

This Week in PHOTONICS

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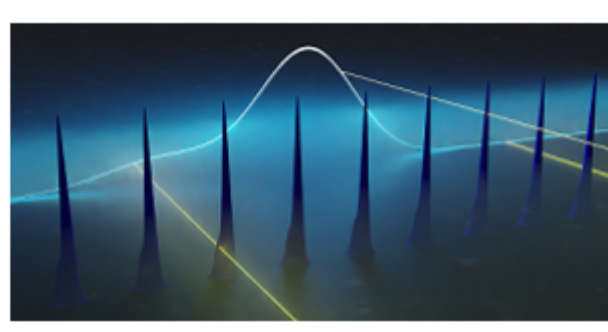
APP NOTE: LAMBDA 1050+ SPECTROMETER
Measure Absorbance & Refractive Index of Thin Films with UV/Vis/NIR



.: Top Stories

Ultrashort Pulses from QCLs Push What's Possible in the Mid-Infrared

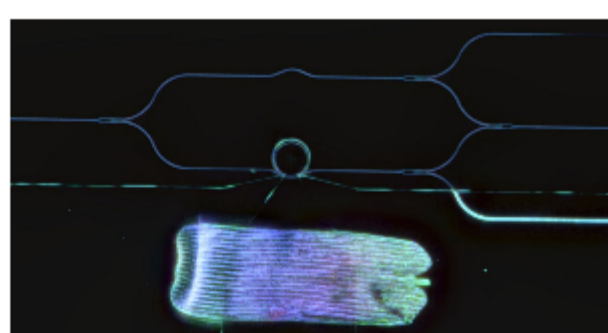
Researchers at ETH Zurich have demonstrated direct femtosecond pulse emission from a QCL in the mid-infrared region. The demonstration, which the ETH Zurich researchers reported is the first of its kind, opens the possibility for novel applications of ultrashort laser pulses.



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Device Modulates Visible Light Without Dimming

Researchers at Columbia University School of Engineering and Applied Science have developed a device that modulates visible light without dimming it, and in a small footprint with low power consumption. The work holds implications for chip-scale lidar, AR/VR, holographic displays, and quantum information.



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Structural Color Gives Sustainable Sparkle to Plant-Based Materials

Glitter is getting an environmentally friendly makeover from scientists at the University of Cambridge, where researchers are developing glitter, in a biodegradable form, that could be used in place of materials that include toxic or unsustainable compounds.



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.: Featured Products



Wide Beam Imager for SWIR Range

Ophir, Photonics
 Ophir WB-I SWIR is a compact, calibrated optical system for measuring size and power distribution of large and divergent beams of VCSELs and LEDs in the SWIR range (900 - 1700 nm). Images any beam shape (round, line, square, doughnut) too large for a camera sensor, with angle of incidence to 70 degrees.

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Energy Sensor for Femto Lasers

LaserPoint srl
 BLINK High Speed is the latest LaserPoint's achievement specifically developed to measure ultrafast lasers with pulse duration down to femtoseconds. It is the ultimate solution for whatever application requiring: accurate energy measurements for ultrafast pulsed lasers, monitoring of fast manufacturing processes in...

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.: Upcoming Webinars



Optical Fused Silica Large-Core Fibers: The Influence of Design and Material on Fiber Performance

Wed, Dec 8, 2021 1:00 PM - 2:00 PM EST

Optical fibers are used in a wide variety of applications, including biomedical procedures, industrial laser cutting and welding, and spectroscopy. Fused silica is often the material of choice. Nevertheless, there are several variations of fused silica that can influence fiber performance. Additional factors--such as numerical aperture or cladding-to-core ratio--have an impact. In this webinar, learn how different design parameters and materials influence performance and how to perfect the fiber design for specific applications. Presented by Heraeus Conamic (Heraeus Quarzglas GmbH & Co. KG).

[Register Now](#)



Epitaxy and Processing: VCSELs, QCLs, and InGaAs Detectors

Thu, Dec 16, 2021 10:00 AM - 11:00 AM EST

The webinar offers perspective to industry specialists and experts who share a technological interest in the epitaxy, processing, and integration of vertical-cavity surface-emitting lasers (VCSELs), quantum cascade lasers (QCLs), and indium gallium arsenide (InGaAs) devices. Włodzimierz Strupinski, Ph.D., and Marcin Gebiski, Ph.D., of VIGO System SA explain the manufacturing process for achieving state-of-the-art compound semiconductors and devices. They are joined by colleagues, Iwona Pasternak, Ph.D., Walery Kolkowski, Ph.D., and Jacek Strupinski, Ph.D., for a live Q&A and industry discussion at the end of the webinar. Presented by VIGO System SA.

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.: All Things Photonics

In this week's episode, serial entrepreneur and co-founder and CTO of Luminar Technologies *Jason Eichenholz* discusses the company's technology, and shares his thoughts on lidar's surge into the mainstream. The interview examines Luminar's acquisition of its exclusive InGaAs chip provider, the (near) future of autonomous driving, and the optics and photonics industries' technical workforce shortage.

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