

## Quantum Dots: New Research

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### **Quantum dot solar cell - Wikipedia, the free -**

A quantum dot solar cell is a solar cell design that uses quantum dots as the absorbing photovoltaic material. It attempts to replace bulk materials such as silicon

[http://en.wikipedia.org/wiki/Quantum\\_dot\\_solar\\_cell](http://en.wikipedia.org/wiki/Quantum_dot_solar_cell)

### **Many uses in researching quantum dots - Nanowerk -**

May 03, 2015 Nanotechnology General News. The latest news from academia, regulators research labs and other things of interest

<http://www.nanowerk.com/nanotechnology-news/newsid=39954.php>

### **Quantum dots get a second chance to shine | -**

Quantum dots, semiconductor particles that can emit a rainbow of colors, have been put to work observing living cells, with possible benefits for medical diagnosis.

<https://www.sciencenews.org/article/quantum-dots-get-second-chance-shine>

### **CLEO: 2013 Features New Research in UV Light for -**

CLEO: 2013 Features New Research in UV Light for Food Storage, Printable Quantum Dot LEDs, Printable Quantum Dot LEDs, and Smartphone Disease Detection

[http://www.osa.org/en-us/about\\_osa/newsroom/news\\_releases/2013/cleo\\_2013\\_features\\_new\\_research\\_in\\_uv\\_light\\_for\\_fo/](http://www.osa.org/en-us/about_osa/newsroom/news_releases/2013/cleo_2013_features_new_research_in_uv_light_for_fo/)

### **New solar-cell design based on dots and wires | -**

MIT researchers improve efficiency of quantum-dot photovoltaic system by interspersed with quantum dots made of New solar-cell design based on dots and

<http://newsoffice.mit.edu/2013/nanowires-quantum-dots-solar-cell-0325>

### **Quantum dot - Wikipedia, the free encyclopedia -**

A quantum dot (QD) is a nanocrystal made of semiconductor materials that is small enough to exhibit quantum mechanical properties. Specifically, its excitons are

[http://en.wikipedia.org/wiki/Quantum\\_dot](http://en.wikipedia.org/wiki/Quantum_dot)

### **Quantum dots : new research (Book, 2005) -**

Get this from a library! Quantum dots : new research. [Peter A Ling;]

<http://www.worldcat.org/title/quantum-dots-new-research/oclc/62281904>

### **Global Quantum Dots Market & 5 Consumer -**

The current market for companies selling quantum dots is between \$25 million (conservative) and \$48 million (optimistic) in revenues, with the QD-enabled product

<http://www.marketwatch.com/story/global-quantum-dots-market-5-consumer-electronics-top-emerging-markets-reviewed-in-new-research-reports-at-marketreportsonlinecom-2014-07-24>

### **Quantum dots at Los Alamos -**

LANL Press Release New Los Alamos approach may be key to quantum dot solar cells with real LANL Press Release Nontoxic quantum dot research improves solar cells

<http://quantumdot.lanl.gov/>

### **Quantum Dots Market to Grow at 113% CAGR by 2019 -**

Quantum Dots Market to Grow at 113% CAGR by 2019 Says a New Research Report at ReportsnReports.com - WFLA News Channel 8

<http://www.wfla.com/story/29247448/quantum-dots-market-to-grow-at-113-cagr-by-2019-says-a-new-research-report-at-reportsnreportscom>

### **National Science Foundation award funds UMass -**

Aug 02, 2015 National Science Foundation award funds UMass investigation of quantum dots, research opportunities for community college students

<http://www.gazettenet.com/news/17964731-95/national-science-foundation-award-funds-umass-investigation-of-quantum-dots-research-opportunities-f>

**Chemists design a quantum-dot spectrometer | MIT -**

Chemists design a quantum-dot spectrometer. New instrument is small enough to function within a smartphone, enabling portable light analysis.

<http://newsoffice.mit.edu/2015/quantum-dot-spectrometer-smartphone-0701>

**Quantum Dots and Next-Gen Solar Cells - Solar PV -**

How Quantum Dots Could Double Solar Cell Efficiency Researchers have demonstrated a way to use quantum dots to significantly reduce the amount of energy that solar

<http://www.popularmechanics.com/science/energy/a5886/quantum-next-gen-solar-cells/>

**Quantum Dots News, Research -**

A quantum dot is a semiconductor whose excitons are confined in all three spatial dimensions. As a result, they have properties that are between those of bulk

<http://www.news-medical.net/?tag=/Quantum-Dots>

**Nanoscale Research Letters | Full text | Quantum -**

CdSe quantum dots functionalized with oligo-(phenylene vinylene) (OPV) ligands (CdSe-OPV nanostructures) represent a new class of composite nanomaterials with

<http://www.nanoscalereslett.com/content/2/6/282>

**Nanoparticles and Quantum Dots - School of -**

Nanoparticle and Quantum Dot Research Group Group Leader: AProf. Dr. Richard Tilley. The aim of the Nanoparticle and Quantum Dot Research Group is to synthesise and

<http://www.victoria.ac.nz/scps/research/research-groups/nanoparticles>

**Quantum Dots and Nanoparticles | Exploring the -**

Quantum Dots & Nanoparticles . Introduction; Applications; Introduction. Quantum dots are very, very tiny particules on the order of a nanometer in size.

[http://education.mrsec.wisc.edu/background/quantum\\_dots/](http://education.mrsec.wisc.edu/background/quantum_dots/)

**Quantum Dots: a new nanohighway to renewable -**

Aug 13, 2013 Quantum dots: a new nanohighway to an expanded research team will use quantum dots in tandem with a series of yeast-synthesized enzymes

<http://www.biofuelsdigest.com/bdigest/2013/08/14/quantum-dots-a-new-nanohighway-to-renewable-fuels/>

**NanoSpectroscopy of Quantum Dots - U.S. Naval -**

Scientists in the Electronics Science and Technology Division at the Naval Research Laboratory (NRL) have developed a way to measure, with great clarity

<http://www.nrl.navy.mil/media/new-news-releases/1997/nanospectroscopy-of-quantum-dots>

**Solar-Panel Windows Made Possible by Quantum Dot -**

Windows that double as solar panels could soon be a reality following a breakthrough in quantum dot research that could have significant implications on the way the

<http://www.ibtimes.co.uk/solar-panel-windows-made-possible-by-quantum-dot-breakthrough-1445213>

**Quantum Dot (QD) Market (Material, Product, -**

Quantum dot is small semiconductor in crystal format that is used in business verticals that use display and monitor devices and many other types of equipment.

<http://www.alliedmarketresearch.com/quantum-dots-market>

**Shumway Research Group -**

Simulation Tools. As part of our the broader impact of our NSF-CAREER research grant, we develop and distribute open-source simulation tools for modeling quantum dots.

<http://shumway.physics.asu.edu/>