

# This Week In PHOTONICS

PHOTONICS MEDIA



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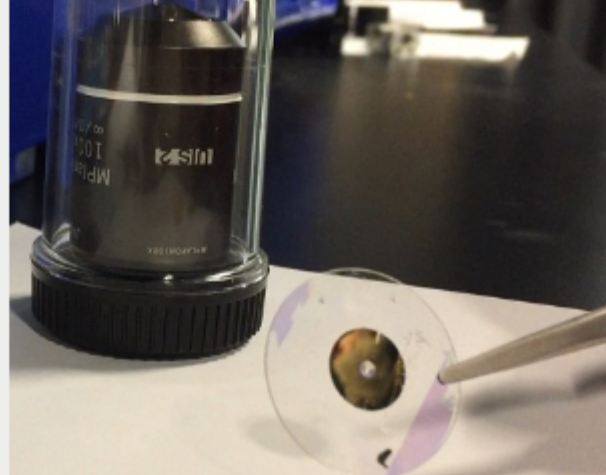
## BE VISIONARY

06 - 08 November 2018, Messe Stuttgart, Germany

### Top Stories

#### Capasso Group Develops Flat Lenses with Same Technology Used to Make Chips

Members of the Capasso Group at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have developed a single flat lens that can focus the entire visible spectrum of light in the same spot and in high resolution.

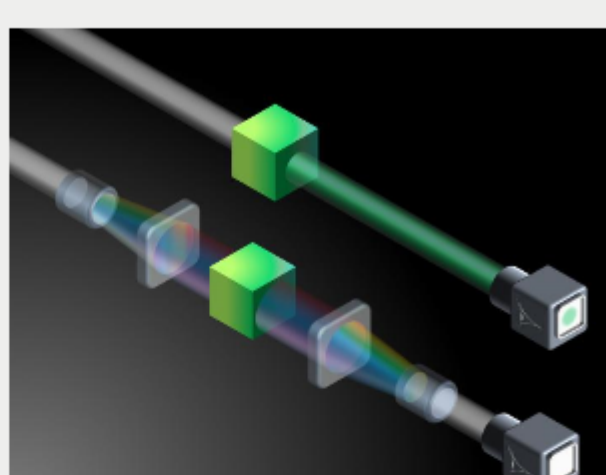


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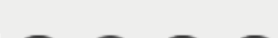


#### Cloaking Approach Manipulates Light as It Passes Through a Target

In a novel approach to invisibility cloaking, the frequency of light waves is manipulated as the light passes through a target object. Called a spectral invisibility cloak, the new device can completely hide objects under broadband illumination, allowing full-field broadband invisibility.

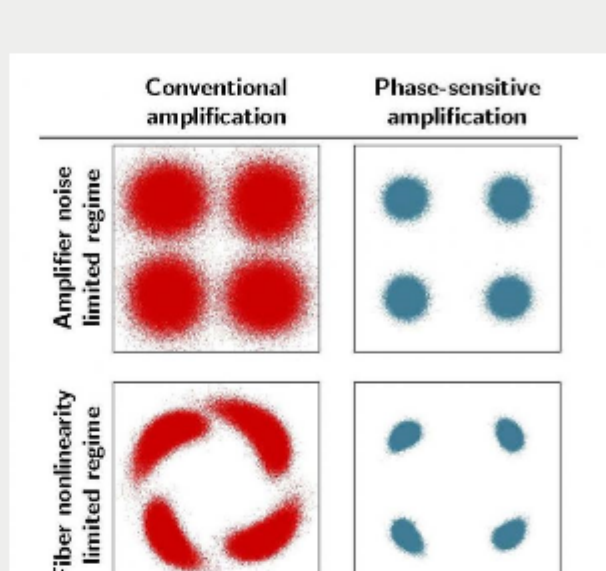


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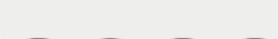


#### Ultralow-Noise Amplifiers Show Exceptional Reach for High-Speed Optical Communications

A fiber optical transmission link of 4000 km was achieved using ultralow-noise phase-sensitive amplifiers (PSAs). This is a reach improvement of almost six times what is possible using conventional optical amplifiers. Researchers used a multichannel-compatible and modulation-format-independent long-haul transmission link with in-line PSAs.

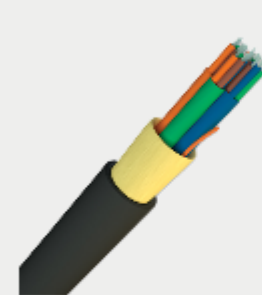


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### Featured Products

#### Micro-Tactical Cable



#### AFL

AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and highly dynamic operating conditions..

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#### Laser Welding Photonic Devices

#### Amada Miyachi America Inc.

AMADA MIYACHI's LF range of fiber lasers are efficient, low maintenance manufacturing tools that offer precise control and a range of beam qualities which can be tuned for each specific welding application. They are particularly well suited for small component welding, like photonic device welding and electrical connections.

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Optical Engineers & Fabricators

### Laser Tech Workshop

October 18 & 19, 2018

Garre Vineyard & Winery, CA

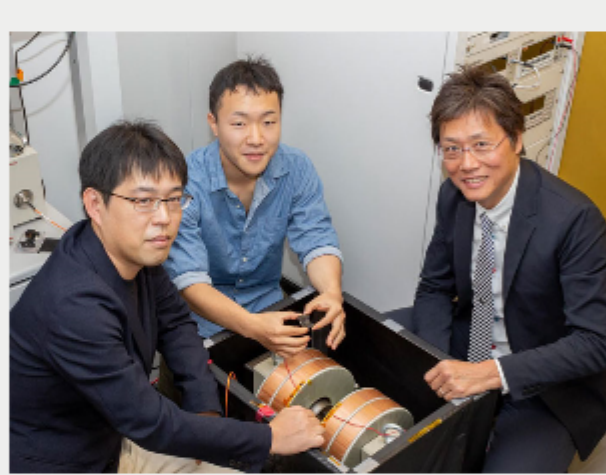
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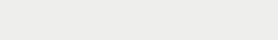
### More News

#### OLED Surpasses 100 Percent Exciton Production Efficiency

In a new approach to improving OLED efficiency, researchers are using singlet fission to split the energy of one exciton in two. This approach has made it possible for the team to exceed the 100 percent limit for exciton production efficiency in OLEDs.

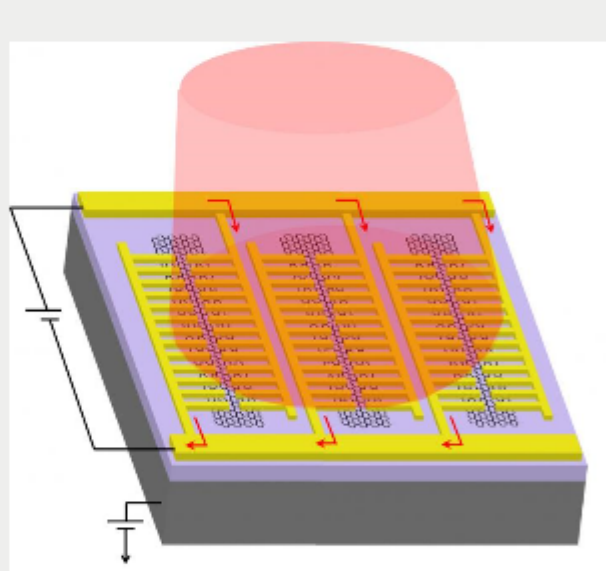


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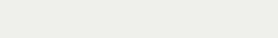


#### Graphene Photodetector Demonstrates Speed, High Responsivity

A new photodetector, made with graphene, can operate across a broader range of wavelengths and process images faster than existing photodetectors. The detector is also more sensitive to low levels of light than current technology.



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### Industry Events

#### Microscopy & Microanalysis 2018

August 5-9, 2018 - Baltimore Convention Center - Baltimore United States

Photonics Media Booth: 405

Microscopy & Microanalysis 2018 will provide ample opportunity to visit with old friends and meet new colleagues who share a common interest in microscope development and applications. This year's full schedule will feature short courses, plenary talks, symposia, and poster presentations on the latest advances in microscopy methods and applications in all scientific fields. Vendor exhibitions will demonstrate the state-of-the-art in instrumentation and accessories for microscopy and microanalysis.

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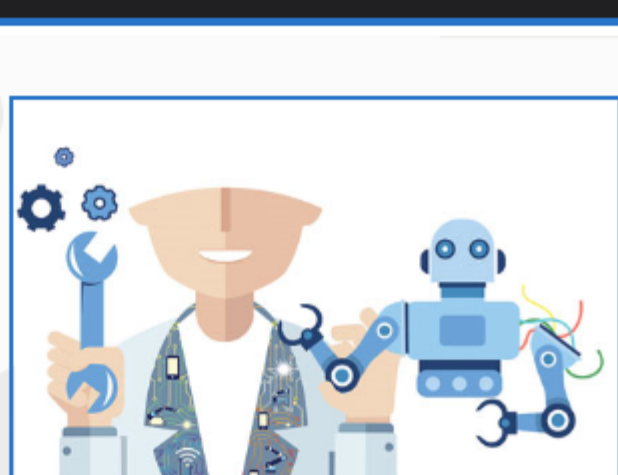
### Webinars

#### Training the New Collar Workforce

Tue, Jul 17, 2018 1:00 PM - 2:00 PM EDT

In this webinar, you will hear the results of interviews with 200 manufacturers on digital fabrication job skills needed in manufacturing today. The presenter's findings lead directly back to innovative training programs that include digital badges to demonstrate hands-on experience with tools like 3D printers, CAD software, and laser machine tools. This one-hour webinar is essential for all manufacturing plant managers, production managers, HR department staff, as well as training specialists, economic development directors, and students.

[Register Now](#)



#### CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at

[Michael.Wheeler@Photonics.com](mailto:Michael.Wheeler@Photonics.com), or use our [online submission form](#).