







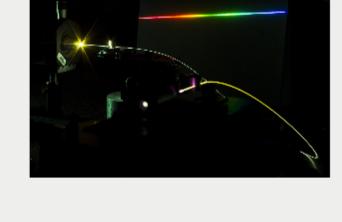


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Customizing Broadband Light Sources Using a Photonic

Chip and AI Researchers have created an optical device that uses AI to control the

properties of light. Using an actively controlled photonic chip, they prepared and manipulated patterns of femtosecond (fs) optical pulses. They used machine learning techniques to tune their approach.



Control Matter





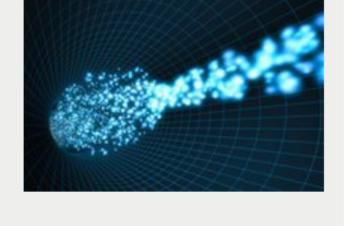


coherent light to engineer complex light structures for probing and controlling matter. Currently, generating such structures is primarily

A new laser architecture called the Universal Light Modulator uses

New Laser Architecture Taps Coherent Light to Probe and

done using external devices such as spatial light modulators, which have average power and peak power limitations.





Block for New Drugs





While searching for ways to use visible light to drive chemical

reactions, a research team found that by using photocatalysis, they could create a safe, inexpensive alternative to anilines, which are used for the development of new medicines.

Photocatalyst Used to Create a Safe, Sustainable Building



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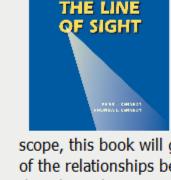
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STABILIZING Photonics Media



authors Peter J. and Rhonda L. Kennedy provide a methodology

In Stabilizing the Line of Sight,

Stabilizing the Line of Sight

and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control. Visit Website Request Info



Innovations aren't always about having that one big new idea.

Unique technology also comes from

pco.edge 4.2 bi: Back Illuminated

evolution, combining existing and

PCO-TECH Inc.

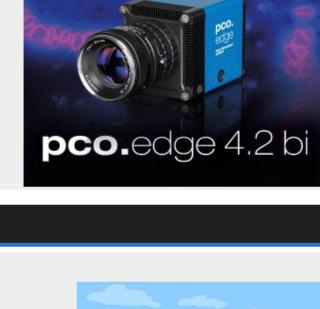
sCMOS

new technology. When PCO's tried and trusted pco.edge series pools forces with modern back illuminated (bi) 16 bit sCMOS sensor technology, we call the result: pco.edge 4.2 bi.

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While light waves sent through optical fibers support fast data transmission, the "last mile," from the fiber optic cable to the internet

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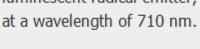
the journey. In the future a new light modulator could cover the "last mile" where data must travel efficiently and at a low cost.

3 A B D Researchers Demonstrate Efficiency of Radical-Based OLEDs Radicals — semiconducting molecules with unpaired electrons — can be used to fabricate highly efficient OLEDs. Using a luminescent radical emitter, researchers demonstrated an OLED with maximum external quantum efficiency of 27 percent,

socket in your home, can be the most challenging and expensive leg of

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Webinars Materials and Methods for Smart Glass, Smart Windows, and Building Shells Wed, Dec 5, 2018 1:00 PM - 2:00 PM EST This webinar will introduce a cost-efficient, high-performing smart glass system for windows, windshields, roof panes, and building envelopes. The system is based on a reflective structure that switches



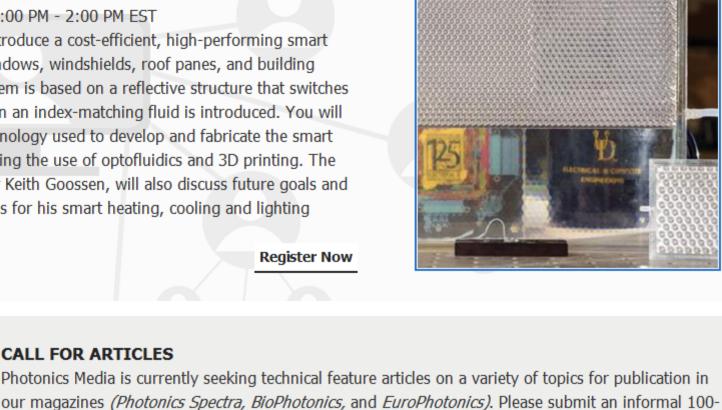
informal gatherings will allow you to tap into a smart, forwardthinking global community that will inspire and empower you.

to transmissive when an index-matching fluid is introduced. You will learn about the technology used to develop and fabricate the smart glass system, including the use of optofluidics and 3D printing. The presenter, professor Keith Goossen, will also discuss future goals and potential applications for his smart heating, cooling and lighting

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