

# This Week in PHOTONICS

PHOTONICS MEDIA [photonics.com](http://photonics.com)



## .: Top Stories

### Laser Signal Transmission Bypasses Atmospheric Distortion

Researchers from the International Centre for Radio Astronomy Research (ICRAR) and the University of Western Australia (UWA) claimed a world record for what the team is calling the most stable transmission of a laser signal through the atmosphere. The work stems from a collaboration between the scientists from UWA and ICRAR with researchers at the French National Centre for Space Studies and the French metrology lab Systèmes de Référence Temps-Espace at Paris Observatory.

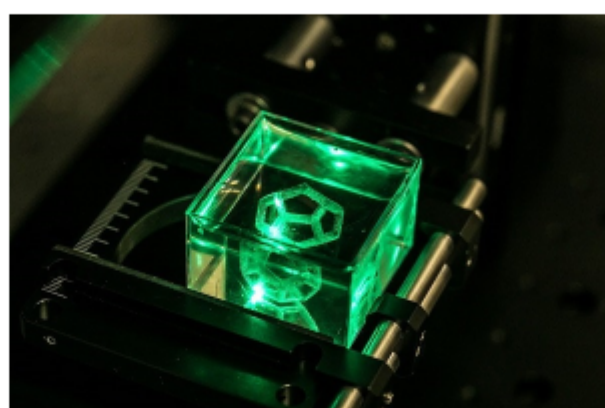
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### Laser-Based Method Enables 3D-Printed Glass with Intricate Detail

A laser-powered polymerization process for 3D-printing applications overcomes the need to build a 3D-printed object one layer at a time. A research team from France's Fresnel Institute and École Centrale de Marseille introduced the method, using it to create miniature models of a bicycle and even the Eiffel Tower from silica glass.

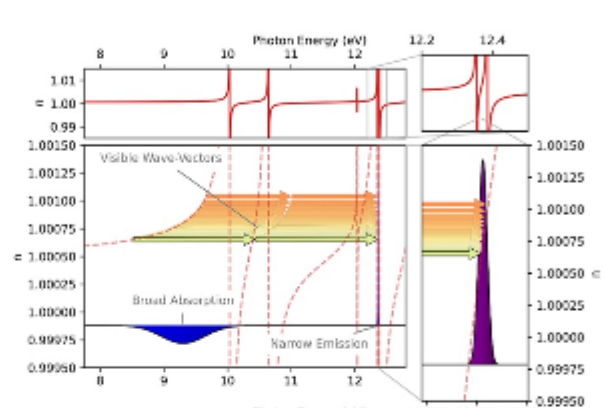
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### Extreme UV Created from White Light

A method of modifying the spectral width of extreme ultraviolet light (EUV) has been developed by researchers at the Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy. The scientists used a novel phase-matching scheme in four-wave mixing, which allowed them to compress the spectral width of the initial broadband light by more than a hundred times.

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## .: Featured Products



### Optical Biomedical Imaging

**Photonics Media**  
At last, a reference work has been compiled that offers in one place a broad survey of technologies, applications and markets for optical biomedical imaging, as only Photonics Media could produce it. This collection is a practical resource for those engaged in the research and development of relevant technologies...

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### Optical Filters for Covid Testing

#### Delta Optical Thin Film A/S

Point of Care (PoC) instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. Our optical filters are all designed for the next generation of PoC instruments and they have been used in clinical applications in the biotech, biomedical, and drug discovery sectors.

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## .: More News

**For Lumentum, Coherent Acquisition Is Timely, Complementary, Analysts Say** [Read Article](#)

**Federico Capasso Awarded 2021 Frederic Ives Medal/Jarus W. Quinn Prize** [Read Article](#)

**Capasso Group's Largest Metalens to Date Demonstrates Potential in VR** [Read Article](#)

**Holographic Display Improvements Enhance Virtual and Augmented Reality** [Read Article](#)

**Miniaturization of Optical Components Enables Atom Cooling** [Read Article](#)

## .: Upcoming Webinars

### Fourier Transform Infrared (FTIR) Spectrometer: Theory, Practice, and Applications

Wed, Feb 10, 2021 1:00 PM - 2:00 PM EST

This webinar with John D. Gilmore and Slawomir Piatek, Ph.D., of Hamamatsu will review the basic theory behind a Michelson-Morley interferometer, and will apply it directly to today's modern MEMS-based FTIR engines. The presenters will compare traditional grating-based spectrometers with FTIR, and the associated technological limitations, such as spectral coverage, signal to noise ratio and noise induced by mechanical vibration. Participants will witness a live MEMS FTIR product demonstration and will learn about FTIR applications and some market challenges and solutions. Presented by Hamamatsu Corporation.

[Register Now](#)

## .: All Things Photonics

Jess Wade from Imperial College London's Blakett Laboratory kicks off Season 3 of *All Things Photonics* with expert insights on OLEDs, chiral materials, and the not-so-clear-cut relationship between science and equity. Through the lens of SPIE's very first Diversity Outreach Award winner, listeners will enjoy a candid conversation on topics ranging from polymer conjugation to breaking biases in STEM and beyond.

[Listen Now](#)



### 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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