

This Week In PHOTONICS

PHOTONICS MEDIA



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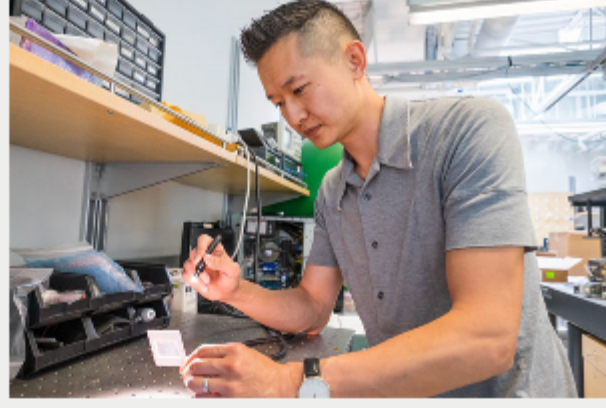
HORNET SPECTROMETER
Compact, Low Cost, <30pm Resolution in the Visible or NIR



Top Stories

Momentum of Light Drives Elastic Waves

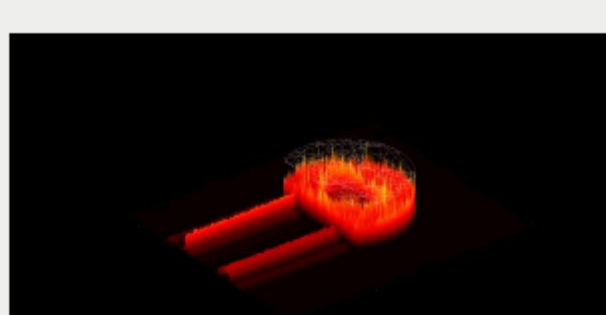
The exact nature of how light interacts with matter is the focus of an international research study. The team measured picometer-scale surface displacements on a solid-state dielectric mirror illuminated by a laser light pulse, under experimental conditions designed to minimize absorption.



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Irregularly Shaped Laser Cavity Stabilizes High-Power Laser Emission

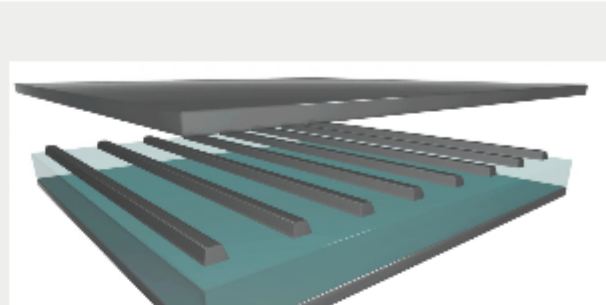
Scientists have developed an irregularly-shaped laser that is able to regulate light emission patterns. The new, D-shaped laser could potentially reduce the degree of fluctuations in high-power laser output, making it practical for a greater number of high-power applications.



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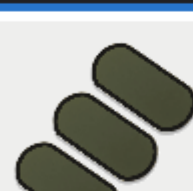
Ultrathin Optical Cavities Could Streamline, Enhance On-Chip Color Production

By embedding silver metasurfaces (artificial materials thinner than light waves) inside optical cavities, researchers have drastically scaled down the thickness of the cavities and broadened the potential color bandwidth for electronics and nanophotonics.



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Featured Products



Dark Mirror Coatings

Deposition Sciences Inc. (DSI)

Dark mirror coatings absorb incident light, rather than reflecting or transmitting it. Thus, they simultaneously exhibit both the low transmittance of a metal blocking filter and the low reflectance of an antireflection coating. Dark mirrors are typically used to define the aperture of an optical system where control of stray light...

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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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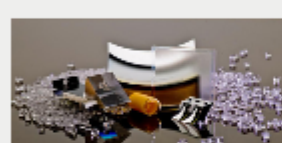


Lasers in Industry

Photonics Media

Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone working on, implementing or considering the application of lasers for and in industrial settings.

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Custom Diamond-Turned Optics

Diverse Optics Inc.

Diverse Optics Inc. specializes in single-point diamond turning of custom polymer optics. For over 30 years, we've manufactured the most challenging polymer optic components and assemblies for leading defense, medical, and commercial applications with advanced technology and an experienced team of professionals.

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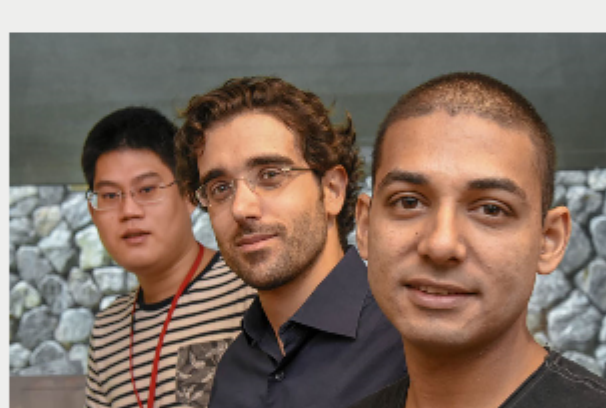
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More News

Nanoplasmonics Enables Label-Free Measurement of Bacteria Formation

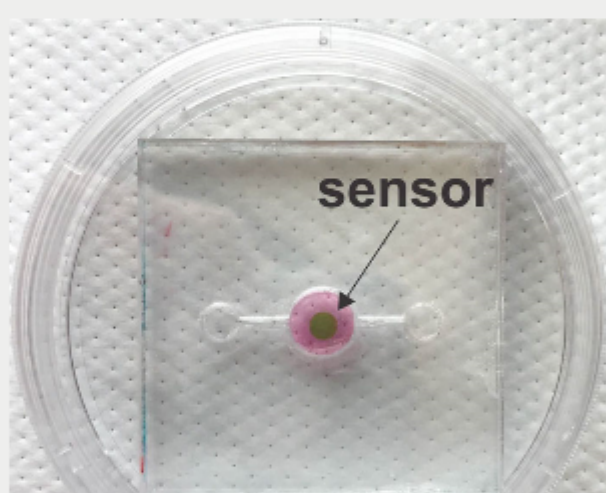
Using nanochip technology and a targeted beam of light, scientists have devised a real-time, label-free way to monitor biofilms, an important component in the search for alternatives to bacteria-resistant antibiotics.



[Read Article](#)

Biosensor Monitors Oxygen in Organ-on-a-Chip Systems

A new biosensor allows researchers to track oxygen levels in real time in 'organ-on-a-chip' systems, making it possible to ensure that such systems more closely mimic the function of real organs. This is essential if organs-on-a-chip hope to achieve their potential in applications such as drug and toxicity testing.



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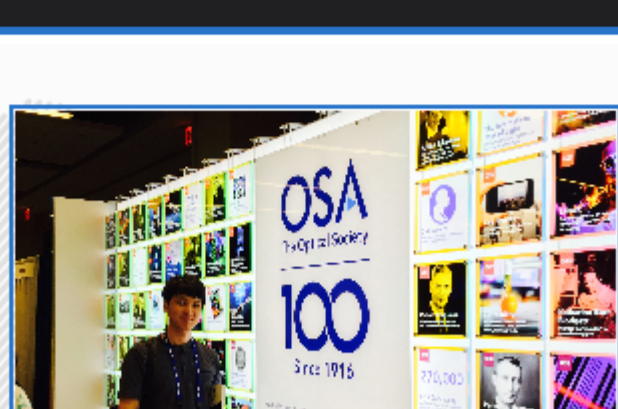
Industry Events

Frontiers in Optics + Laser Science APS/DLS

September 16-20, 2018 - Washington Hilton - Washington United States

Photonics Media Booth: 318

Bridging the gap between academia and applied research, this conference will feature a variety of special events on the exhibition floor, live demonstrations and programming that will support professional development and facilitate networking. Highlights will include programs from OSA Technical Groups discussing nearly every facet of the optics community, electronic posters presented by attendees and students, and presentations. Image courtesy of OSA, The Optical Society.



[More Info](#)

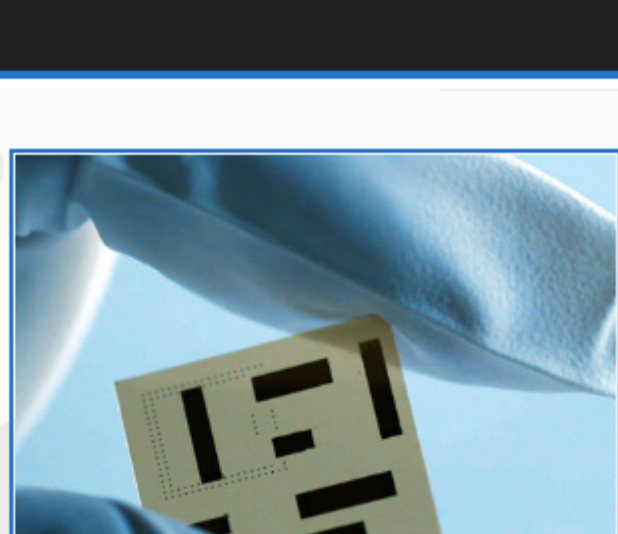
Webinars

How to Accelerate Your Optics, Photonics, and Imaging Startup with Luminate

Thu, Sep 6, 2018 3:00 PM - 4:00 PM EDT

In this webinar you will learn about Luminate, the only international startup accelerator focused solely on next-generation optics, photonics, and imaging (OPI). If you're an entrepreneur who is working on solving problems in these fields, you may be eligible to participate in Luminate. The webinar will cover the criteria for participation and the selection process, as well as the technical, engineering, and support services that Luminate offers to help you successfully launch a business.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at Michael.Wheeler@Photonics.com, or use our [online submission form](#).

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