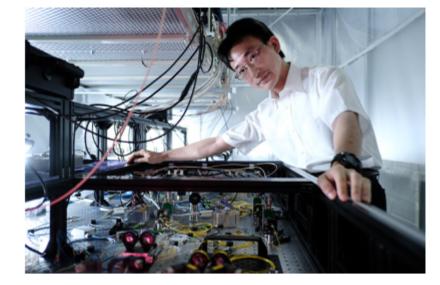


Weekly News







Quantum Computers Begin to Measure Up

Much of the progress so far in quantum computing has been done on so-called gate-based quantum computers. These devices use physical components, most notably superconducting circuits, to host and control the qubits. The approach bears similarity to conventional, device-based classical computers. But the Optical Quantum Computing Research Team at the RIKEN Center for Quantum Computing

has been taking a very different approach. Instead of optimizing gate-based quantum computers, Atsushi Sakaguchi, Junichi Yoshikawa and team leader Akira Furusawa have been developing measurement-based quantum computing. Read Article



Permeable Aerogel Material Researchers at Linköping University have developed an

Researchers Create Terahertz-

aerogel — one of the world's lightest materials — made of cellulose and a conducting polymer enabling the tuning of terahertz waves. Its absorption of terahertz signals can be switched on and off through a redox reaction. Read Article



Acceleration

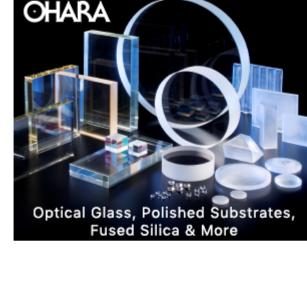
Laser Light Sheet Unveils Snowflake

atmosphere, swirling through the air instead of plummeting directly to the ground. Determining snowflake fall speed is crucial for predicting weather patterns and measuring climate change. In order to study the acceleration of snowflakes in atmospheric turbulence, researchers from the University of Utah deployed a tracking system comprised of a laser light sheet and a single-lens reflex (SLR) camera. They found that regardless of turbulence or snowflake type, acceleration

To reach the ground, snowflakes are swept into the turbulent

follows a universal statistical pattern that can be described as an exponential distribution. Read Article





High Performance IBS

Coatings



Northrop Grumman

Quasi-Rugate thin film designs are optimized for

high-power laser applications for ultra-fast through

CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customer's applications. Quasi-Rugate design structures have the highest demonstrated Laser Damage Thresholds of any Ion Beam Sputtered films. Visit Website Request Info



CASTECH INC.

Telecommunication

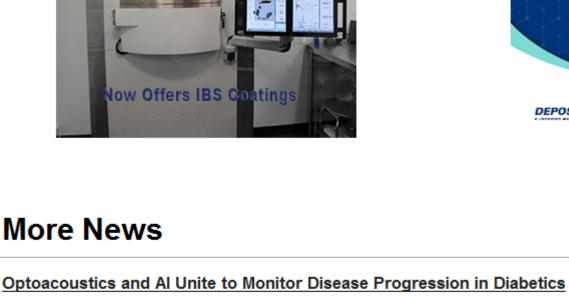
Diffraction Gratings for

Request Info

communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

Northrop Grumman SYNOPTICS

Visit Website





Bristol's popular 871 system measures laser

available. It also measures wavelength to an accuracy as high as ±0.0001 nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured for the most meaningful experimental results. Visit Website Request Info

wavelength at a sustained rate of 1 kHz, the fastest

Shortwave Infra Solution

Bristol Instruments Inc.



light to near-infrared light. Our modules are wellsuited for a high number of applications. Anything you can think of, we can design and build. Visit Website Request Info

Provider

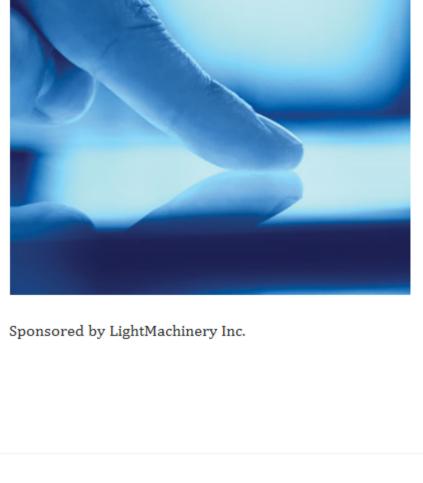
Made Possible DEPOSITION SCIENCES, INC. depsci.com

Difficult Coatings

Researchers Develop High-Precision Dual-Color Optogenetic Brain Probe Researchers Seek to Minimize Thermal Penalty of PIC-EIC Integration

Latest Webinars

Foxconn Synchs with Porotech for Micro-LED Commercialization



editorial@Photonics.com, or use our online submission form.

one is impossible to imagine. To produce state-of-the-art displays lasers must be utilized, especially to create high-end and high-resolution designs. Dr. Oliver Haupt from Coherent focuses on OLED displays for smart phones as well as the adoption of

Laser Application for Display

Tue, Jan 16, 2024 10:00 AM - 11:00 AM EST

Manufacturing

OLED displays in the IT sector. He also addresses the incremental market opportunity for MicroLED displays from the very small range in AR to the very large 4K TV market. Finally, he explains how over the last few years more and more UV short wavelengths lasers have been required and implemented in production due to the display material combinations, increase of active display areas, and pixel sizes down to the micron level. Register Now

Displays are windows into the connected world as nearly every consumer device today has a display and a smartphone without

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines

Call for Articles

(Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100-word abstract to



Questions: info@photonics.com Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use