

# This Week in PHOTONICS

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**Hyperfine Spectrometer**  
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## .: Top Stories

### Plasma Coating Tech Alleviates Indium Reliance for Dimming

Researchers from the University of Sydney have developed a low-cost, sustainable, and readily available technology that can dim the screens of electronic devices, antireflection automobile mirrors, and smart architectural windows at a fraction of the cost of current technology.

[Read Article](#)



### Laser Innovation May Reduce Vibration in High-Power Lasers

The Berkeley Lab Laser Accelerator (BELLA) Center at the U.S. Department of Energy's Lawrence Livermore National Laboratory has developed and tested an optical system to precisely measure and control the position and pointing angle of high-power laser beams with unprecedented accuracy, and without interrupting or disturbing the beams.

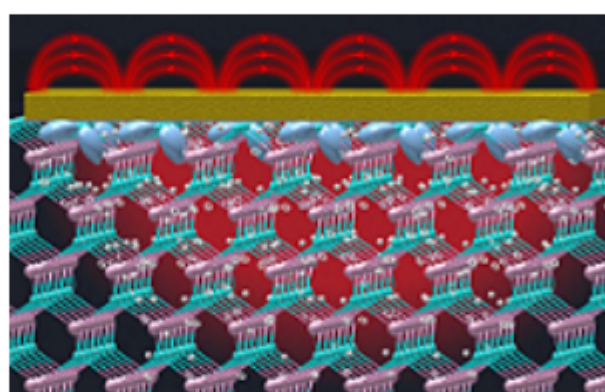
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### Semiconductor Surface States Enhance Wavelength Conversion

Electrical engineers from the UCLA Samueli School of Engineering have introduced a solution to enhance wavelength-conversion efficiency by exploring the phenomenon of semiconductor surface states. The establishes a more efficient way to convert light from one wavelength to another, opening doors to improved imaging, sensing, and communication systems.

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## .: Featured Products



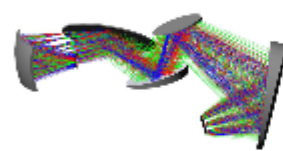
[Successful Advanced Technology Commercialization for Everyone!](#)

**Photonics Media**

A new, 12-lecture course from successful scientist-turned-businessman David Krohn will show you how to identify market opportunities and develop a roadmap for successful commercialization. Commercialization of Innovative Technology through Entrepreneurship – CITE – demonstrates how to move advanced technology into successful commercial products.

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## .: More News

[Injectable Biosensor Converts Brain Activities to Detectable Optical Signals](#)

[Jennifer Barton Elected into SPIE Presidential Chain](#)

[Laser System Undergoes Testing for Industrial Applications](#)

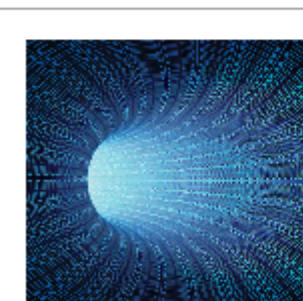
[Octave-Spanning Combs Developed in Aluminum Nitride Resonator](#)

[Optical Technique Delivers Real-Time Measure of Chirality Over Broad Wavelength Range](#)

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## .: Upcoming Webinars

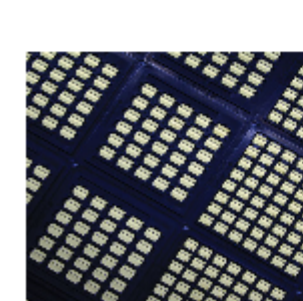


### Toward Global Quantum Networks

Thu, Aug 12, 2021 1:00 PM - 2:00 PM EDT

In this webinar, Liang Jiang, Ph.D., professor at the University of Chicago Pritzker School of Molecular Engineering, introduces quantum technologies demonstrated to boost communication rates over long distances. The end goal: global quantum networks, realized. This webinar is the third presentation in Hamamatsu's Quantum Technologies Series, presented by Hamamatsu Corporation.

[Register Now](#)



### AuSn Thin-Film Technology and AuSn Pre-deposited Substrates for Optoelectronics

Wed, Aug 25, 2021 10:00 AM - 11:00 AM EDT

AuSn thin film is a critical technology to enable an optoelectronic device to ensure durability, anti-oxidation ability and reliability compared with Indium, SnPb, SnBi, and others. In this webinar, Allen Liu of Focuslight Technologies Inc. explains the design, key processes, and application data of high-power laser diode devices. Presented by FocusLight Technologies Inc.

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### CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@photonics.com](mailto:editorial@photonics.com), or use our [online submission form](#).



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