

This Week In PHOTONICS

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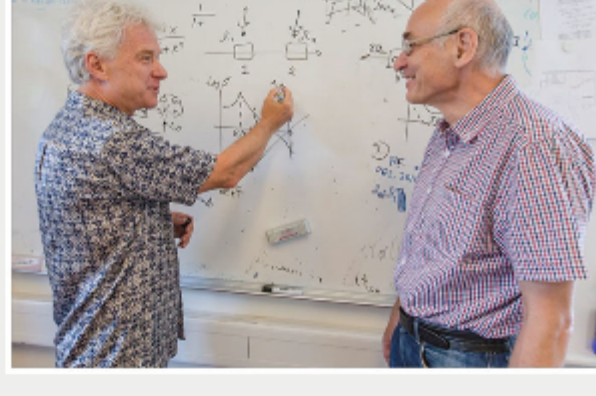
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Top Stories

Scientists Find Way to Overcome Quantum Limit in GWDs

Researchers are developing equipment that will enable gravitational wave detectors (GWDs) to monitor and carry out measurements in an eight times bigger volume of space than what is currently possible. The work to improve the sensitivity of GWDs is based on the team's previous observations about Quantum Back Action (QBA).



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Flexible OLEDs to Provide Customizable Lighting Functionality in Textiles

Scientists have made advances in OLED elements for integrating into textiles. The OLEDs can not only light up in color, but can also be designed in any shape and can be made transparent or dimmable. To simplify the integration of OLED elements in clothing, the researchers developed a functional button that combines a foil-based OLED with a microcontroller on a conventional circuit board.

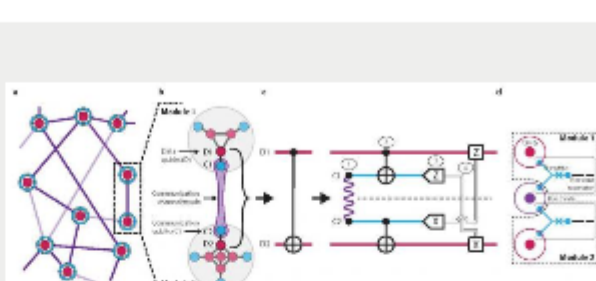


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Quantum Gate Teleportation Could Be Used in Modular Approach to Quantum Architecture

Researchers have demonstrated the on-demand teleportation of a quantum gate between two qubits, an advance that could be useful in a modular approach to building quantum computers. Quantum teleportation is the nonphysical transport of quantum states between two parties.



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Featured Products

Remote Sensing

Photonics Media

From space and the sky around us to firmly on the ground, remote sensing is providing an important view of our surroundings that can't be seen with our eyes alone. A variety of optical technologies are having an impact on applications as diverse as agriculture and defense, weather and climate, and are now part of the...

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Digital Mini-Chrom Monochromators

Optometrics Corporation

The Digital Mini-Chrom (DMC) is a manually operated monochromator that utilizes a digital counter for wavelength selection. Rotation of the dial causes, via a precision lead screw/ sine bar mechanism, rotation of the diffraction grating which positions the selected wavelength at the exit slit.

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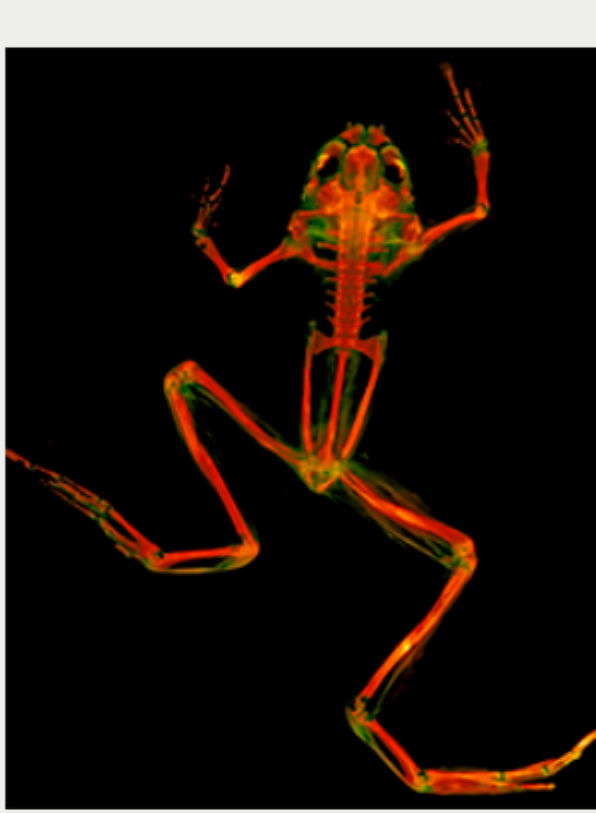
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More News

New Imaging Techniques Improve Researchers' Ability to Visualize Vertebrate Specimens

Imaging techniques pioneered by researchers could enable scientists around the world to better capture complex morphological features of vertebrates for comparative anatomical studies. The team developed two methods for simplifying and improving the digital imaging of vertebrate skeletons and their components.

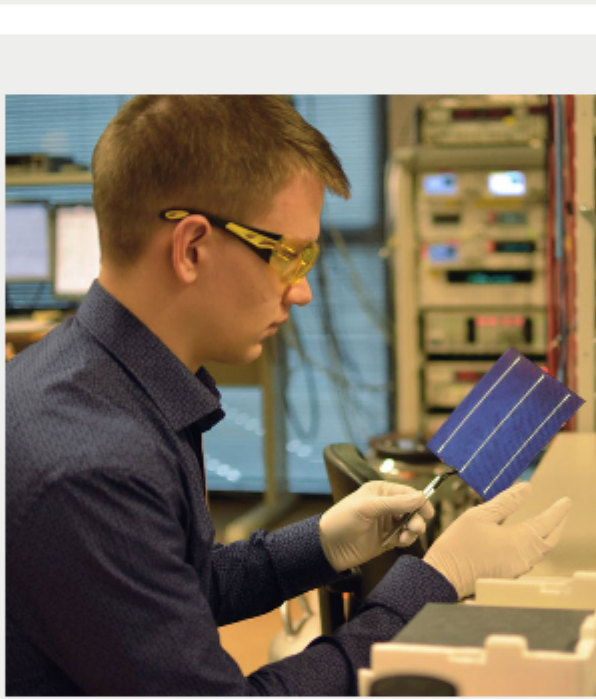


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Dry-Etched Black Silicon Could Lower Solar Power Costs by 10 Percent

Researchers have analyzed the economic potential for industrial application of dry-etched black-Si (b-Si). They found that the increase in the overall cell processing costs resulting from the addition of steps for the etching of the b-Si surface would be overcome by the multiple benefits generated by the nanostructuring process.



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Industry Events

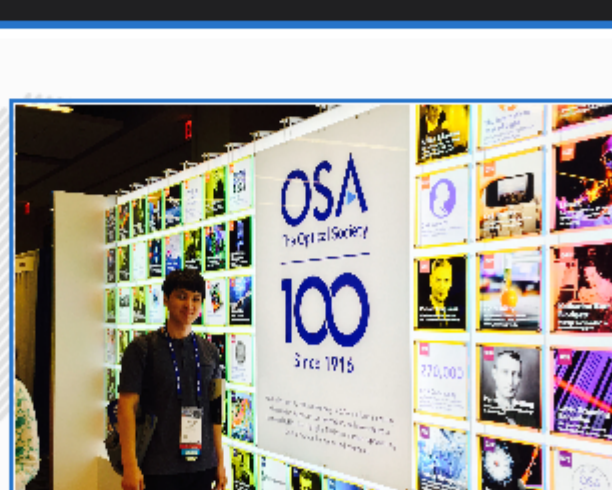
Frontiers in Optics + Laser Science APS/DLS

September 16-20, 2018 - Washington Hilton - Washington United States

Photonics Media Booth: 318

The Optical Society of Laser Science, in partnership with the American Physical Society's Division of Laser Science (DLS), present the OSA Frontiers in Optics + Laser Science APS/DLS. This conference unites communities from both societies for comprehensive and current research in more than 30 optics and photonics topics and across the disciplines of physics, biology and chemistry. The Technical Conference is organized around four themes that leverage the intersection between science and applications: Automatic, Nanophotonics and Plasmonics, Quantum Technologies, and Virtual Reality and Augmented Vision. Image courtesy of OSA, The Optical Society.

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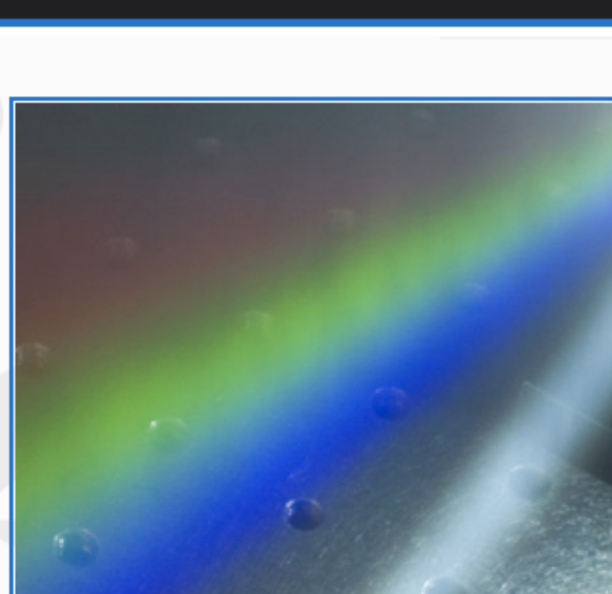
Webinars

Laser Light Sources for Automotive and Specialty Lighting Applications

Tue, Sep 25, 2018 1:00 PM - 2:00 PM EDT

Laser light sources, which can offer more than 10 times the luminance of LEDs, are now being adopted into automotive headlights, specialty lighting, projection displays, and biomedical and industrial applications. This webinar will address the latest advances in laser light sources and the technology that is now being developed to support this progress. Paul Rudy, co-founder of SLD Laser, will discuss the use of GaN laser diodes, phosphor chip technology, and high-luminance packaging to develop new laser light sources. He will introduce SLD Laser's LaserLight illumination source technology and will explain how LaserLight source technology uses a laser-pumped phosphor architecture to deliver safe, high-luminance white-light output. This webinar is sponsored by Lambda Research Corporation.

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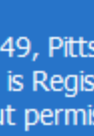
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