Thursday, April 23, 2020

This Week in PHOTONICS

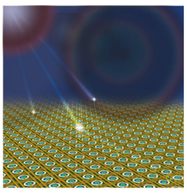
PHOTONICS MEDIA

.: Top Stories

Photon-Counting Camera Captures 3D Images with Record Speed and Resolution

A megapixel camera, based on time-gated, single-photon avalanche diode (SPAD) image sensors, has been developed at École polytechnique fédérale de Lausanne (EPFL). The camera can detect single photons and convert them into electrical signals at a rate of about 150 million times per second.

Read Article



An Integrated Optical System for Containing COVID-19 in Airports

Will automated infection tracking become standard procedure in airports around the world? Real-time thermal monitoring combined with biometric data that could be immediately extracted and analyzed would help airport personnel quickly identify individuals with potential illness in even the most crowded terminals. Possible points of contact with the individual could also be tracked and identified.

Read Article

Deep-UV LEDs Grown on SiC Substrates Could Help Eliminate Coronavirus from Surfaces

Researchers at the University of California, Santa Barbara are developing ultraviolet (UV) LEDs for decontaminating surfaces and potentially air and water that have come in contact with the SARS-CoV-2 virus. The researchers fabricated high-quality deep-UVC LEDs by depositing a film of the semiconductor alloy aluminum gallium nitride (AlGaN) on a substrate of silicon carbide (SiC).

Read Article

.: Featured Products

IR Lenses and Windows for Thermal Cameras

Hangzhou Shalom EO

Thermal camera temperature screenings became an important factor in containing the COVID-19 virus to find elevated body temperature at public places — IR lenses and windows are indispensable parts of thermal cameras. Hangzhou Shalom EO, as an expert IR optics supplier, would like to work with you on resolution of thermal camera optics.

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Wavelength Stabilized Diode Laser

PhotonTec Berlin GmbH

PhotonTec Berlin extends the wavelength stabilized product family with a new diode emitting up to 200 W through a 200 m core, NA 0.22 fiber at 976 nm. Utilizing volume grating, the emitting wavelength is stabilized at 976 nm and insensitive to operating temperature and current.

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.: More News

COVID-19 Test Detects Viral DNA in Minutes Read Article

Basil Garabet, President and CEO of NKT Photonics, Joins the EPIC Board of Directors Read Article

Nanosize Tin 'Bubbles' Could Provide Low-Cost Way to Generate EUV Light Read Article

Electronic Cooling Technology Enables Miniaturization of Quantum Computers Read Article

Headwall Adds Two to Its Leadership Team Read Article

.: Upcoming Webinars

Innovation Along the Value Chain: Creating Optics for Metrology Applications

Wed, Apr 29, 2020 10:00 AM - 11:00 AM EDT

In this webinar, experts from SwissOptic will present innovative approaches to the steps in the creation of optical systems for metrology applications, using practical examples and highlighting technologies that can increase both yield and quality of the final optical product. This webinar is sponsored by SwissOptic AG, Corning Advanced Optics, and APPLIED IMAGE, Inc.

Register Now

Startup Life at Luminate: Advantages of an Optics-Specific Accelerator from the Cohort's Point of View

Thu, Apr 30, 2020 1:00 PM - 2:00 PM EDT

What are the advantages of participating in an accelerator dedicated to optics, photonics, and imaging (OPI) technology? This webinar will provide an inside look at Luminate through the perspectives of four startups in the accelerator's current cohort — from their January 2020 start in Rochester, N.Y., through the move to virtual workshops in response to COVID-19. If you're an OPI startup — from early stage to Series A funding — or a scientist or engineer with technology that's moving from lab to market, learn how Luminate can provide the funding and resources to launch a successful OPI business and speed commercialization.

Register Now

.: All Things Photonics

In this week's episode of *All Things Photonics*, Arthur McClelland discusses his research into Raman spectroscopy and how it's helping to shape our understanding of history. Dr. McClelland is a principal scientist at the Center for Nanoscale Systems at Harvard University where he is using his laboratory to research new applications for microscopy and spectroscopy.

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