

## Nano planet

### Solar, infrared and light emitting diode experts met in Chicago to discuss advances in photonic materials and devices

[Nanowerk.com](#) - 9 hours 8 min назад

On July 12 and 13, 2010, experts from across the solar photovoltaics, infrared (IR) photovoltaics and light emitting diode (LED) disciplines met to review and discuss recent progress and future trends in the rapidly advancing fields of photonic materials and devices at the 2010 International Symposium on Optoelectronic Materials and Devices.

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### Simple way to separate nano-pollutants

[Nanowerk.com](#) - 9 hours 8 min назад

The Institute of Physical Chemistry of the Polish Academy of Sciences (IPC PAS) developed an innovative sewage treatment process allowing nanometric size pollutants to be separated.

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### Nanotechnology in food processing, packaging and safety

[Nanowerk.com](#) - 9 hours 8 min назад

This broad and practically oriented course has been put forward to meet the needs from industries to gain knowledge and understanding about current research going on in this expansive field.

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### Hiroyuki Yano featured keynoter at TAPPI nanotechnology conference

[Nanowerk.com](#) - 9 hours 8 min назад

Dr. Hiroyuki Yano will make a keynote presentation at the 2010 International Conference on Nanotechnology for the Forest Products Industry. The theme of this year's event is 'Getting Down to Business with Nanotech Products'.

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### Shanghai Epilight Selects Veeco's MOCVD Systems for Its LED Manufacturing Capacity Ramp

[Nanowerk.com](#) - 9 hours 8 min назад

Veeco Instruments Inc. announced today that during the recently completed second quarter, Shanghai Epilight Technology Company Ltd., one of the largest LED manufacturers in China, placed a multi-tool order for Veeco TurboDisc K465i Metal Organic Chemical Vapor Deposition (MOCVD) systems

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### Fujitsu Adopts Cadence Encounter Conformal ECO Designer

[Nanowerk.com](#) - 9 hours 8 min назад

The technology giant recently deployed the Cadence technology to tape out a network-control large-scale integration design of 40 million gates at a 65-nanometer process.

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### Collaboration leads to simpler method for building varieties of nanocrystal superlattices

[Nanowerk.com](#) - 9 hours 8 min назад

Collaboration by chemists, physicists and materials scientists at the University of Pennsylvania has created a simple and inexpensive method to rapidly grow centimeter-scale membranes of binary nanocrystal superlattices, or BNSLs, by crystallizing a mixture of nanocrystals on a liquid surface.

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### American Society for Nanomedicine (ASNM) to hold international conference

[Nanowerk.com](#) - 9 hours 8 min назад

The American Society for Nanomedicine (ASNM) is holding its second annual conference on October 14-16, 2010 in the Washington, D.C. area, where some of the biggest stakeholders in this emerging technology operate and practice.

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### Researchers share nanotechnology knowledge at NanoFormulation2010 event

[Nanowerk.com](#) - 9 hours 8 min назад

The event brought together 17 research institutions including the University of Sydney, the University of Manchester, Bayer CropScience and the Indian Institute of Technology, Madras, to share their latest advances. 172 delegates attended the conference with 45 scientific posters displayed.

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### Nanomedicine researchers use nanoparticles as destructive beacons to zap tumors

[Nanowerk.com](#) - 9 hours 8 min назад

A group of researchers from Wake Forest University Baptist Medical Center is developing a way to treat cancer by using lasers to light up tiny nanoparticles and destroy tumors with the ensuing heat.

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### Samsung and Toshiba to Support New Standardized NAND Specification for High-performance Applications

[Nanowerk.com](#) - 9 hours 8 min назад

Samsung Electronics Co., Ltd. and Toshiba Corporation today announced their commitment to development of the most advanced high-performance NAND flash memory technology available today - a double data rate (DDR) NAND flash memory with a 400 megabit-per-second (Mbps) interface, toggle DDR 2.0 specification.

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### Innolume Debuts New Generation Quantum DotPump Laser - Enabling Low Cost GPON Reach Extension

[Nanowerk.com](#) - 9 hours 8 min назад

Innolume, the leading provider of Quantum Dot (QD) diode lasers covering the 1064 nm to 1320 nm spectrum, today announced that it has begun sampling the LD-12xx-series laser platform, a new generation of pump laser that is based on the company's proprietary Quantum Dot epitaxial technology.

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### Phenom Pro Suite Generates Answers Not Just Images

[Nanowerk.com](#) - 9 hours 8 min назад

Phenom-World BV, producer of the Phenom desktop scanning electron microscope, announces the launch of a new software product, the Phenom Pro Suite.

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### Carbon nanotubes as transistor material

[Nanowerk.com](#) - 9 hours 8 min назад

ETH Zurich researchers have built a transistor whose crucial element is a carbon nano-tube, suspended between two contacts, with outstanding electronic properties. A novel fabrication approach allowed the scientists to construct a transistor with no gate hysteresis. This opens up new ways to manufacture nano-sensors and components that consume particularly little energy.

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### Researchers simplify process to make nanowires

[Nanowerk.com](#) - 9 hours 8 min назад

Researchers came up with a process simple enough to be achievable with a nine-volt battery. The researchers apply an electrical charge to the nanostructures during the manufacturing process, charging each tiny wire and making it repel its neighbor.

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### Wie man Atome verwirrt

[Nanowerk.com](#) - 9 hours 8 min назад

Neuer Mechanismus der Glasbildung entdeckt.

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### Harmless natural nanoparticles show potential to replace metal-based nanoparticles in sunscreen

[Nanowerk.com](#) - 9 hours 8 min назад

Quite a lot of nanotechnology research and manufacturing efforts go into synthesizing metal-based nanoparticles. Unfortunately, some of the nanoparticle manufacturing processes themselves as well as the final nanoparticle materials may be of potential concern for environmental regulators and for researchers attempting to address nanomaterial toxicity. As an alternative to using these potentially hazardous metal-based nanoparticles, some researchers are suggesting the use of naturally occurring nanoparticles. However, this area has not yet been well explored with regard to natural nanoparticles' diverse properties and potential applications. Researchers have now made the discovery that naturally occurring nanoparticles have unique optical properties. In addition, they are less toxic and biodegradable than their synthesized, metal-based counterparts. This discovery makes it likely that scientists will be able to find more biocompatible nanoparticles to replace metal-based nanoparticles, predominantly for biomedical applications.

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### Dolomite Advances Droplet Research

[Nanowerk.com](#) - 9 hours 8 min назад

New Syringe-based Droplet Starter System enables high throughput droplet experimentations.

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### Riley Solutions Inc. Selected for Competitive Role in DARPA Nano-Enhanced Armored Vehicle Challenge 2010

[Nanowerk.com](#) - 9 hours 8 min назад

Riley Solutions Inc., in close partnership with NanoRidge Materials, Inc., is delivering a groundbreaking armor for rigorous testing against the most destructive small arms fire. The armor is a remarkable blend of the very best in conventional light-armor materials with the most advanced application of nanomaterials.

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### Solexant to Build Its First Nanocrystal Manufacturing Plant in Oregon

[Nanowerk.com](#) - 9 hours 8 min назад

Solexant Corp., developer of third-generation ultrathin-film PV technology, today announced the selection of the city of Gresham, Oregon for the location of its first commercial-scale nanocrystal manufacturing facility.

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