



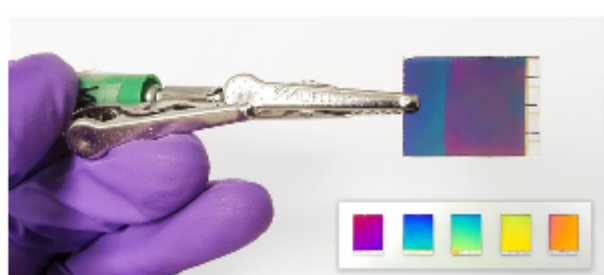
Optics Tech Pulse is a special edition newsletter from Photonics Media and Bristol Instruments Inc. covering key developments in optics technology.

Non-Contact Thickness Measurement
Accurate, Repeatable, Reliable
[LEARN MORE](#)

BRISTOL INSTRUMENTS

Inverted Material Design Brings Reflective Screen into Focus

Researchers from Chalmers University of Technology developed a new type of reflective screen — sometimes described as “electronic paper” — that offers optimal color display and uses ambient light to keep energy consumption to a minimum.



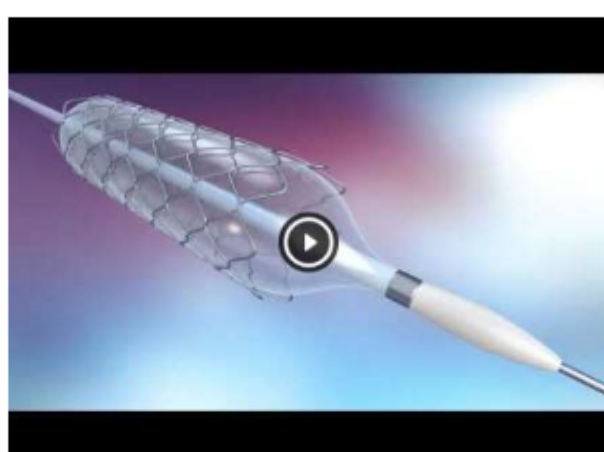
[Read Article](#)



Non-Contact Thickness Measurement - Bristol Instruments Inc.

Bristol's non-contact thickness gauges utilize the unique properties of light to precisely measure the critical parameter of thickness of transparent and semi-transparent materials. Measure up to 31 layers simultaneously without damage or deformation.

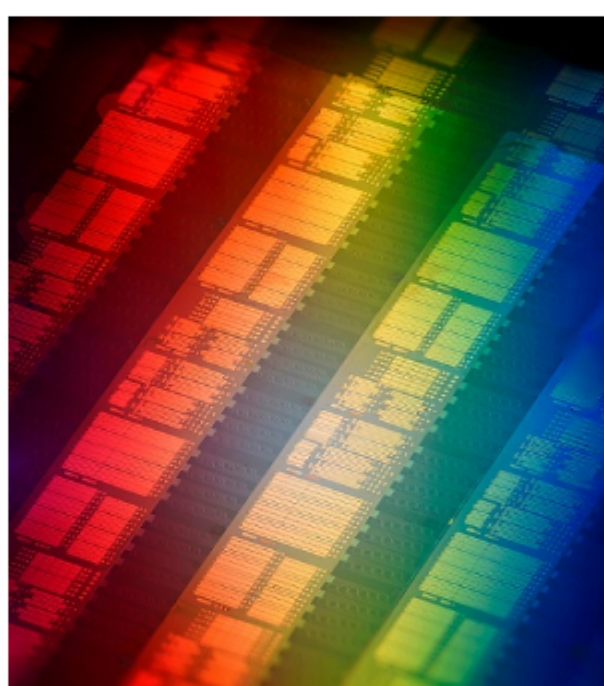
[Watch Video](#)



Integrated Optical Frequency Can Now Be Manufactured at Scale

A collaboration between John Bowers from the University of California, Santa Barbara (UCSB) and Tobias J. Kippenberg from École Polytechnique Fédérale de Lausanne (EPFL) has yielded an integrated on-chip semiconductor laser and resonator capable of producing a laser microcomb.

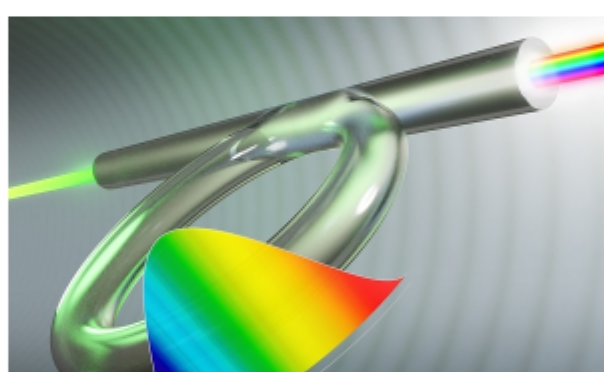
[Read Article](#)



Rochester Researchers Use Spectral Filter in Kerr Resonator to Create Highly Chirped Laser Pulses

Researchers have produced ultrashort, extremely high-energy (chirped) laser pulses using a spectral filter in a Kerr resonator. The pulses created in the work remained stable in low quality-factor resonators, despite large dissipation.

[Read Article](#)



Embedded Vision Is Set for Application on a Massive Scale

Compact, efficient, and highly application specific, embedded vision technology increasingly offers performance and price points that would have been impossible to achieve only a few years ago. The steady advancement in capabilities has been driven by improvements in all component technologies, including sensors, optics, and processors.

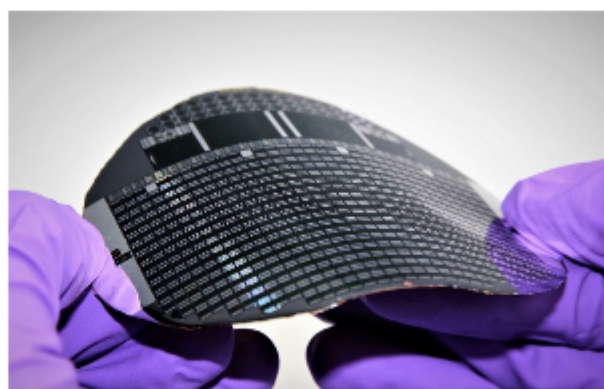
[Read Article](#)



Thin-Film Approach and Monochromatic Laser Light Set Mark for Photovoltaic Cell Efficiency

Researchers at Fraunhofer Institute for Solar Energy Systems ISE have achieved a conversion efficiency of 68.9% for a III-V semiconductor photovoltaic cell based on gallium arsenide (GaAs) exposed to laser light of 858 nm. The mark is reportedly the highest efficiency yet achieved for the conversion of light into electricity.

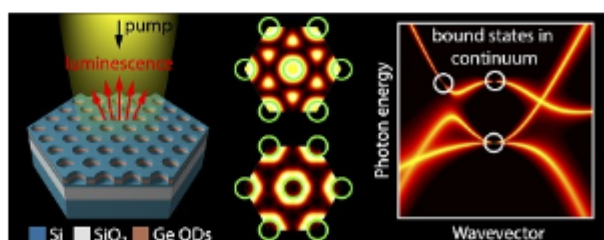
[Read Article](#)



Improving Photoluminescence in Silicon Boosts PIC Performance

Researchers in Russia have increased photoluminescence (PL) in silicon using germanium quantum dots and a specially designed silicon photonic crystal.

[Read Article](#)



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2021 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.



LAURIN PUBLISHING