The Lead

Entries open for ECN IMPACT Awards, celebrating excellence in electronics design

August 12, 2014 | Comments

Companies from across the global electronics design landscape are invited to submit their stand-out products and services — in 24 categories — for consideration by a panel of judges for the 2015 ECN IMPACT Awards. The entry period opens today at www.ecnawards.com and ends January 19, 2015....

TOPICS:

- IMPACT Awards
- EDS

Obama takes step to improve government technology

August 12, 2014 3:52 pm | by JULIE PACE and STACY A. ANDERSON, Associated Press | Comments

The White House on Monday announced the creation of a team of digital experts...

Photos of the Day: A self-folding origami robot

August 12, 2014 12:09 pm | by ECN Staff | Comments

This tiny robot from Harvard microrobotics engineers Sam Felton and Robert Wood is a self-...

Photos of the Day: Supermileage car gets 383 MPG

August 5, 2014 12:15 pm | by Freudenberg-NOK Sealing Technologies | Comments

Freudenberg-NOK Sealing Technologies hosted two Concordia University students, along with their...

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Photos of the Day: A vintage look at the Navy's Blue Angels

September 2, 2014 3:06 pm | by ECN Staff | Comments

In her blog, Managing Editor Kasey Panetta gave a great overview of the Navy's Blue Angels, the military's premier flight demonstration squadron. Since 1946, the group has thrilled crowds with its spectacular aerial maneuvers. Here's a look at the early years of the squadron....

TOPICS:

- Photos of the Day
- Military & Aerospace

SEMI announces Vietnam Semiconductor Strategy Summit keynotes and highlights

September 2, 2014 2:25 pm | Comments

SEMI announced the keynotes for the 2nd Vietnam Semiconductor Strategy Summit (September 16-17), an executive conference focused on Vietnam's growing role in the global semiconductor industry. The executive event held at the InterContinental Asiana Saigon Hotel in Ho Chi Minh City, brings together key decision-makers shaping the future of the industry in Vietnam, and international participants from major companies in the ...

TOPICS:

- Newsletters

Consumers better off with electric range less than 100 miles

September 2, 2014 2:04 pm | by ECN Staff | Comments

Until battery cost is cut down to $100 per kilowatt hour, the majority of U.S.

consumers for battery electric vehicles (BEV) will be better off by choosing an electric vehicle with a range below 100 miles, according to a new study in the Articles in Advance section of Transportation Science....

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Mouser Electronics signs global agreement to distribute Broadcom mass market products

September 2, 2014 1:24 pm | Comments

Mouser Electronics, Inc. announced that it has signed a global distribution agreement with Broadcom Corporation. As Broadcom's first eCommerce distributor, Mouser Electronics will offer same-day shipping on a variety of Broadcom mass market products....

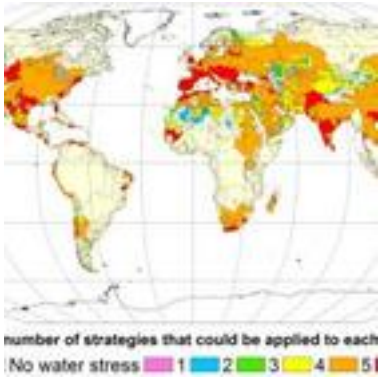
Observing the onset of a magnetic substorm

September 2, 2014 12:55 pm | by EurekAlert! | Comments

Magnetic substorms, the disruptions in geomagnetic activity that cause brightening of aurora, may sometimes be driven by a different process than generally thought, a new study in the *Journal of Geophysical Research: Space Physics* shows....

TOPICS:

- Computing
- Industrial
- Military & Aerospace



Reducing water scarcity possible by 2050

September 2, 2014 12:51 pm | by EurekAlert! | Comments

Water scarcity is not a problem just for the developing world. In California, legislators are currently proposing a $7.5 billion emergency water plan to their voters; and U.S. federal officials last year warned residents of Arizona and Nevada that they could face cuts in Colorado River water deliveries in 2016....

TOPICS:

- Computing
- Consumer
- Medical
- Military & Aerospace

Argonne scientists pioneer strategy for creating new materials

September 2, 2014 12:46 pm | by EurekAlert! | Comments

Making something new is never easy. Scientists constantly theorize about new materials, but when the material is manufactured it doesn't always work as expected. To create a new strategy for designing materials, scientists at the Department of Energy's Argonne National Laboratory combined two different approaches at two different facilities to synthesize new materials....

TOPICS:

- Internet of Things
- Computing
- Distribution & Design Services
- Industrial

Scientists get set for simulated nuclear inspection

September 2, 2014 12:37 pm | by EurekAlert! | Comments

Some 40 scientists and technicians from around the world will descend on Jordan in November to take part in a simulated on-site inspection of a suspected nuclear test site on the banks of the Dead Sea. Playing the part of inspectors, the experts will have access to a wide range of sensor technologies to look for signs of whether a nuclear explosion has taken place....

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- Computing

- Distribution & Design Services
- Optoelectronics & Displays

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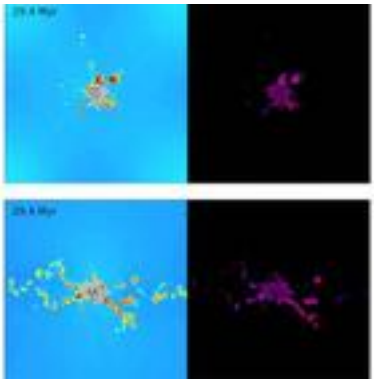
A new synthetic amino acid for an emerging class of drugs

September 2, 2014 12:35 pm | by EurekAlert! | Comments

One of the greatest challenges in modern medicine is developing drugs that are highly effective against a target, but with minimal toxicity and side-effects to the patient. Such properties are directly related to the 3D structure of the drug molecule. Ideally, the drug should have a shape that is perfectly complementary to a disease-causing target, so that it binds it with high specificity....

TOPICS:

- Computing
- Industrial
- Medical



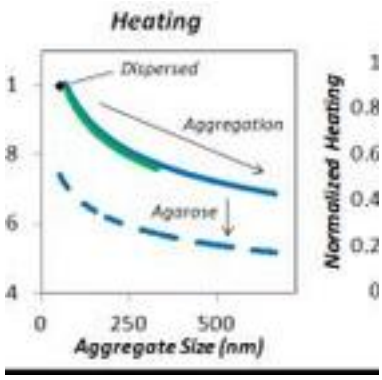
Why sibling stars look alike: Early, fast mixing in star-birth clouds

September 2, 2014 12:30 pm | by EurekAlert! | Comments

Stars are made mostly of hydrogen and helium, but they also contain trace amounts of other elements, such as carbon, oxygen, iron, and even more exotic substances. By carefully measuring the wavelengths (colors) of light coming from a star, astronomers can determine how abundant each of these trace elements is....

TOPICS:

- Computing
- Military & Aerospace
- Power



Accounting for biological aggregation in heating and imaging of magnetic nanoparticles

September 2, 2014 12:09 pm | by EurekAlert! | Comments

Biological aggregation is a critical, yet often overlooked factor in the medical application of nanoparticles. Here we systematically characterize the effects of aggregation on both radiofrequency heating and magnetic resonance image (MRI) contrast of magnetic iron oxide nanoparticles (IONPs), including detailed analysis of the aggregate morphologies based on quasi-fractal descriptions....

TOPICS:

- Computing
- Distribution & Design Services

Nature's tiny engineers

September 2, 2014 11:57 am | by EurekAlert! | Comments

Conventional wisdom has long held that corals — whose calcium-carbonate skeletons form the foundation of coral reefs — are passive organisms that rely entirely on ocean currents to deliver dissolved substances, such as nutrients and oxygen. But now scientists at MIT and the Weizmann Institute of Science (WIS) in Israel have found that they are far from passive....

TOPICS:

- Computing
- Medical

Family dinners reduce effects of cyberbullying in adolescents

September 2, 2014 11:54 am | by EurekAlert! | Comments

Sharing regular family meals with children may help protect them from the effects of cyberbullying, according to a study by McGill professor Frank Elgar, Institute for Health and Social Policy. Because family meal times represent social support and exchanges in the home that benefit adolescents' well-being, Elgar suggests that this family contact and communication can also reduce some of the distressing effects of cyberbullying....

TOPICS:

- Communications, Telecom/Datacom
- Computing
- Consumer
- Optoelectronics & Displays

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Ride-sharing could cut cabs' road time by 30 percent

September 2, 2014 11:47 am | by EurekAlert! | Comments

Cellphone apps that find users car rides in real time are exploding in popularity: The car-service company Uber was recently valued at $18 billion, and even as it faces legal wrangles, a number of companies that provide similar services with licensed taxi cabs have sprung up....

TOPICS:

- Automotive
- Communications, Telecom/Datacom
- Computing
- Consumer
- Wireless

Single laser stops molecular tumbling motion instantly

September 2, 2014 11:45 am | by EurekAlert! | Comments

In the quantum world, making the simple atom behave is one thing, but making the more complex molecule behave is another story. Now Northwestern University scientists have figured out an elegant way to stop a molecule from tumbling so that its potential for new applications can be harnessed: shine a single laser on a trapped molecule and it instantly cools to the temperature of outer space, stopping the rotation of the molecule....

TOPICS:

- Solid-state lighting
- Computing
- Optoelectronics & Displays
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