

This Week in PHOTONICS



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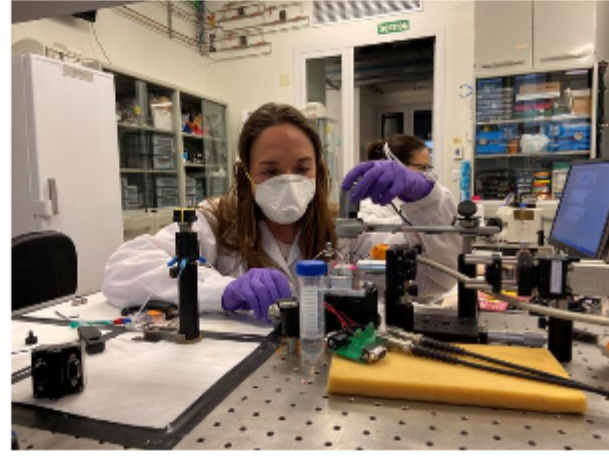
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.: Top Stories

Saliva Test Instantly Detects Coronavirus with Lasers

Responding to the European Commission's call to tackle the coronavirus pandemic, photonics scientists are developing a new, rapid, noninvasive "optical biosensor" demonstrator that will detect COVID-19 in humans as soon as it is present in the body. The research team said the technology still needs further adaptation and testing but could be available in a year at the latest.

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Coating That Could Destroy COVID-19 Virus, for Use in Hospital Masks, in Development

The masks that health care workers wear to protect them from the virus that causes COVID-19 block the virus before it reaches their faces, but do not destroy it. To further protect doctors, nurses, and others on the front lines of the pandemic, researchers at the University of Central Florida are working to create a protective coating that would include a new nanomaterial to catch the virus and kill it within seconds.

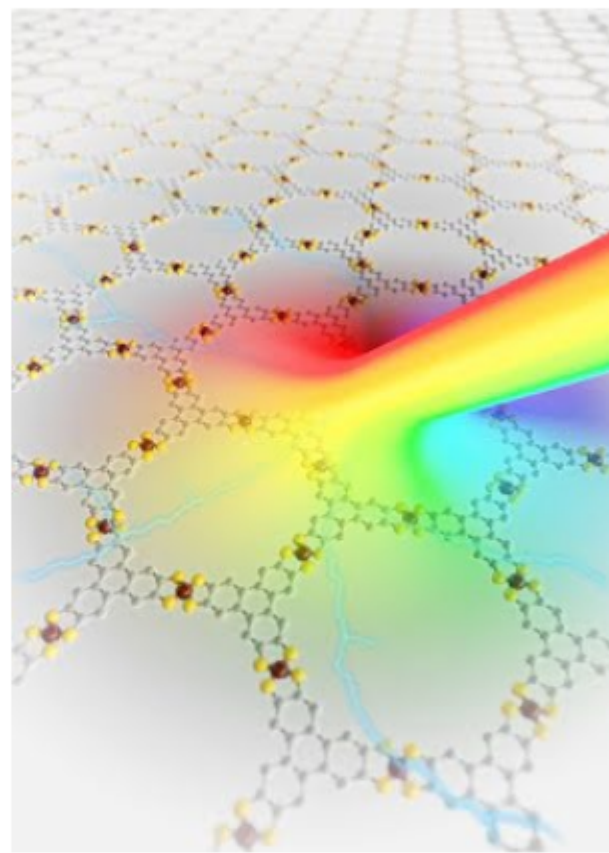
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Researchers Create Inexpensive Broad Spectrum Photodetector

Researchers from Helmholtz-Zentrum Dresden-Rossendorf have developed a low-cost broadband photodetector that uses a metal-organic framework (MOF). As it does not contain any cost-intensive raw materials, it can be produced inexpensively in bulk.

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.: Featured Products

Measure Lasers to 120 kW

Ophir, Photonics

The Ophir® 120K-W Laser Power Sensor measures very high-power lasers from 10 kW-120 kW. It features a compact design with 200 mm aperture, and is designed to measure near IR, Nd:YAG, and fiber lasers in industrial materials processing and military directed-energy applications.

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BORA 1.3M Time of Flight Sensor

Teledyne e2v (UK) Ltd.

The 3D Time of Flight (ToF) BORA sensor is a 1.3 million pixel CMOS image sensor, designed with Teledyne e2v's proprietary CMOS imaging technology. It is ideal for systems operating at short or mid distances and ranges. It features an optimized multi-integration mode together with an electronic global shutter.

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Edmund Optics Teams Up with MiCo BioMed on COVID-19 Diagnostics [Read Article](#)

BIOLASE Partners with ICU Equipment Manufacturer MEKICS to Respond to COVID-19 Pandemic [Read Article](#)

B-Con Shifts Workforce to Fight COVID-19 [Read Article](#)

Researchers Develop High-Power Nanodevice for Ultrafast Electronics [Read Article](#)

COVID-19 Casts Shadow on IDL 2020 with Events Postponed [Read Article](#)

.: Upcoming Webinars

Positioning Equipment for Automated Fiber Optics Device Manufacturing: Practical Ways to Solve Challenging Problems

Wed, Apr 22, 2020 1:00 PM - 2:00 PM EDT

This webinar, presented by Aerotech Inc., will explain how to optimize the performance of automated positioning systems in the most difficult fiber optics manufacturing processes. Attendees will learn how to achieve a positioning resolution that meets alignment tolerances, as well as how to achieve repeatability in high-volume manufacturing environments.

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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.

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.: All Things Photonics

In this special bonus episode of *All Things Photonics*, OSA optics expert Roberta Ramponi discusses the industry reaction to the coronavirus in Italy. Plus, news about how photonics companies are helping the community during the pandemic.

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