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LIGHT EXCHANGE



Pointing Light Toward Faster Optical Communications



Coupling light beams with electron oscillations called surface plasmon polaritons produces light beams smaller than the wavelength of the light itself but that carry the same signals, something that could enable more efficient optical devices and higher-resolution imaging systems, say Caltech engineers. Because the device is built on a semiconductor chip with standard nanofabrication techniques, it's easy to integrate with existing technology.

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SPIE Urges Leaders to Avoid Fiscal Cliff, Support Science

SPIE and other science, engineering and education organizations are urging President Obama and Congress to find a balanced, bipartisan plan including tax and entitlement reform to avoid the fiscal cliff — one that ensures strong support for economy-building science and technology.

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Tiny Terahertz Imager Chip Created

Tiny, inexpensive silicon microchips developed at Caltech that generate and radiate terahertz waves could be incorporated into handheld devices, such as smartphones, to suss out explosives in solid objects.

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Materion Consolidating Manufacturing

The Cleveland-area chemicals supplier will close an optical coatings facility in California and cut its Advanced Materials business in New Mexico in an effort to reduce costs and boost efficiencies.

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A Black Hole for Light











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organic solar cells, say electrical engineers at Princeton.

Standards



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Machine Vision Metrology

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Evolve 128 EMCCD Camera **Photometrics**





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Powerful & Flexible Ultrafast



Light Matters In this week's edition of the industry's premier weekly newscast: light points make optical devices more efficient, plasmonic nanobubbles precisely target cancer, a nanosandwich traps light to boost solar cells, sprinkled nanocubes act as super light absorbers, and we share some notable business news. Hosted by Photonics Media's Melinda Rose and Laura

Microscopy Tool Adds 'Color' with Nanoscale Resolution

Nanoscale objects can now be examined in full color, thanks to a new microscopy tip created at Lawrence Berkeley National Laboratory that delivers chemical details with a resolution once thought impossible.









Semrock Ships Millionth Filter

The unit of Idex Corp. recently shipped its millionth hard-coated optical filter, the company announced this week.

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Sprinkled Silver Nanocubes Make Super Light Absorbers Microscopic silver cubes, when sprinkled at random on a polymer-coated gold surface, can provide a simple and tunable

Plasmonic Optical Tweezers Could Trap Tiny Proteins

manipulate particles as small as a few atoms, say engineers at Stanford.

way to create large-area absorbers that "perfectly" absorb light of a given wavelength, Duke engineers revealed.

An innovative aperture design based on plasmonics could focus light so effectively that tiny beams could trap and

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Industry Events

ASCB 52nd Annual Meeting - December 15 - 19, 2012 · San Francisco, CA Visit us at booth 1201

ASCB is the premier international cell biology meeting for scientists and students in academia, industry, government and higher education. Engage with more than 3000 poster presentations and attend over 100 scientific sessions, science discussion tables, symposia and minisymposia sessions, workshops and a Frontier symposia that will synthesize current, exciting progress in the field. The 2012 event features will also include an exhibit of more than 350 companies, education initiative forums, a postdoc/student town hall council meeting and keynote presentations by US Secretary of Energy Steven Chu and Arthur D. Levinson, chair of Genentech Inc. and Apple Inc.

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Automate 2013 - January 21 - 24, 2013 · Chicago, IL Visit us at booth 127



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Continuum - Introducing Horizon OPO In this video, Continuum introduces Horizon, its new mid-band

FEATURED VIDEO

Optical Parametric Oscillator (OPO) providing 192-2750 nm tuning range, up to 40% conversion efficiency, narrow linewidth, and active precision control throughout for hands-free operation. Compatible with Continuum pump lasers, Horizon is a complete & robust package built for consistent output.









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