

This Week in PHOTONICS



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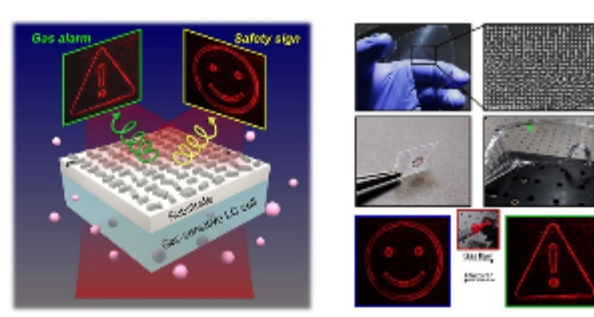
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Top Stories

Flexible, Wearable Sensor Detects Gas Leaks Instantly

A wearable hologram sensor is able to instantly notify its user of the presence of volatile gases. The wearable device overcomes issues of high expense associated with current gas sensing technology, addressing the needs of workers in hazardous environments, such as petrochemical plants.

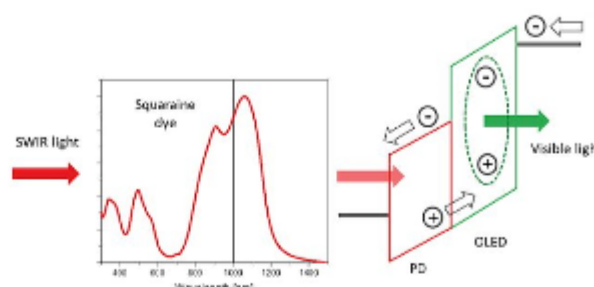
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Organic Optical Upconversion Offers Alternative to InGaAs-Based SWIR Imaging

A device constructed from low-cost materials and that exhibited high stability at temperatures as high as 392 °F (200 °C) is capable of imaging lightwaves in the shortwave infrared (SWIR) region. Scientists in Europe developed the organic device by combining a squaraine dye-coated flexible substrate with an OLED.

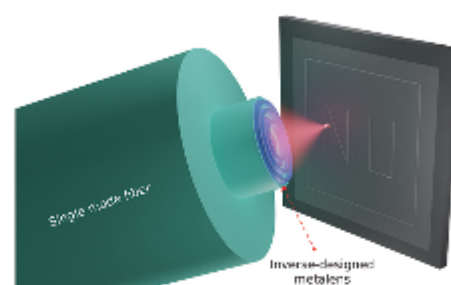
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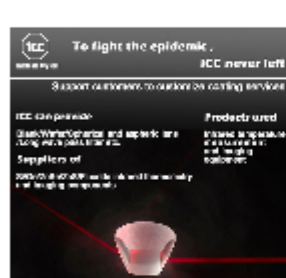
Metalens Will Deliver on Challenging Printing Applications, Direct Laser Lithography

A team at Northwestern University designed a high-numerical aperture metalens and fabricated it on an optical fiber tip, using a set of processes that establishes an alternate path for optical nanoparticle trapping and other imaging applications that use photonic devices.

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Our research and development, production, testing capabilities: At present, the company has 290 employees, 19 of whom have obtained doctoral degrees, 27.8% of whom are R&D and technical personnel. We are equipped with blank, flat, spherical, aspheric, coating, silicon wafer, special-shaped wafer, and other independent production lines. We have the ability to detect macroscopic crystal defects, orientation, physical specifications, and optical indicators.

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Photonics Media

Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math,

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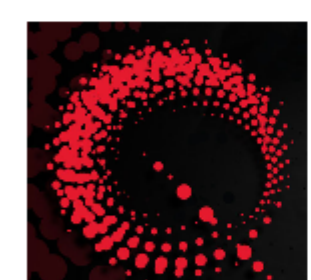
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Upcoming Webinars



Quantitative CMOS Imaging – qCMOS: The Dawn of a New Era

Wed, May 19, 2021 11:00 AM - 12:00 PM EDT

Imaging in general and semiconductor imaging in particular has penetrated every aspect of our lives, especially in the sciences. It has empowered many experiments from relying on subjective recording into objectively documentable, repeatable and quantifiable methods. This webinar with Peter Seitz, Ph.D., will provide an overview of semiconductor image sensors and introduce photon-resolving quantitative imaging, or qCMOS. Presented by Hamamatsu Corporation.

[Register Now](#)

All Things Photonics

Eric Fossum, inventor of the CMOS active pixel image sensor, talks about the past, present, and future of imaging applications and the technology transfer in industry and academia. CEOs Berthold Schmidt (TRUMPF Photonic Components) and Adam Piotrowski (VIGO Systems), the two newest board members of the European Photonics Industry Consortium (EPIC), speak about their new platform and spurring photonics innovation.

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