

This Week in PHOTONICS

PHOTONICS MEDIA photonics.com

READ MORE



APP NOTE: LAMBDA 1050+ SPECTROMETER

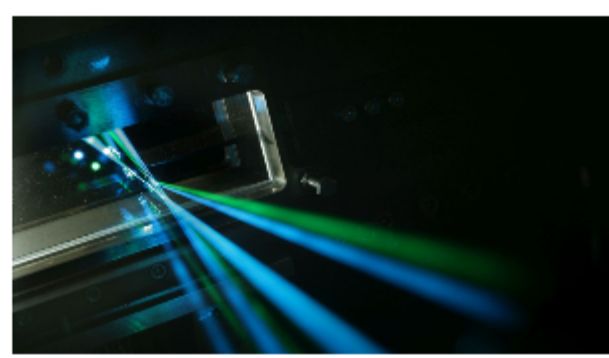
Measure Absorbance & Refractive Index of Thin Films with UV/Vis/NIR



Top Stories

Data Hacks Demonstrate Networks' Need for Optical Protections

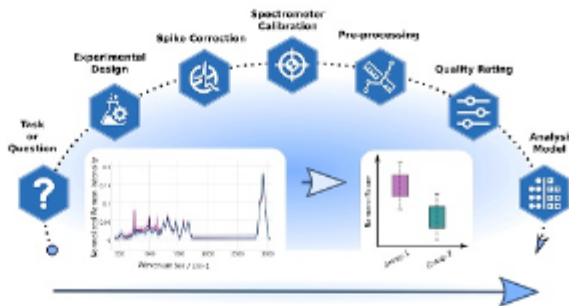
Information technology computer scientists at Karlsruhe Institute of Technology (KIT) have demonstrated how data can be transmitted to LEDs — contained in regular office devices such as a printer — using a directed laser. The demonstration shows the ability for data hackers to secretly communicate with "air-gapped" computer systems over distances of several meters.



[Read Article](#)

Protocol Aims to Standardize Raman Spectral Analysis

To maximize the value of AI analysis for spectral data, a research team in Germany has developed a guide for Raman spectral analysis. The guide covers each step in the analytical process, from experimental design to statistical analysis. The standards will make it easier for scientists to use Raman spectroscopy for real-world applications in biology, diagnostics, food safety, pharmaceuticals, and other fields.



[Read Article](#)

Optical Oscilloscope Could Increase Data Rates by Factor of 10,000

Researchers at the University of Central Florida (UCF) have developed an optical oscilloscope. The instrument, which the developing researchers claim is the first of its kind, converts light oscillations into electrical signals to measure the electric field of light.



[Read Article](#)

Featured Products



Modular 3D Sensor with GeniCam 3D

AT - Automation Technology GmbH

AT – Automation Technology revolutionized the 3D sensor industry with its modular 3D compact sensor (MCS) which is based on a modular system of sensor, laser, and link modules and recently launched the new cx4090HS 3D sensor module which supplements the MCS series.

[Visit Website](#)

[Request Info](#)



Acousto-Optic Modulator / Frequency Shifter

CSRayzer Optical Technology

CSRayzer provides many kinds of acousto-optic modulators, frequency shifters, which could be fiber coupled or in free space type. The AOMs could be widely used in fiber lasers, fiber sensing systems, and quantum communication, with applications of pulse picker, optical switch, frequency shifting, amplitude modulation.

[Visit Website](#)

[Request Info](#)



Optical Biomedical Imaging

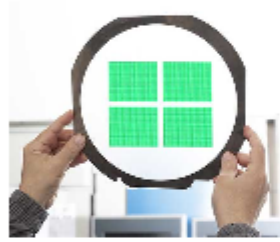
Photonics Media

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...

[Visit Website](#)

[Request Info](#)



Optical Filters for Point of Care

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. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes.

[Visit Website](#)

[Request Info](#)



More News

[The Photonics Spectra Conference](#) [Read Article](#)

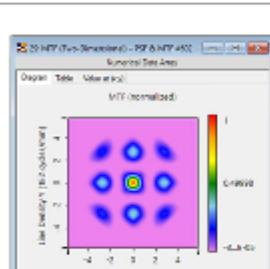
[Navy Research Contracts Vescent to Develop Portable Atomic Clocks](#) [Read Article](#)

[Stretchable Semiconductors Detect Ultralow Light](#) [Read Article](#)

[PsiQuantum, QunaSys Partner on Industrial Chemistry and Materials Science](#) [Read Article](#)

[Light-Based and Lightweight, Aerogel Photocatalyst Enables Efficient Hydrogen Production](#) [Read Article](#)

Upcoming Webinars

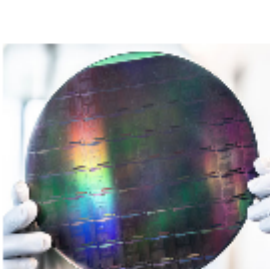


Next-Generation Optics Software: Trends in Technology

Tue, Jan 18, 2022 10:00 AM - 11:00 AM EST

Frank Wyrowski of LightTrans International introduces an alternative approach to optical systems modeling in this webinar: identifying and applying the generalization of ray optics inside the framework of physical optics software. He presents modeling software that results from answering this question, showcasing how physical optics modeling can be made more practical and useful for advancing technologies such as AR/MR devices. Sponsored by LightTrans International GmbH.

[Register Now](#)



Si/SiN-Integrated Photonics for Lidar, Quantum, and Sensing

Wed, Jan 19, 2022 10:00 AM - 11:00 AM EST

In this webinar, Amin Abbasi, business development manager at imec, presents imec's recent collaborative progress on using integrated photonics for emerging applications such as on-chip lidar, quantum computing, and sensing. The added value of using integrated photonics-based solutions is a higher level of integration capacity, compactness, and scalability. Presented by imec.

[Register Now](#)

All Things Photonics

Jerome Faist, co-inventor of the quantum cascade laser (QCL), reflects on nearly 30 years' worth of innovations in semiconductor lasing and the history of the QCL in this week's episode. Faist discusses applications in the terahertz and mid-infrared bands, frequency comb spectroscopy, and ultrashort-pulse lasing. Plus, how did the QCL get its name?

[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, or use our online submission form.



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2021 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

