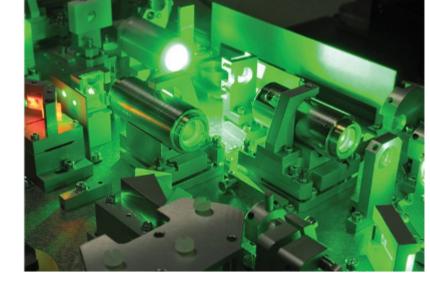


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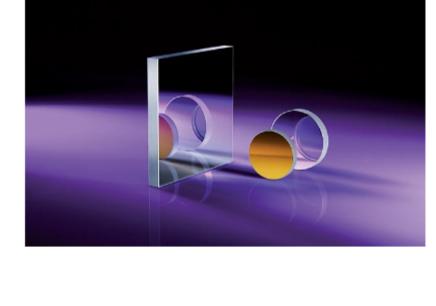
Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Photonics.com/subscribe.





A Quantum Tool Set Could Reshape Laser Beam Profiling

With applications for lasers constantly expanding, the need to precisely monitor the lasing process to ensure optimal and repeatable performance places stringent requirements on beam-profiling mechanisms. Industry widely agrees on many of the standards that govern effective beam profiling as well as the parameters — such as power, shape, and energy — for which data is needed to determine the utility of the laser. Read Article



Each type of metallic coating offers its own unique set of benefits and shortcomings. By carefully selecting the proper

Dynamic Applications

Help Clear the Air

Adapting Metallic Coatings for

material(s) — whether aluminum, silver, nickel, or gold — as well as the necessary enhancements, manufacturers can expand the range of applications for mirrors from highprecision scientific instruments to commercial products and beyond. **Read Article** Advancing Spectroscopy Solutions



Demand is increasing for high-performance photonics systems that enable detections of trace amounts of gases. Certain tools,

such as the technique of laser absorption spectroscopy, are essential to improve data collection efforts, thereby helping businesses to identify leaks and maintain regulatory compliance. Combined with advancements in connected sensor networks, photonics techniques, especially those in the IR, are apt to provide industries with the tools needed to CALL FOR PAPERS

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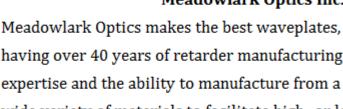
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wide variety of materials to facilitate high- or lowpower applications. Some materials allow retarders

to be used over different wavelengths from the ultraviolet through the visible and into the near infrared. Visit Website Request Info

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NACL IR coatings improve clarity and durability

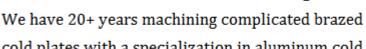
coatings protect surfaces from scratches, moisture,

by reducing reflectance and enhancing

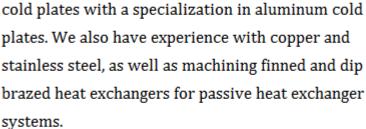
transmission in infrared wavelengths. These

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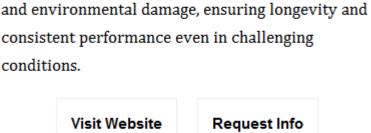
IR Filters for Thermal

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outside the passband, while maintaining excellent

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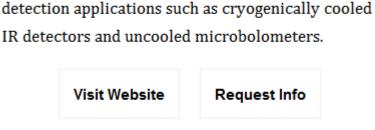
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and compact method for asymmetric visual information processing and communication. Read Article Photoresist Enables High-Throughput, High-Resolution Nanolithography

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SPIE Announces Finalists for 2025 Prism Awards

a Jan. 29 gala evening at SPIE Photonics West. Read Article

Unidirectional Imaging Enables Asymmetric Visual Info Processing

ESCALATING TENSION

ER EXPORTS

The highly sensitive photoresist, called TP-EO (short for two-photon epoxy oligomer), was developed by a team at Zhejiang University. Read Article

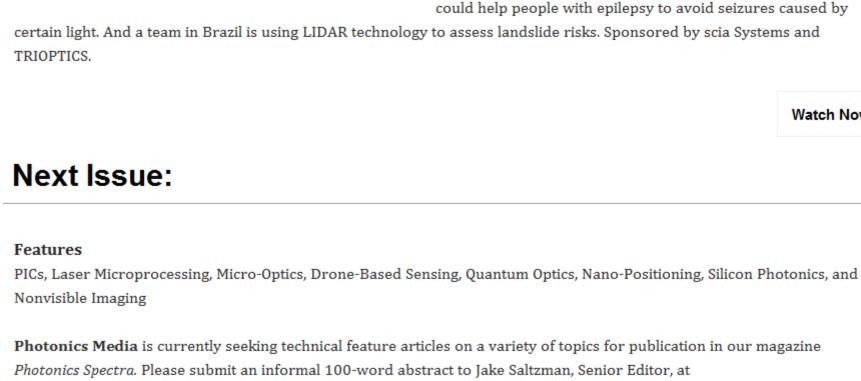
Featured Video

Executive Board

Traditional imaging systems are bidirectional — if a camera can see a person, the person can see a camera. Researchers at UCLA recently developed a new type of imaging technology that could revolutionize how visual information is captured and

processed: unidirectional imaging. By allowing images to be formed in only one direction, this technology provides an efficient

A new cationic-based photoresist can improve the production speed of two-photon lithography without sacrificing resolution.



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Breaking News: China Responds to

U.S. Restrictions with Export Bans,

Tensions between the U.S. and China are escalating. Chinese officials have announced new export bans after White House

companies. VDMA R+A has appointed a new chairperson along with a new executive board. Some of the leading companies in photonics are forming a consortium focusing on 3D printing for industrial applications. Researchers have found a way to break

officials increased export restrictions on several Chinese

VDMA Branch Elects New Chairperson,

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