



Wednesday, October 13, 2021

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Sensors

applications.



A sub-picometer resolution spectrometer in a compact package.

The worldwide sensor market is growing rapidly with the establishment and growth of new applications, such as medical devices

Polymer Waveguides Smooth Path to Smaller Optical

that leverage noninvasive optical sensors, and environmental monitoring, which is gaining importance due to a rise in the need for both indoor and outdoor air quality measurements. Read Article

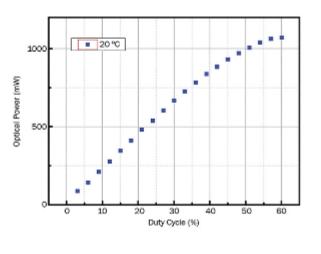


drawback is driving growing interest in methods that would allow QCLs to combine their beams passively and in a compact format to permit

higher power outputs and to help integrate these sources in new

Beam Combination Boosts Power for Quantum Cascade Lasers Quantum cascade laser (QCL) sources offer a compelling option in the MIR range, but they currently deliver limited output power. This

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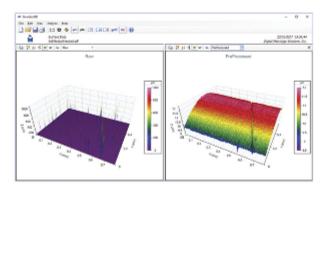
analysis functions. In addition to improving results, the added sensitivity and analysis options can also increase measurement

Today's instruments for measuring optical components deliver

Optical Surface Analysis: Focusing on the Fundamentals

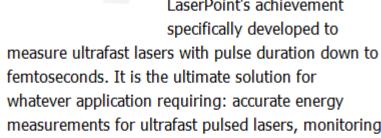
increasingly higher resolution, larger measurement areas, and greater

variability, which can inadvertently raise the number of good components that must be reworked or scrapped. Read Article



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whatever application requiring: accurate energy measurements for ultrafast pulsed lasers, monitoring of fast manufacturing processes in...

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processing system designed

power and sensitive photonic

for the production of high-

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Components Processing

Automated Glass

is a CO2 laser glass-



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characterization from six different angles

with display testing and

The only spectroradiometer

1-Click, 6-Angle Display

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Testing

simultaneously. Display angle performance is determined immediately from one click empowering production and labs to optimize their products for real-world use, streamline processes,

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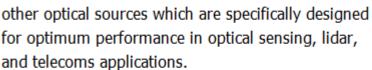
Based in Dublin, Ireland,

DFB Lasers for Industrial Gas Sensing

Eblana Photonics manufactures a wide range of

single frequency DFB laser diodes, Fabry–Pérot (FP)

laser diodes, superluminescent diodes (SLDs), and



for optimum performance in optical sensing, lidar,

Compact Laser Vibrometer

OmniSensing Photonics

Built upon the photonics chip

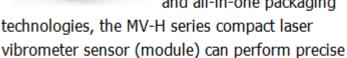


Norland Products Inc.

Norland Optical Splice

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and all-in-one packaging technologies, the MV-H series compact laser

noncontact vibration measurement from DC to 2.5



Norland's optical splice provides a high-performance

Coatings

CupLid Cavity Windows Materion Precision

Materion Balzers Optics has



MHz. It can be widely used in automation production

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Power Meter for Blue/Green Lasers

components, the Ophir Helios Plus industrial laser

power meter measures high-power industrial lasers

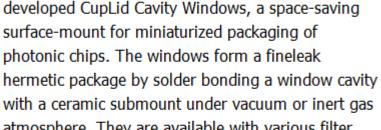
up to 12 kW and wavelengths including 450-550 nm

(blue/green) and 900-1100 nm (infrared).

Ophir, Photonics



For blue and green lasers used in battery welding and connecting electrical



coatings...

with a ceramic submount under vacuum or inert gas atmosphere. They are available with various filter

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including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra

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Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in

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HyperFine Brillouin Spectrometer LightMachinery Inc. The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small

Brillouin shifted return signal. LightMachinery has

combined its leading-edge HyperFine spectrometer

with a very narrow band tunable filter to suppress



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.: In Case You Missed It

Dual-Band IR Detector Can Be Integrated with Camera

the Politecnico di Milano (Polytechnic University of Milan) have

(NIR) to the shortwave infrared (SWIR) band. The dual-band

existing camera chips and smartphones.

system — essentially from scratch.

semiconeuropa.org

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photodetector, which is silicon (Si)-based, can be integrated into

developed an infrared (IR) detector that provides a bias-switchable spectral response in two distinct IR bands. When the bias voltage for the detector is reversed, the device switches from the near-infrared

Scientists at the Forschungszentrum Jülich (Jülich Research Center) and



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No Smoke, Lots of Mirrors: State-of-the-Art Optics Are Rebooting the Advanced Photon Light Source To support the massive upgrade of the Advanced Photon Source (APS) facility at the U.S. Department of Energy's (DOE) Argonne National Laboratory, the APS optics team has begun the monumental task of building a state-of-the-art optical

Miniature 3D-Printed Sensors Adapt to Chemical-Sensing Platforms

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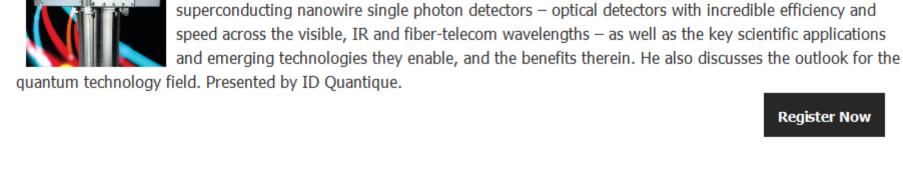
Using direct laser writing (DLW) and optically responsive polymers, researchers at Trinity College Dublin and the Advanced Materials and Bioengineering Research Centre built miniature photonic sensors that change color in response to solvent vapors in the air. The Dublin team collaborated with Radislav Potyrailo, a principal scientist at GE Research in Niskayuna, Read Article BIOPHOTONICS

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Thu, Oct 21, 2021 1:00 PM - 2:00 PM EDT

Adaptive Optics, Multiphoton Microscopy, Vision Guided Robots, and more.

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AMADA WELD TECH INC., covers several key factors to consider in laser microwelding process development and measurement before, during, and after a weld. Boyle discusses how the transition from R&D to production can be ensured and optimized. Register Now

Ensuring Manufacturing Process Success in Laser Microwelding

Expanding Quantum Frontiers with Superconducting Single-Photon Detectors

Félix Bussières, Ph.D., VP of Research and Technology at ID Quantique explores the technology of

This webinar with Mark Boyle, Ph.D., Senior Manager for Product Engineering and Applications at

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