

This Week in PHOTONICS



LightMachinery
Excellence in Lasers and Optics



Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

Top Stories

Titanate Nanowire Mask Can Trap Pathogens and Destroy Them with Light

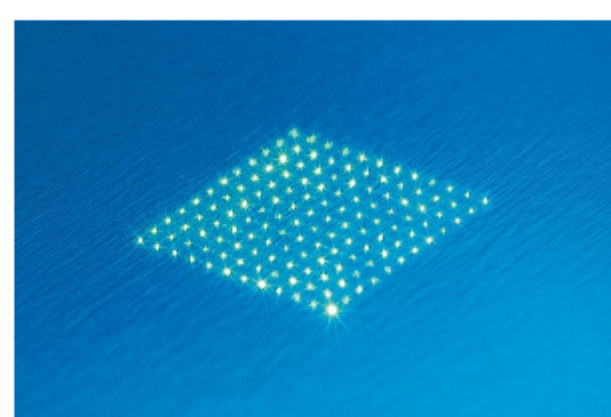
A personal protection equipment (PPE) mask made from a membrane of titanium oxide nanowires could provide a safe and environmentally sound alternative to disposable paper masks that trap pathogens but do not destroy them. Developed by researchers at École Polytechnique Fédérale de Lausanne, the membrane for the new mask prototype has antipathogen properties.



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German Collaboration Introduces Hybrid Manufacturing Process for Thin Metal Cutting

Research collaborators from Fraunhofer Institute of Laser Technology (ILT), KOSTAL Kontakt Systeme GmbH, Amphos GmbH, and Pulsar Photonics GmbH have combined the precision and quality of helical drilling and the efficiency of multibeam processing to enhance the performance of sheet metal parts cutting.



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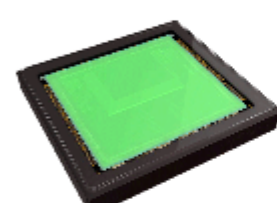
Photodynamic Therapy Can Help Treat Respiratory Infections

Photodynamic therapy can help combat secondary infections in COVID-19 patients, according to researchers at the Optics and Photonics Research Center (CEPOF), which is supported by the São Paulo Research Foundation. The researchers advocate photodynamic therapy as a complementary treatment for decreasing the viral and bacterial load in the patient's respiratory tract.



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Featured Products



ToF Sensor for 3D Vision Systems

Teledyne e2v - UK
Hydra3D™ is a new high resolution Time-of-Flight

(ToF) CMOS image sensor, tailored for 3D detection and distance measurement. It features a 10 µm three-tap cutting-edge pixel and supports the latest industrial applications, including vision guided robotics, logistics, and automated guided vehicles.

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4G Continuously Variable Filters

Delta Optical Thin Film

A/S

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Upcoming Webinars



Vision Science and AR/VR

Tue, Aug 25, 2020 1:00 PM - 2:00 PM EDT

As technologies for augmented, virtual, and mixed realities continue to advance, head-mounted displays (HMDs) face a variety of vision-related challenges, including visual discomfort, reductions in visual performance, and distortions of 3D percepts. In this webinar, Martin S. Banks, Ph.D., will discuss the causes of these issues and how best to minimize them.

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