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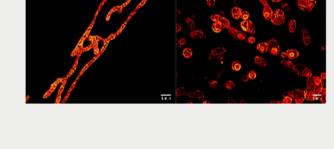
is changing dramatically. Who's ready to work?

Manufacturing

New Molecule Marker Enables 'Unprecedented' Study of

Mitochondria A team at Nagoya University's Institute of Transformative Bio-Molecules has developed a marker molecule that bypasses the problem

of photobleaching in STED microscopy. It's allowing an unprecedented view of live mitochondria, which could help researchers better understand, diagnose, and potentially cure human mitochondrial disease. Read Article (4) (1) (1)









needing a smart home hub (a centralized hardware or software device that enables IoT products to communicate with each other). If these

Smart Light Bulbs Could Be Vulnerable to Hackers

bulbs are IR-enabled, a hacker could send commands via the IR light that is emitted by the bulb to either steal data or spoof other IoT devices connected on the home network.

Some smart bulbs can connect to a home network directly, without





Room Temperature



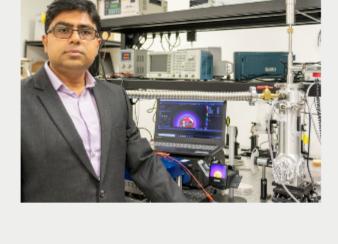


for uncooled, tunable, multispectral infrared (IR) detection. The team showed that room-temperature photodetection using 2D monolayer

Infrared Detector Improves Night-Vision Capabilities at

Researchers at the University of Central Florida have devised a strategy

graphene is possible through the interplay of tunable, enhanced IR absorption induced by localized Dirac plasmonic excitations, graphene mobility engineering, and excitation of asymmetric hot carriers.









STABILIZING Photonics Media

THE LINE QF SIGHT FERE L CHESEON OFFICE L CHESEON

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

Stabilizing the Line of Sight

In 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.

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SWMIC 2020

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INDUSTRIAL

AT A BLANCE

ASER SAFETY

A straightforward guide, offering clear, real world explanations of

Photonics Media

Industrial Laser Safety at a

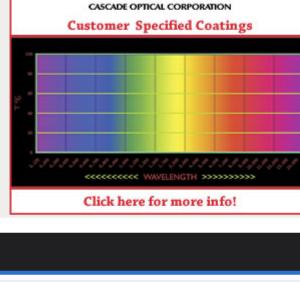
Glance

laser safety elements and the necessary background materials for

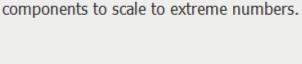
the industrial laser environment. It raises awareness of the dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards of industrial lasers, and the steps that must be taken to ensure a safe environment for all workers. Visit Website Request Info



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A prototype of a large-scale quantum processor made of laser light has been created by a team from Australia, Japan, and the U.S. The



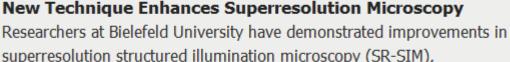
processor has built-in scalability that allows the number of quantum

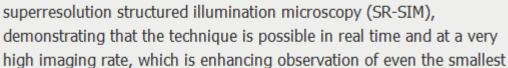


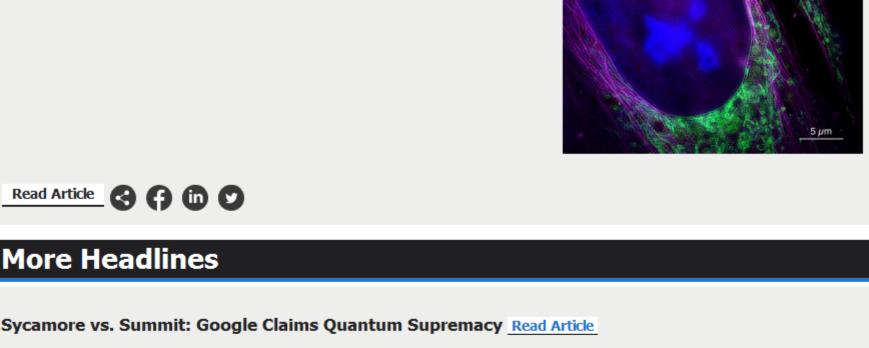
superresolution structured illumination microscopy (SR-SIM), demonstrating that the technique is possible in real time and at a very

cell particles.









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including semiconductors, LEDs, MEMS, printed/organic/flexible, and adjacent markets. Exhibitors and attendees meet to enact change and address industry-shaping trends. This year SEMICON Europa will be co-located with productronica in Munich, creating the strongest single

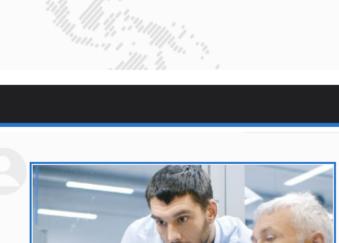
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range of attendees across the electronics chain.

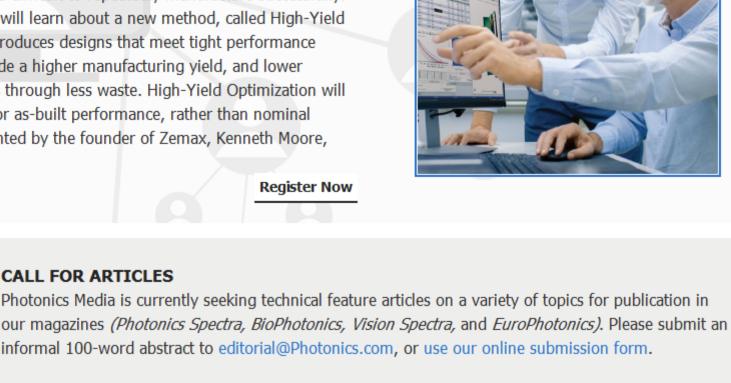
Semicon Europa 2019

November 12-15, 2019 - Munich

High-Yield Optimization: Streamlining the Path to More

Easily Manufacturable Optical Designs Wed, Nov 6, 2019 1:00 PM - 2:00 PM EST The conventional optical design approach results in designs that are very sensitive to manufacturing and alignment errors, which means the optical product is difficult to repeatedly manufacture successfully. In this webinar you will learn about a new method, called High-Yield Optimization, that produces designs that meet tight performance specifications, provide a higher manufacturing yield, and lower

manufacturing costs through less waste. High-Yield Optimization will help you optimize for as-built performance, rather than nominal performance. Presented by the founder of Zemax, Kenneth Moore, Ph.D. Register Now CALL FOR ARTICLES





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