



Weekly News

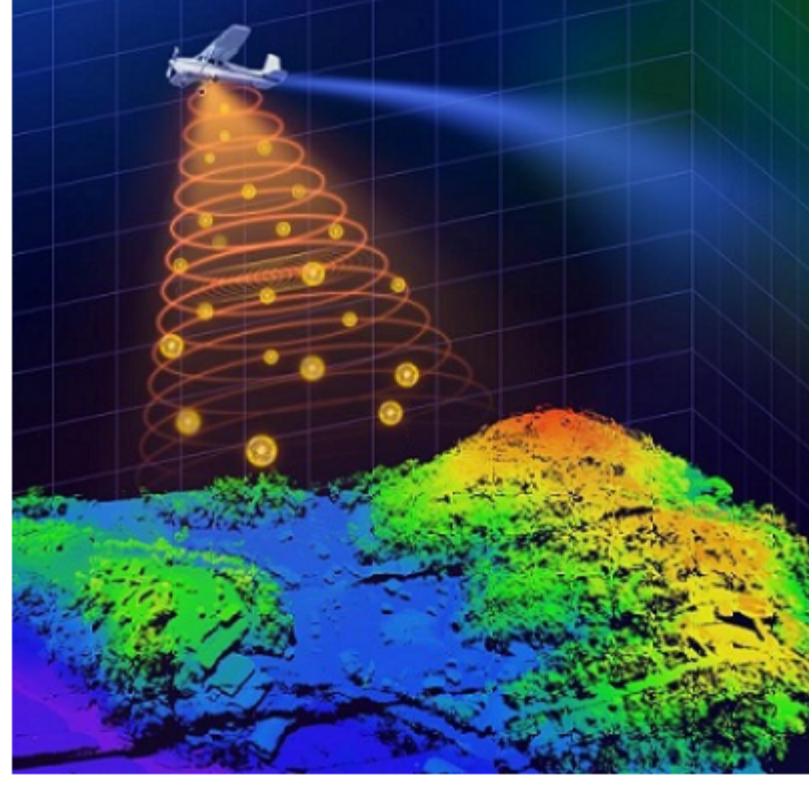


LATICE
MATERIALS
CZ GROWTH AND LENS MANUFACTURING BOZEMAN, MT

SILICON AND GERMANIUM OPTICS

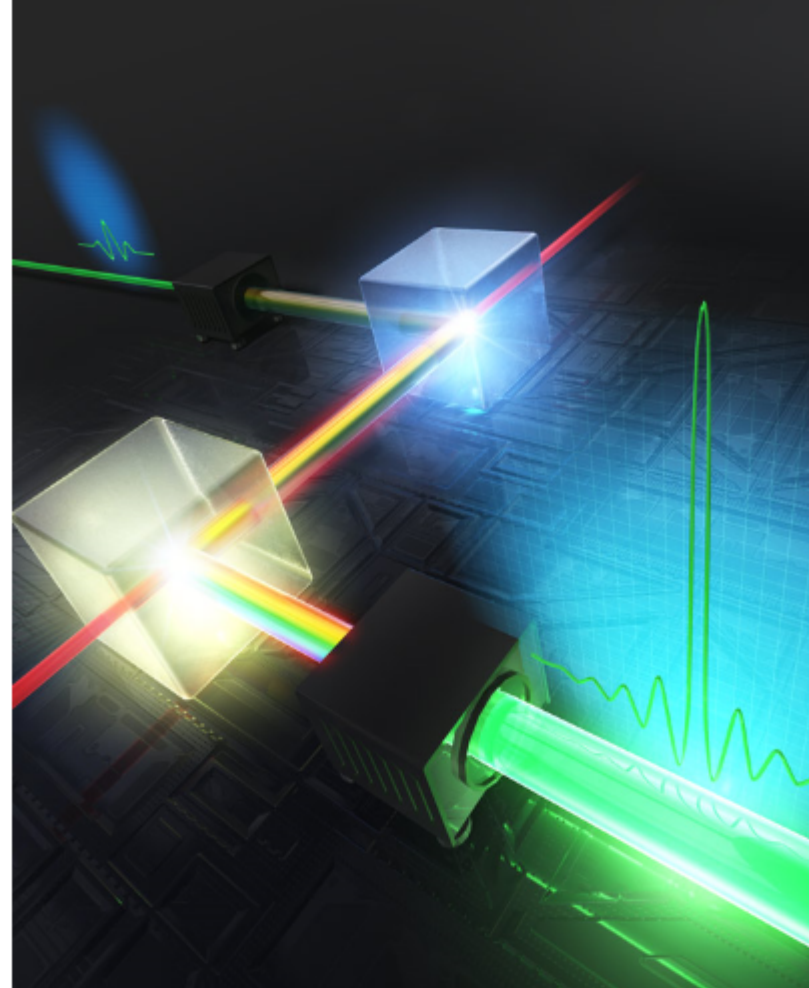
- MEDICAL IMAGING LENS
- IR OPTICS
- LEO SATELLITE OPTICS





Compact Single-Photon Lidar Provides High Resolution for Air and Space

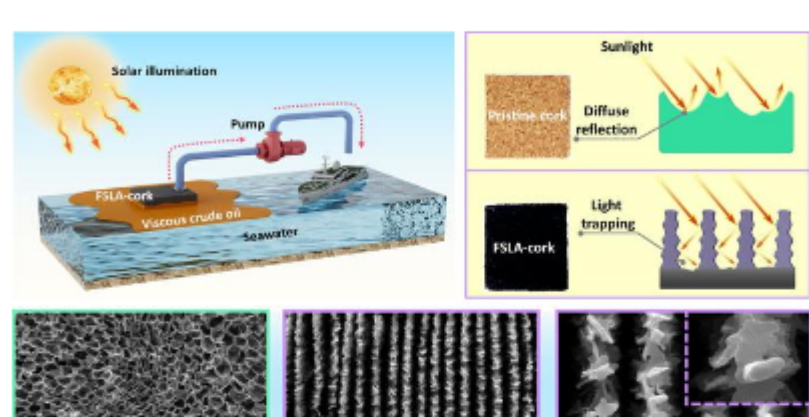
Despite advancements in airborne, single-photon lidar, existing systems have relatively large payloads and high energy consumption. Researchers at the University of Science and Technology of China addressed these challenges and achieved a compact, lightweight, single-photon lidar system with a low-power payload and high-resolution imaging. The new system could make lidar practical for air and space applications like environmental monitoring, 3D terrain mapping, and object identification. [Read Article](#)



Advanced OPA Boosts Energy of Ultrashort Pulses for Attosecond Imaging

Researchers at the RIKEN Center for Advanced Photonics developed a way to generate high-energy, single-cycle, MIR pulses. The method, called advanced dual-chirped optical parametric amplification, increases the energy of single-cycle laser pulses by a factor of 50, and can be used to generate extremely short pulses with a peak power of 6 terawatts.

[Read Article](#)



Laser-Treated Cork Remedies Oil Spills Sustainably with Solar

A research collaboration between Central South University, Huazhong University of Science and Technology, and Ben-Gurion University of the Negev demonstrated that laser-treated cork can offer a sustainable solution for the cleanup of oil-contaminated seawater. The researchers used a femtosecond laser processing technique to transform ordinary cork into a solar-driven tool for treating oil spills. The laser-modified cork, which the researchers call FSLA-cork, exhibited a high rate of light absorption and efficient photothermal conversion. [Read Article](#)



NYFORS
ADVANCED LASER
FUSION SPLICING AND
GLASS PROCESSING

LEARN MORE



Armadillo
Brightness all the way up

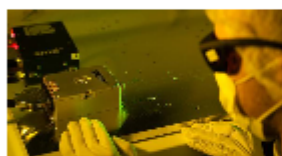
Specialty Fiber Optic Solutions

- Non Circular Core
- Solarization Resistant
- 🔥 Metal Coated

Cables & Bundles



Featured Products & Services



Gem - Solid-State Continuous-Wave Laser

Novanta Photonics,
Precision Medicine & Manufacturing
Air-cooled solid-state continuous-wave laser designed for easy integration into OEM instrumentation, delivering high power in a compact platform. Ideal for a range of applications from super resolution microscopy, Raman, holography through to semi-conduction inspection and particle counting.

[Visit Website](#)

[Request Info](#)



Diffraction Gratings for Telecommunication

CASTECH INC.
CASTECH's high DE reflection grating is ideal for WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

[Visit Website](#)

[Request Info](#)

Looking for something else? Check the Photonics Marketplace.



SYNOPSYS

Optics Design Software enabling your Design Brilliance™

Put Smart Everything to work for you — Upgrade Today!

REQUEST TRIAL

Novanta PHOTONICS

Laser Processing & Illumination Solutions For OEMs

LEARN MORE >>

More News

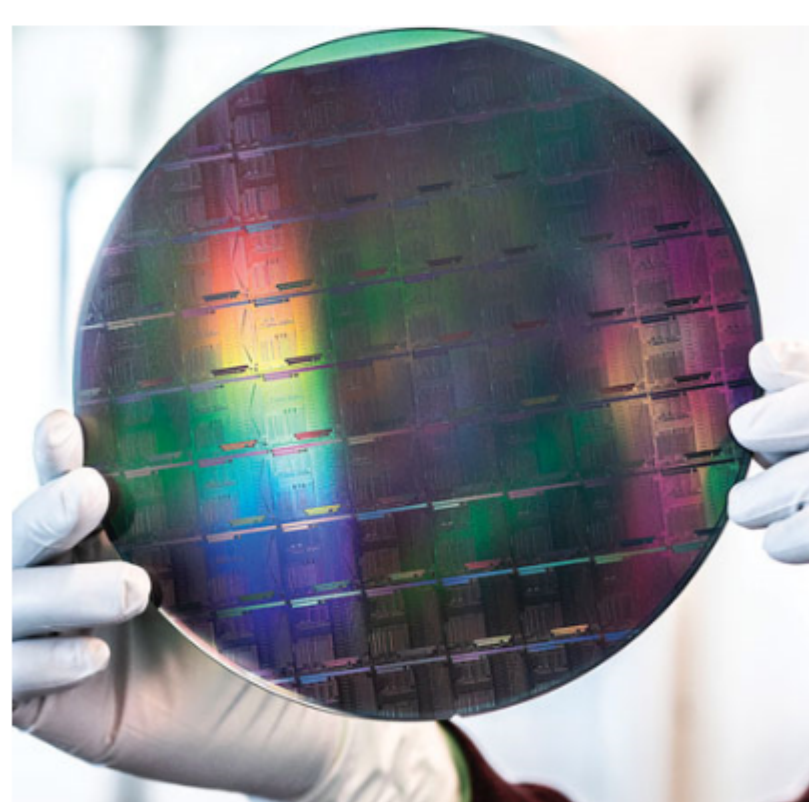
[Adaptive Optics Offers Clues to How the Eye Perceives Color](#)

[Optofluidic Antenna Enhances Single-Molecule Sensitivity in Liquid](#)

[NIL Technology Raises \\$31M to Scale Manufacturing](#)

[Lightium Receives \\$2.9M to Commercialize Data Center Tech](#)

Latest Webinars



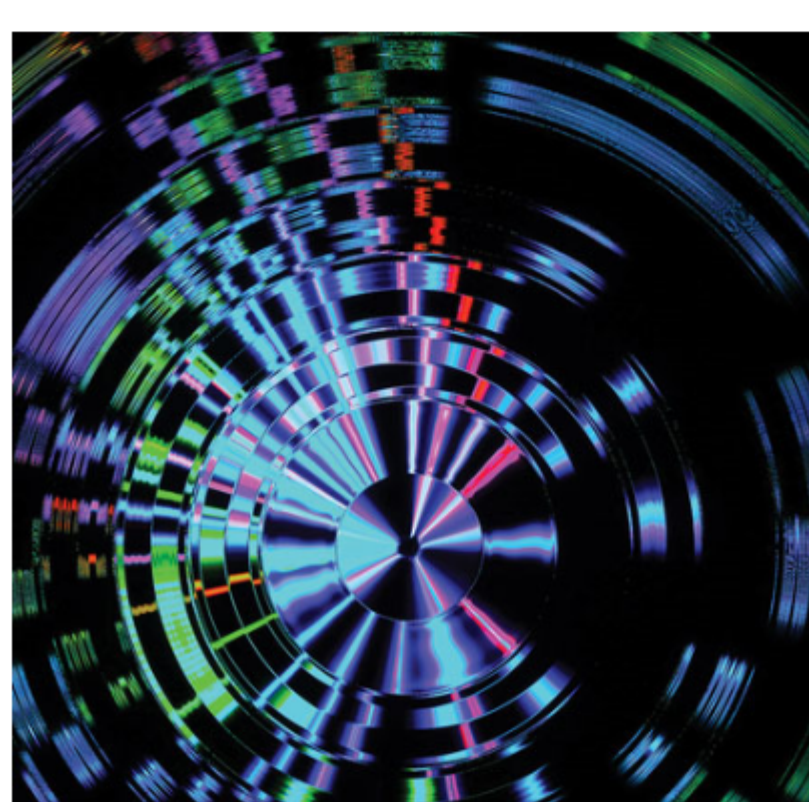
Integrated Photonics for Quantum Computing

Tue, May 28, 2024 10:00 AM - 11:00 AM EDT

Realizing photonic quantum technologies, such as an optical quantum computer or a quantum communication link between distant superconducting qubits, will require the development of novel photonic components. Monolithic silicon or silicon nitride photonic platforms are falling short with respect to the requirements of the quantum domain, and it is envisioned that a hybrid solution is needed. In this talk, Christian Haffner of IMEC shortly discusses what hybrid solutions the silicon photonic platform can offer in terms of detectors, sources, and modulators. His primary focus lies on the electro-optical modulator covering the requirements that the quantum world enforces. He compares the classical and quantum theoretical framework, and sketches out what performance metrics a

quantum electro-optical modulator needs to fulfill.

[Register Now](#)



Let's Talk About Metalenses

Wed, May 29, 2024 10:00 AM - 11:00 AM EDT

From the moment of their initial introduction, metalenses have ignited the creative minds of engineers working in the realms of optics and photonics. LightTrans International's team, the creators of the optics software VirtualLab Fusion, are dedicated to offering modeling and design tools that assist their clients in exploring the capabilities of metalenses in their respective applications. During this webinar, Frank Wyrowski shares strategies for the design and simulation of metalenses in common application contexts. He is eager to showcase cutting-edge advancements and discuss future plans for expanding these concepts in 2024. He aims to motivate the optics community to share their anticipations regarding the functionalities that an optics software should encompass for the utilization of metalenses. Presented by LightTrans International.

[Register 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*, and *Vision Spectra*). 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 - 2024 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.

