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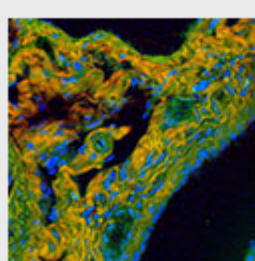
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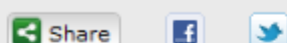
Thursday, July 31, 2014

Enhanced CARS Enables High-Speed Imaging of Tissues



An enhanced spectroscopy technique for analyzing biological cells and tissues delivers stronger signals than those attained through conventional practices. A team from the National Institute of Standards and Technology and the Cleveland Clinic has demonstrated this improved method based on characteristic molecular vibration signatures.

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Novel Laser Could Transmit Quantum Data

A laser made from a superconducting artificial atom could aid information transfer in quantum computing.

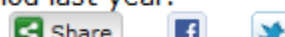
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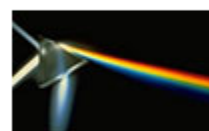
Teledyne Sees Record Earnings, Cites Machine Vision

Teledyne Technologies Inc. has posted record earnings of \$56.1 million for the second quarter of 2014, up 30.8 percent from \$42.9 million in the same period last year.

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Mid-IR Bandpass Filters

Alluxa Inc.
Alluxa announces a new line of high performance durable hard coated, mid-IR bandpass filters and multi-bandpass filters featuring ultra-high transmission and no measurable absorption in the water band.

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Fiber Optic Switches

JGR Optics
JGR Optics' SX4 fiber optic switches are benchtop instruments ideal for manufacturing production testing. A single common input connects with multiple output channels.

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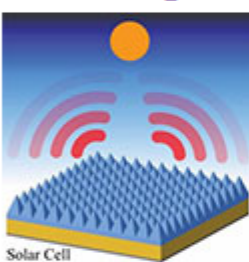
Centrifuges for Continuous Filtration

Sanborn Technologies
Sanborn Technologies manufactures centrifuge systems for filtering and recycling grinding coolants used in optical processes. Complete systems including tanks, pumps and chillers are available.

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Self-Cooling Solar Cells Boost Efficiency



A new technique allows solar cells to passively cool themselves by driving away unwanted thermal radiation.

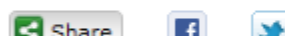
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Image Processing Method Offers Enhanced Underwater Views

New image-enhancing software for cameras allows scientists to more easily observe details under water.

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MIT Spinoff Produces Diode Laser for Cutting, Welding

Bright and strong enough to cut and weld metal with greater efficiency than conventional lasers, a new diode laser will soon hit the market.

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In this edition of the industry's **premier weekly newscast**: Enhanced CARS spectroscopy enables high-speed imaging, a novel laser transmits quantum data, self-cooling solar cells boost efficiency, and we feature another installment of our EDU Spotlight.

Medtronic Acquires Visualase

Medical device giant Medtronic Inc. has acquired Visualase Inc. of Houston for \$105 million.

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Wearable Device Allows Early Detection of Diabetes Complication



Earlier detection of a complication of diabetes is now possible with a new optical technology.

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Laser 'Drawing' Could Improve Nanomaterials

Lasers can "draw" patterns on nanomaterials, a technique that shows potential for improving the functionality of electronic and optoelectronic components.

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WHITE PAPER

Narrow Line Diode Stacks for DPAL

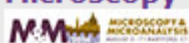
DILAS Diodenlaser GmbH

Diode pumped alkali metal vapor lasers (DPALs) offer the promise of scalability to very high average power levels while maintaining excellent beam quality, making them an attractive candidate for future defense applications. A variety of gain media are used and each requires a different pump wavelength: near 852nm for cesium, 780nm for rubidium, 766nm for potassium, and 670nm for lithium atoms. The biggest challenge in pumping these materials efficiently is the narrow gain media absorption band of approximately 0.01nm.

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Industry Events

Microscopy & Microanalysis 2014 - Aug. 3-7, 2014 · Hartford, Conn.



M&M 2014 is an annual meeting and conference for the microscopy and microanalysis industries.

The event will feature an awards presentation, as well as numerous lectures and symposiums that focus on topics such as Microscopy and Spectroscopy for Power Generation and Energy Storage, Advances in In-situ Microscopy, Extended Crystal Defects, and Carbon Nanomaterials and Related Counterparts.

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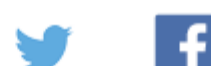
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FEATURED VIDEO



Arroyo Instruments – New Products

Arroyo President, Paul Corr, talks about two new products, the 4400 LaserSource and the 5400 TECSource. He also discusses the 286 Mount with a standard breadboard plate which can be paired with either the 4400 or 5400 models.

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