

This Week In PHOTONICS

PHOTONICS MEDIA



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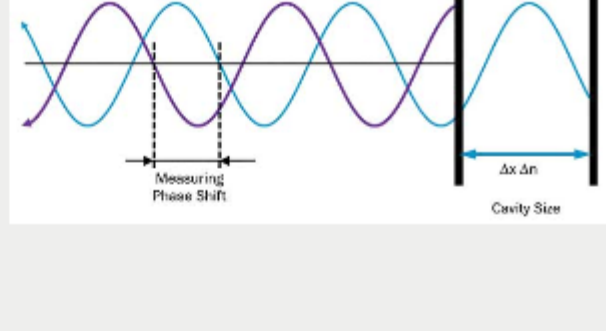
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Top Stories

Europe Drives Fiber Sensor Development for Industrial Apps

Optical fibers have been mostly employed in the telecommunications field to transmit information from one place to another using light. The first inventions involving optical fibers took place in the 1960s at the University of Southampton in England. Since then, the technology has evolved considerably.



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QCL-based IR Microscopy Performs Rapid Cancer Diagnosis

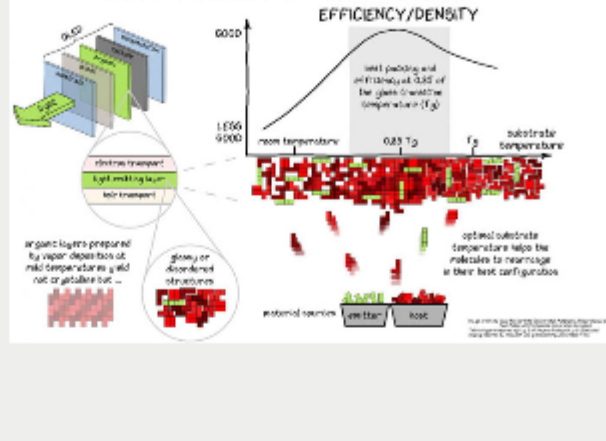
A quantum cascade laser-based IR microscope was used for the rapid, label-free classification of colorectal cancer tissues. IR imaging has been shown to be a reliable method for tissue classification. However, the Fourier transform infrared (FTIR) microscopy technique that has been used to date takes a full day to analyze samples; and the time required for analysis has hampered the use of IR imaging in clinical settings.



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Ultrastable Glass Layers Improve OLED Performance

Researchers demonstrated that it is possible to use ultrastable film formation to improve the performance of OLEDs. Emission layers of OLEDs were grown as ultrastable glasses, a growth condition that allowed for the most thermodynamically stable molecular conformation that can be achieved in amorphous solids.



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Featured Products

Patterned Thin-Film Coatings

Deposition Sciences Inc. (DSI)
The drive towards smaller photonic sensors, often integrated on monolithic substrates with other processing electronics, has created a need for coatings directly on semiconductor wafers, or on miniaturized substrates. Specifically, this allows the integration of optical filters, apertures or other features which modify...

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pco.panda 4.2 back illuminated (bi)

PCO-TECH Inc.
German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family: the pco.panda 4.2 back illuminated (bi). PCO's sCMOS family is the most versatile scientific imaging portfolio on the market. It is renowned for its extremely low readout noise of 1.0 e- med, high resolution of up to 5.5 megapixels...

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Micro-Tactical Cable

AFL
AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and...

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Broadband Wire-Grid Polarizers

Moxtek Inc.
Moxtek offers a variety of wire-grid polarizers and polarizing beamsplitters designed for demanding applications. Our polarizers are made from heat tolerant inorganic materials that enable exposure to temperatures that degrade film based polarizers. Our polarizers are designed for narrow and broadband UV-VIS-IR wavelengths.

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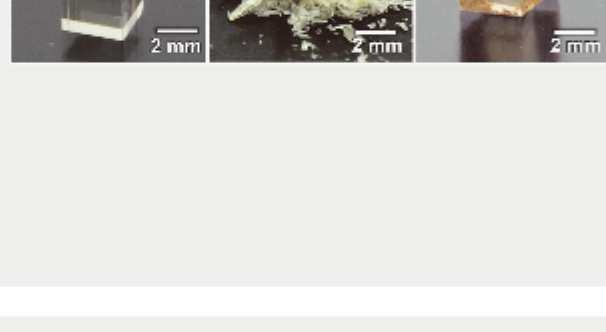
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More News

Light Exposure Impacts Performance of Inorganic Semi Material

While essential for electronics, inorganic semiconductors are brittle — a quality that can limit their use, especially for flexible electronics. Researchers at Nagoya University have found that inorganic semiconductors become brittle when exposed to light but remain flexible when kept in the dark at room temperature.



[Read Article](#)

Lidar Helps Yellowstone Manage a Threatened Ecosystem

Lidar could offer a fast, efficient way to locate and capture lake trout, an invasive non-native fish that is upending the ecosystem in Yellowstone Lake. Aircraft-mounted lidar could allow lake managers to hunt for invasive fish across a wider area at lower cost, making more efficient use of the approximately \$2 million spent on lake trout control each year.



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More Headlines

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Graphene Biointerface Optically Controls Heart Cells [Read Article](#)

Arbe Robotics Chooses GLOBALFOUNDRIES for Autonomous Driving Imaging [Read Article](#)

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Industry Events

SENSOR+TEST 2018

June 26-28, 2018 - Nuremberg Exhibition Center - Nuremberg Germany

Photonics Media Booth: 1-121

SENSOR+TEST is the leading forum for sensors, measuring, and testing technologies worldwide. Attendees will have the opportunity to obtain a comprehensive overview of the state of the art in sensors and measurement at the booths of the 580 exhibitors from all over the globe and at the numerous technical conferences and programs. Exhibitors will present their latest developments, products, and services at free technical forums. The 55 selected lectures will include a session on "Sensor and Measuring Technology in the Industrial Internet" on the first day of the fair.



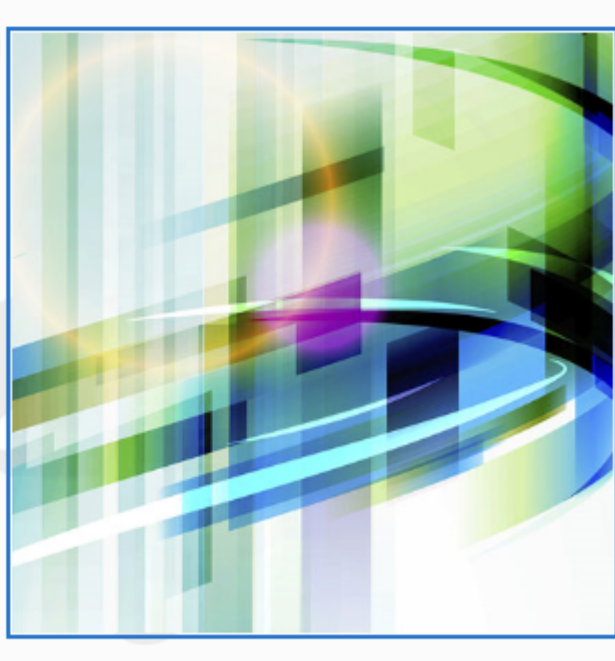
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Webinars

Holography for Display: From AR to HUD to 3D

Tue, Jun 12, 2018 1:00 PM - 2:00 PM EDT

Because holograms have the advantage of being thin and light, they are finding application in the fields of augmented reality and head-up display, where constraints on the size and weight of the optics exist. Holograms can also be used for integral imaging-based 3D display, lensless projection, and lidar beam steering. Professor Pierre-Alexandre Blanche from the University of Arizona will discuss the application of holography in all of these areas and the technological advantages of holography over other techniques. This webinar is sponsored by RPMC Lasers Inc. and UnikLasers Ltd. and Radiant Vision Systems.



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