference Had Fair Bit of Positive Residues

John Key to Unveil New Health Centre in West Auckland

Liston College of Auckland to Get TB Test Done Measles Outbreak Continues

more

Search this site:

Banking Sector

ASB Condensed Its Home Loan Fixed Interest Rates Reserve Bank to Get Strong Powers to Deal with Finance Companies People Prefer Payments through Cards than Cash Reserve Bank of Australia Retains Same Interest Rate at 4 75% Low Interest Rates Threat to Global Financial Stability, Warns BIS

more

Company News

Genesis Energy Hails for Saving Endangered Blue

Export Prices Reflecting Highest Levels Since 1990 Sprint advises employees to remain tight-lipped about iPhone 5; Irene hits service Bridgestone s tyre choice annoys Rossi Audi to launch A8 hybrid next year

more

Navigation

Popular content Recent posts Feed aggregator

Technology News

Vodafone s Annual Profit Sank By 7.8%

more

Real Estate

Cut-Throat Competition at Auckland Property Market
Quotable Value Announces House Values For Month
of July

Auckland Tops the Chart with Highest Property Rates in the Country

Capital Gains Tax Could Make Housing Less
Affordable For Foreign Investors in NZ
ASB Economist Forecasts House Price Inflation in

User login

Username: *

Page 1 of 3