

## The Lead



### [Photos of the Day: A smartgun that calls for automated backup](#)

December 3, 2014 | by ECN Staff | [Comments](#)

The .9 mm pistol would contain a chip that communicated with the officer's smart phone to send a "yellow" alert when the gun is drawn and a "red" alert when fired. Santa Cruz Sheriff Phil Wowak — whose department is testing the new system ...

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- [Photos of the Day](#)

### [Gift Guide: Get better at sports with smart gear](#)

December 3, 2014 9:40 am | by RON HARRIS, Associated Press | [Comments](#)

Advances in technology present sports enthusiasts with plenty of options to...

## News

Published on Electronic Component News (<http://www.ecnmag.com>)

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### [Gift Guide: Gadgets for avid TV viewers](#)

December 3, 2014 9:28 am | by ANICK JESDANUN, AP Technology Writer | [Comments](#)

For avid television viewers out there, the standard digital-video recorder...

### [Army's mobile satellite network enables rapid fire missions](#)

December 3, 2014 8:56 am | by U.S. Army | [Comments](#)

During the latest test of the Army's mobile tactical communications network, Warfighter...

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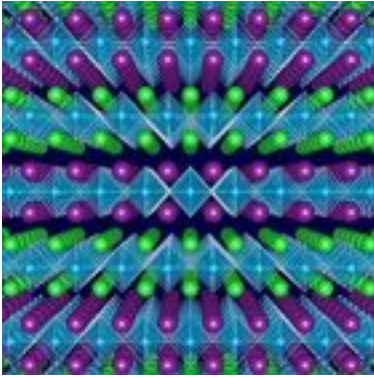
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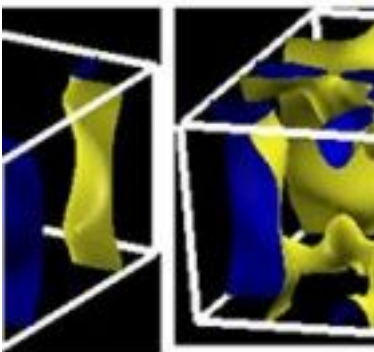
### [Recreating Dick Tracy's wrist radio with Apple Watch](#)

January 30, 2015 4:01 pm | by EurekAlert! | [Comments](#)  
Conceptualized from Dick Tracy's wrist radio, the Apple Watch will not only allow users to communicate with anybody using a smartphone, but is also expected to immerse users into the experience of telepresence: the sensation of their counterparts being physically ...



## [New method allows for greater variation in band gap tunability](#)

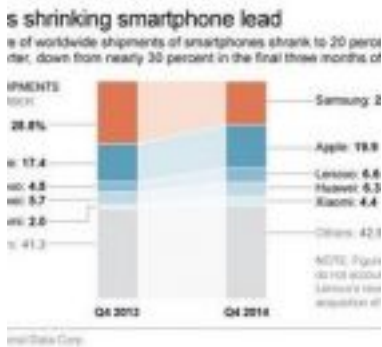
January 30, 2015 3:14 pm | by EurekaAlert! | [Comments](#)  
If you can't find the ideal material, then design a new one. Northwestern University's James Rondinelli uses quantum mechanical calculations to predict and design the properties of new materials by working at the atom-level. His group's latest achievement ...



## [Evidence mounts for quantum criticality theory](#)

January 30, 2015 3:08 pm | by EurekaAlert! | [Comments](#)  
A new study by a team of physicists at Rice University, Zhejiang University, Los Alamos National Laboratory, Florida State University and the Max Planck Institute adds to the growing body of evidence supporting a theory that strange electronic behaviors ...

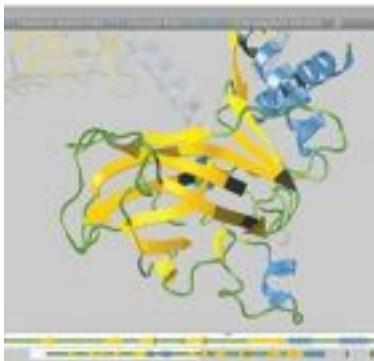
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## [Smartphone Snapshot: Samsung getting squeezed](#)

January 30, 2015 2:46 pm | by BRANDON BAILEY, AP Technology Writer | [Comments](#)

The runaway success of Apple's newest iPhone has fueled a dramatic shift in the global market: the California tech giant is now neck-and-neck with South Korea's Samsung for the title of world's leading seller of smartphones. Apple set the standard for modern ...



## [Powerful tool promises to change the way scientists view proteins](#)

January 30, 2015 12:44 pm | by EurekAlert! | [Comments](#)  
Life scientists now have access to a publicly available web resource that streamlines and simplifies the process of gleaning insight from 3D protein structures. Known as Aquaria, the powerful tool is announced today in Nature Methods. The Aquaria project was led by ...



### [Los Alamos develops new technique for growing high-efficiency perovskite solar cells](#)

January 30, 2015 12:40 pm | by EurekaAlert! | [Comments](#)

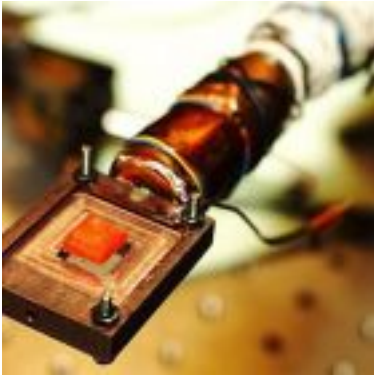
This week in the journal Science, Los Alamos National Laboratory researchers reveal a new solution-based hot-casting technique that allows growth of highly efficient and reproducible solar cells from large-area perovskite crystals. "These perovskite crystals offer ...



### [Complex environments push 'brain' evolution](#)

January 30, 2015 12:36 pm | by EurekaAlert! | [Comments](#)

Little animations trying to master a computer game are teaching neuroscience researchers how the brain evolves when faced with difficult tasks. Neuroscientists at the University of Wisconsin-Madison and Michigan State University have programmed animated critters that ...



## [New light-converting materials point to cheaper, more efficient solar power](#)

January 30, 2015 12:34 pm | by EurekaAlert! | [Comments](#)  
University of Toronto engineers study first single crystal perovskites for new applications Engineers have shone new light on an emerging family of solar-absorbing materials that could clear the way for cheaper and more efficient solar panels and LEDs....

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## [Building trustworthy big data algorithms](#)

January 30, 2015 10:53 am | by EurekaAlert! | [Comments](#)  
Much of our reams of data sit in large databases of unstructured text. Finding insights among emails, text documents, and websites is extremely difficult unless we can search, characterize, and classify their text data in a meaningful way. One of the leading ...



### [MIT accepting applications for Integrated Design program](#)

January 30, 2015 10:48 am | by Megan Crouse, Real-Time Digital Reporter, @abmdigi | [Comments](#)

Are you an engineer or businessperson looking to further your education? Starting in the fall semester, Massachusetts Institute of Technology (MIT) will offer a Master's degree in Integrated Design, geared toward engineering, business and design professionals in the early ...



### [Making smart materials even smarter](#)

January 30, 2015 10:21 am | by EurekAlert! | [Comments](#)

Pablo Tarazaga speaks of solid structures such as aluminum beams as if they were living organisms. From his unique mechanical engineering perspective Tarazaga, of Virginia Tech, wants to grow mechanical waves in solid, one- and two-dimensional materials to ...



## [Army, Air Force Joint Interoperability provides intelligence products for consumers](#)

January 30, 2015 10:13 am | by U.S. Army | [Comments](#)

The U.S. Army Intelligence and Security Command and the Air Force's 480th Intelligence, Surveillance and Reconnaissance Wing are taking the lead in guiding military intelligence units in the analysis of intelligence and creation of the clearest possible products for ...



## ['Anonymized' credit card data not so anonymous, study shows](#)

January 30, 2015 9:48 am | by SETH BORENSTEIN and JACK GILLUM, Associated Press | [Comments](#)

Credit card data isn't quite as anonymous as promised, a new study says. Scientists showed they can identify you with more than 90 percent accuracy by looking at just four purchases, three if the price is included - and this is after companies "anonymized" the transaction ...

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## [How can Google snap its stock out of its stupor?](#)

January 30, 2015 9:42 am | by Michael Liedtke, AP Technology Writer | [Comments](#)

Google has turned into a stock market laggard as the shift to mobile devices has lowered the Internet search leader's digital ad prices and the company's expensive investments in far-out technology has trimmed its profit margins. Those factors have left some investors ...

## [SXSW names Interactive Innovation Award Finalists](#)

January 30, 2015 9:29 am | by Megan Crouse, Real-Time Digital Reporter, @abmdigi | [Comments](#)

A shark-detecting buoy, 3D-printed prosthetic limbs changing lives in Sudan, and a “thinking” music player were among the finalists for the South By Southwest (SXSW) Innovation Awards, to be presented for innovative developments in the Internet of Things, wearables ...

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## Pages

- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)

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- [7](#)
- [8](#)
- [9](#)
- ...
- [next >](#)
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