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VCSEL Advancements Power 3D Sensing

The emergence of 3D sensing in the consumer, industrial, and automotive markets has led to a second significant boom for VCSELs, following their initial use in high-bandwidth data communications. Today, VCSELs can be found in an increasingly broad range of applications, including wearables, medical, security, augmented and virtual reality, drones, logistics, robotics, industrial safety, passenger monitoring, gesture recognition, and lidar.

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Tracing the Evolution of Additive Optics Fabrication

Optical components have traditionally been created through subtractive manufacturing approaches that are mainly based on turning and molding methods. But new technologies enabled by additive approaches are changing the game when it comes to the speed, flexibility, and cost-efficiency of manufacturing optics.

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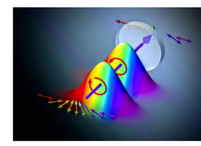
Polarization Enables High-Speed Spectroscopy Measurements



Researchers at Tampere University and their collaborators have shown how the speed of spectroscopic measurements can be made much faster. By correlating polarization to the color of a pulsed laser, the researchers tracked changes in the spectrum of the light by simple and extremely fast polarization measurements. The method opens new possibilities to measure spectral changes on a nanosecond timescale over the entire color spectrum.

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.: Featured Products

Laser Optics

Edmund Optics GmbH

Edmund Optics offers a wide variety of Laser Optics, including Laser Lenses, Laser Mirrors, Laser Filters, along with a variety of other components designed for laser use. Laser Lenses are designed to focus, homogenize, or shape laser beams. Laser Mirrors are ideal for beam steering applications.

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Micro Injection Molding

Accumold

Accumold® is a high-tech manufacturer of precision micro, small, and lead frame injection molded plastic components. Molded parts range in size from 5 cm, with micro features, to parts that are less than 1 mm in size. These complex parts often include tight tolerances measuring only a few microns.

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.: More News From Europe

Promising Candidates Emerge for Next-Gen LED-Based Data Communications

A team of researchers has examined how organic semiconductors, colloidal quantum dots (CQDs), and metal halide perovskites can be used in high-speed LED-based optical communication systems.

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Quantum-Enabled Camera Detects Methane Leaks

University of Bristol spinout QLM Technology has developed a quantum-enabled gas imaging camera. The device, called QLM-1, will help reduce environmentally damaging methane leaks from the oil and gas industry.

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Institute Will Spur 'Synergistic' Quantum, Photonics Advancements

Eindhoven Institute of Technology (TU/e) has opened the Eindhoven Hendrik Casimir Institute (EHCI), a photonics and quantum research center. The mission of EHCI is to contribute to a sustainable information society by bringing together TU/e's core strengths in photonics and quantum technology, from materials to systems.

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Features

Image Sensors, Embedded Cameras, EPIC Insights, and more.

Issue Bonus

Image Sensors, Embedded Cameras, EPIC Insights, and more. **Photonics Media** is currently seeking technical feature articles on a variety of topics for publication in our magazine *EuroPhotonics*. Please submit an informal 100-word abstract to Senior Editor Doug Farmer at Doug.Farmer@photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.