

# Industry Update: Nanotechnology

## Shrinking Size Of Nanotechnology Circuitry

### Research Update

A team at the University of Colorado at Boulder has developed a new method of reducing the size of circuitry used in nanotechnology devices like computer chips and solar cells by using two separate colors of light. The current method in nanoengineering field uses one color of light that inscribes a pattern on a substrate, but the new system uses a second color to “erase” the edges of the pattern, resulting in a much smaller structure.

*ScienceDaily LLC, April 20, 2009*

Article: <http://www.sciencedaily.com/releases/2009/04/090416111927.htm>

## Improving Performance of Nanotubes in Solar Cells that Produce Hydrogen Gas

Titania nanotubes were found to play an important role in improving the performance of the nanotubes in solar cells that produce hydrogen from water by a research team from Northeastern University and the National Institute of Standards and Technology. In their research they indicate that by controlling the deposition of potassium on the surface of the nanotubes, engineers can achieve a great amount of energy savings in a promising new alternate energy system.

*AZoNano, April 21, 2009*

Article: <http://www.azonano.com/news.asp?newsID=11036>

## Graphene Edges Closer to Atomically Precise Nanotechnology

Graphene is rapidly moving from being “just” a nanotech wonder material to becoming relevant to atomically precise nanotechnologies, according to two articles in *Science*. Graphene, due to its properties as a one-atom-thick two-dimensional surface, has been getting a lot of attention. Major advances in studying and manipulating graphene edges point toward treating graphene nanostructures as atomically precise objects.

*Nanodot, Apr 15, 2009*

Article: <http://www.foresight.org/nanodot/?p=3011>

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