

This Week In PHOTONICS

PHOTONICS MEDIA



sponsor



A better excimer laser. The IPEX-700.

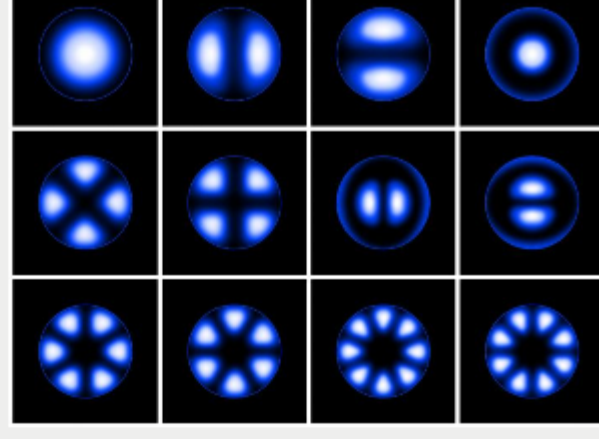
www.lightmachinery.com



Top Stories

Large Mode Area Optical Fibers Maintain Polarization

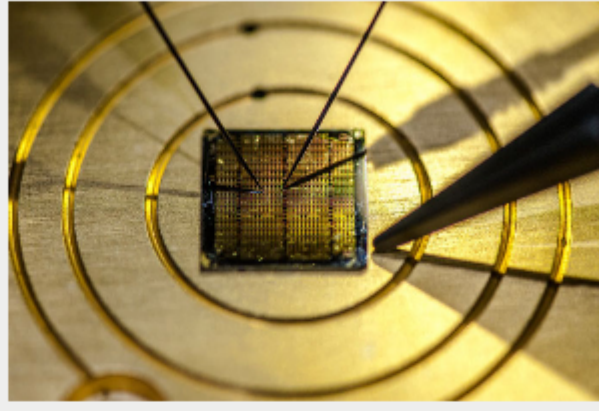
An optical fiber has been developed that preserves the coherent properties of light. This tapered fiber could be useful in the construction of high-power pulsed fiber lasers and amplifiers and polarization-sensitive sensors. The fiber enables control over both the distribution of light intensity and the polarization of light. It has an elliptical inner cladding and an extremely large core diameter that increases adiabatically from 8 μm to 70 μm .



[Read Article](#) [↔](#) [f](#) [in](#) [t](#)

Smartphone App Uses Quantum Technology to Identify Fake Products

An atomic-scale ID based on quantum technology has been demonstrated using a smartphone application. The quantum ID (QID) could potentially be used for verifying the authenticity of many types of products, from medicines to automotive parts.



[Read Article](#) [↔](#) [f](#) [in](#) [t](#)

Harvard, MIT Researchers Use Google Maps to Study Gentrification, Urban Planning

Researchers from Harvard University and the Massachusetts Institute of Technology (MIT) have authored a study that uses computer vision algorithms to examine millions of Google Street View images in an effort to measure whether and how urban areas are changing.



[Read Article](#) [↔](#) [f](#) [in](#) [t](#)

sponsors

Would **\$1,000,000** help your OPTICS, PHOTONICS, IMAGING ENABLED STARTUP?

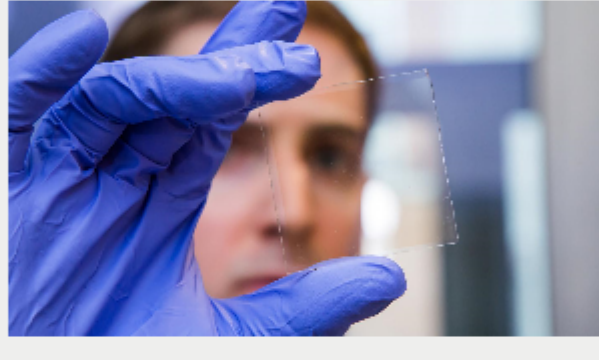
LUMINATE ACCEPTING APPLICATIONS AT www.luminate.org

ROCHESTER, NY
Optics, Photonics & Imaging Startup Accelerator

HAMAMATSU

Self-Powered Smart Window Uses Near-UV Light

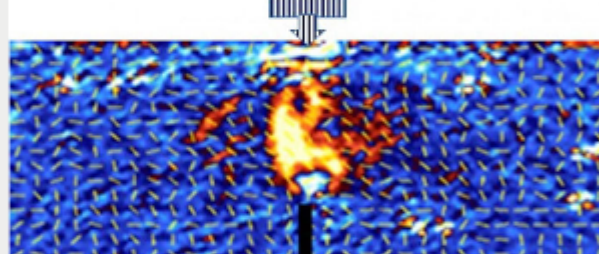
A self-powered smart window features a novel type of solar cell that selectively absorbs near-UV light. The near-UV light is used to generate electricity, which powers chemical reactions that lighten or darken the glass as needed. Organic semiconductors — specifically, contorted hexabenzocoronene (CHBC) derivatives — were used for constructing the solar cells.



[Read Article](#) [↔](#) [f](#) [in](#) [t](#)

Optical Approach to Fracture Testing Measures Concrete Strength

A light-based approach to measuring the strength of opaque heterogeneous concrete mixes applies a light-refracting coating, designed to display stress positions, to the surface of the concrete, then takes a photograph of the concrete surface and uses photo-stress analysis tomography (PSAT) to discover where stress levels in the concrete are most extreme, before cracks or fractures occur.

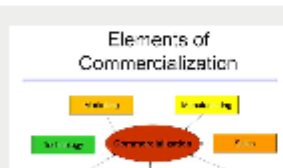


[Read Article](#) [↔](#) [f](#) [in](#) [t](#)

More Headlines

- [An International Meeting of Optical Minds](#) [Read Article](#)
- [Rochester Accelerator Launches](#) [Read Article](#)
- [US Naval Research Laboratory Granted Solar Cell Patent](#) [Read Article](#)
- [Lumileds Goes Independent](#) [Read Article](#)
- [University of Arizona Receives Surveillance Grant for Border Patrol](#) [Read Article](#)

Featured Products



Successful Advanced Technology Commercialization for Everyone!

Photonics Media

A new, 12-lecture course from successful scientist-turned-businessman David Krohn will show you how to identify market opportunities and develop a roadmap for successful commercialization. Commercialization of Innovative Technology through Entrepreneurship – CITE – demonstrates how to move advanced technology into successful commercial products.

[Visit Website](#) [Request Info](#)



Lasers in Industry

Photonics Media
Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone working on, implementing or considering the application of lasers for and in industrial settings for materials processing, quality control and production.

[Visit Website](#) [Request Info](#)

sponsors

SPIE. **2017**

OPTICS + PHOTONICS

6-10 AUGUST 2017
Exhibition: 8-10 August 2017
San Diego, California, USA

REGISTER TODAY

SEMICON TAIWAN

SEPT 13-15, 2017
TAIPEI, TAIWAN

Register Now!

Industry Events

CIOE 2017

September 6-9, 2017 - Shenzhen Convention & Exhibition Center - Shenzhen China
China International Optoelectronic Exposition (CIOE), the world's largest optoelectronics exhibition, is a one-stop sourcing platform for thousands of optoelectronic products, featuring over 3,200 brands from over 65 countries and regions. Exhibits cover the breadth of the optoelectronics industry including optical communications, lasers, photonics, IR applications, sensors, imaging, precision optics and LEDs. Conference topics include intelligent optical networks, biophotonics, optical lenses, camera modules, sapphire emerging applications, IR imaging and laser processing.



[More Info](#)

PHOTONICS buyers' guide®

Looking for Fiber Optics & Accessories products? Search PhotonicsBuyersGuide.com, or browse these product categories:

[Fiber Optic Sensors](#)

[Imaging Fiber Optic Bundles](#)

[Power Meters](#)

[Fiber Optic Cable](#)

[Laser Power Supplies](#)

[Fiber Optic Polishing Equipment](#)



CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at Michael.Wheeler@Photonics.com, or use our [online submission form](#).

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 - 2017 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.