This Week In













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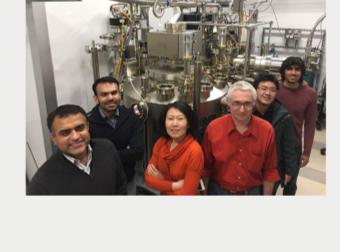


Developing an Eco-Friendly Deep-UV Lamp

nitride (AIN) as active regions, a research group has shown the ability to produce

deep-UV emission with an LED between 232- and 270-nm wavelengths. Currently, most deep-UV lamps are mercury-based and are bulky and inefficient. A deep-UV LED would provide a smaller, more eco-friendly alternative to a mercury lamp.

Using atomically controlled thin monolayers of gallium nitride (GaN) and aluminum



Lasing

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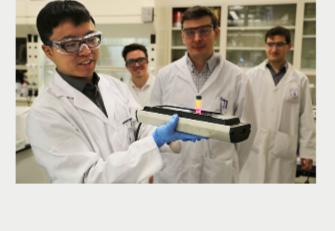




produce continuous laser light that could be brighter, less expensive and more tunable than current devices. Although the ability to produce laser light using colloidal QDs (CQDs) was first demonstrated more than 15 years ago, commercial

A novel method for fabricating lasers uses saucer-shaped quantum dots (QDs) to

application has remained elusive because a very large amount of light is needed to excite the QDs, leading to heating loss and overheating. Most QD lasers are limited to pulses of light lasting just a few nanoseconds. Read Article (4) (in)





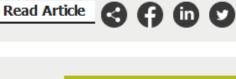


School of Engineering and Applied Sciences (SEAS) say their novel technique could also offer more control over the manipulation and measurement of polarization.

separately with different polarized light could improve holograms for anti-fraud protection and entertainment. Researchers from the Harvard John A. Paulson



Molecules

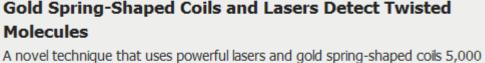






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times thinner than human hair could improve pharmaceutical design,

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small **but** powerful

the way a molecule behaves in the body.

telecommunications and nanorobotics, as it has the ability to detect twisted

molecules. Molecules twist in certain ways and depending on which way they twist can take on left or right handed forms. This twisting — called chirality — changes

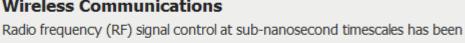
3 A B 0 Read Article Optical Solution to RF Signal Control Could Lead to Faster



Wireless Communications



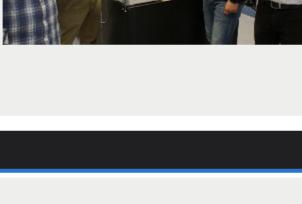




Sydney took an optical tuning approach, controlling and switching RF time delay using integrated optical ring resonators with a fast tuning speed.

demonstrated on a chip-scale optical device, a discovery that could pave the way for improved wireless communication systems. To reduce time delay and improve the functionality of RF photonic signal processing, researchers at the University of

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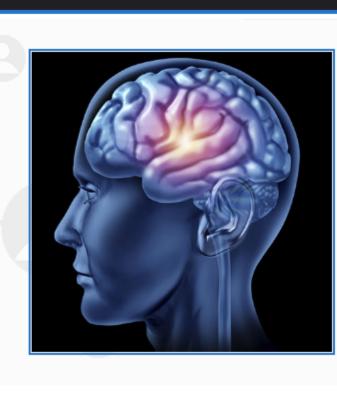
Exhibition will offer 50 technical vision seminars and 30 live demonstration booths, highlighting the latest developments, technologies and applications within the machine vision and imaging industry. With contributions from a range of imaging specialists, the conference will provide a breadth of information through multiple

Ukiva Machine Vision Conference & Exhibition 2017

users and system integrators. The emphasis will be on the benefits that vision technology can bring for a host of different industries and applications. **Webinars** Large-Scale, Deep-Tissue Neuronal Imaging Thu, Apr 20, 2017 1:00 PM - 2:00 PM EDT

training, he worked in X. Sunney Xie's group at Harvard University, and in Meng

More Info



Arena MK, Milton Keynes

Lingjie Kong, Ph.D., will speak on advances in large-scale deep tissue imaging of biological dynamics, focusing on applications in neuroscience. Kong received his Ph.D. in Optical Engineering from Tsinghua University in 2012. For postdoctoral

Purdue University, sequentially. He has recently joined the faculty at Tsinghua University. This webinar is sponsored by Semrock. Register Now

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