

# This Week in PHOTONICS



**Extend the range of your LiDAR innovation with NEW Generation 2, 905nm Pulsed Laser Diodes**

• 20% Output gain • Improved power efficiency • High-volume affordability

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## .: Top Stories

### Laser Method Makes Mid-IR Pulsing More Practical

Research efforts from Vienna University of Technology, in collaboration with Harvard University, have led to the development of a laser method that increases the practicality and usability of mid-infrared pulsed lasing. Infrared lasers capable of generating short and intense pulses are desirable for applications such as molecular detection.

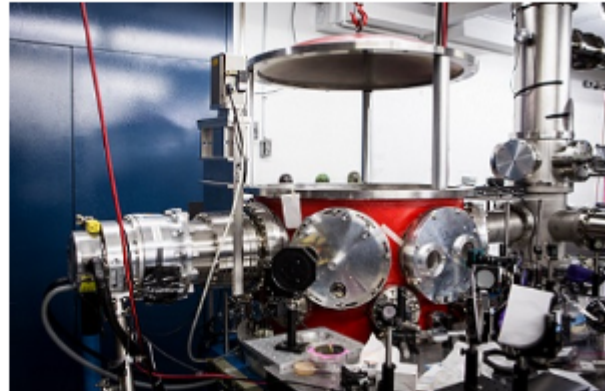
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### Pushing the Boundaries of High-Energy Laser Pulses

INRS researchers have pushed the boundaries of high-energy laser pulse propagation, with reliance on the observation of high-energy multidimensional solitary states (MDSS), allowing the direct generation of extremely short and intense laser pulses that are highly stable in time and space.

[Read Article](#)



### Ultrafast Manufacturing of Perovskite Solar Modules

An ultrafast method for manufacturing and assembling stable perovskite solar modules has been developed at Stanford University. The technique, according to study author Reinhold Dauskardt, resolves some of the most formidable barriers to module-scale manufacturing that have vexed researchers for years.

[Read Article](#)



## .: Featured Products

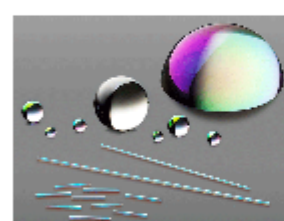
### Optical Fabrication

#### Photonics Media

Optical Fabrication is a new book for anyone working on or interested in the methods, materials and measurement techniques used in modern lens and optical component manufacturing. The book will serve as an introduction or update, moving beyond methods and materials to design and complex modern applications.

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### AR Conformal Coatings

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2021

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## .: More News

**Optics, Machine Vision Algorithms at Heart of Epic-USC Collaboration** [Read Article](#)

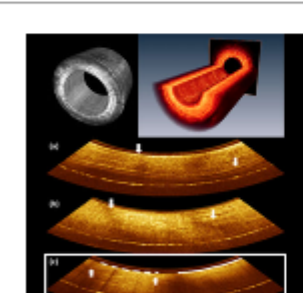
**Synopsys Acquires Light Tec** [Read Article](#)

**Collaboration Among Trumpf, Zeiss, Fraunhofer Yields Federal Prize** [Read Article](#)

**Multipass Spectroscopy Method Enables Disease-Detecting Breath Test** [Read Article](#)

**Observing Nonlinear Ionization Dynamics of Hot Dense Plasma** [Read Article](#)

## .: Upcoming Webinars



### Endoscopic Optical Coherence Tomography

Wed, Dec 9, 2020 1:00 PM - 2:00 PM EST

In this webinar, Hui Wang, Ph.D., will give a technical overview about the development, application, and the future of endoscopic optical coherence tomography (OCT).

[Register Now](#)

## .: All Things Photonics

In this episode of *All Things Photonics*, Ian Walmsley, elected fellow of the esteemed Royal Society and provost of Imperial College London, guides us through the field of quantum information processing and computing. Manos Anyfantakis, from the University of Luxembourg's Experimental Soft Matter Physics group, shares his team's latest breakthrough: achieving structural colors, with applications in biobased sensing and dyeing.

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