

This Week In PHOTONICS

PHOTONICS MEDIA



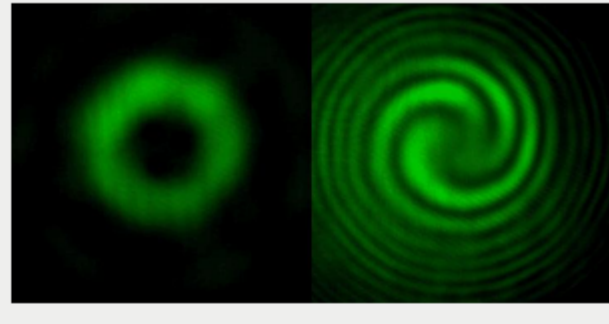
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Top Stories

Complex States of Light Generated via Metasurface

Researchers have designed a method for converting arbitrary spin angular momentum (SAM) states of light into total angular momentum states. This method is characterized by the superposition of independent orbital angular momentum (OAM) and could lead to the generation of novel states of light for research and applications.



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Lightning Awards 'Luminate' Rochester

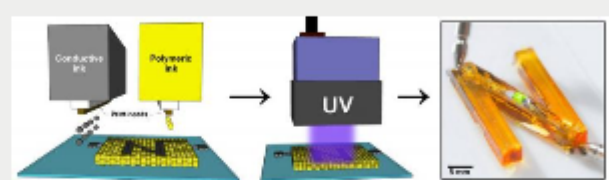
Luminate — the world's largest optics, photonics and imaging (OPI) accelerator focused on advancing next-generation OPI-enabled companies — announced at their Luminate Lightning Awards ceremony the 10 finalists accepted into their six-month accelerator program. New York Lieutenant Governor Kathy Hochul opened up the event affirming that Rochester is the epicenter for the optics and photonics industry.



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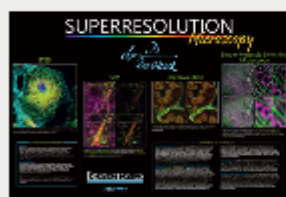
LED-Based UV Light Converts 3D Printing Polymeric Inks Into Solids

A breakthrough in rapid additive manufacturing that involves UV light solidifying the inks used could pave the way for fully functional 3D-printed electronic circuits. Researchers have pioneered the breakthrough and hope to produce functional components such as 3D antennae and fully printed sensors from multiple materials including metals and plastics.



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Featured Products



Superresolution Microscopy Poster

Photonics Media
With interest in the superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine – in collaboration with acknowledged experts – created a poster with readers in mind that is suitable for lab, classroom and office. It features visually stunning, high-resolution images that reveal never-before-seen worlds at the sub-cellular level.

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Corning Hyperspectral Imaging

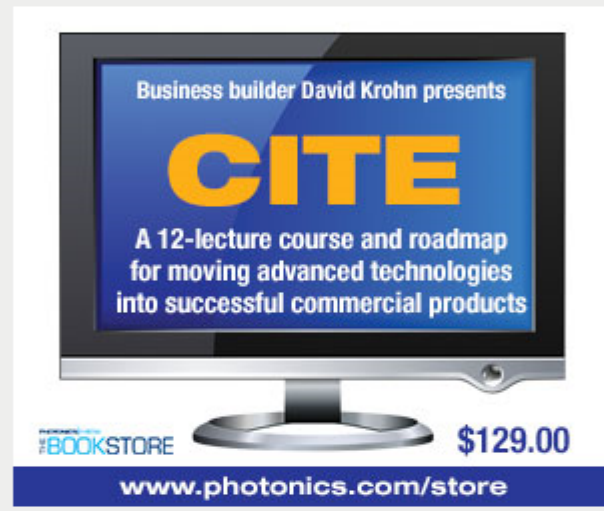
Corning Advanced Optics, Specialty Materials
Corning provides hyperspectral sensors and full hyperspectral systems for all applications

including precision agriculture, industrial, environmental monitoring, mining, and mineralogy. Our microHSI(TM) family of hyperspectral sensors and systems combine the lowest size, weight, and power in the industry.

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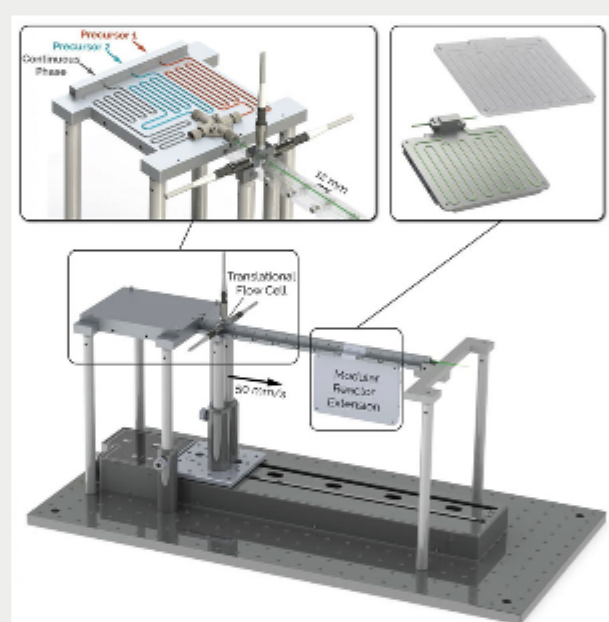
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More News

Microfluidic Platform Performs High-Throughput Screening of Perovskite Quantum Dots

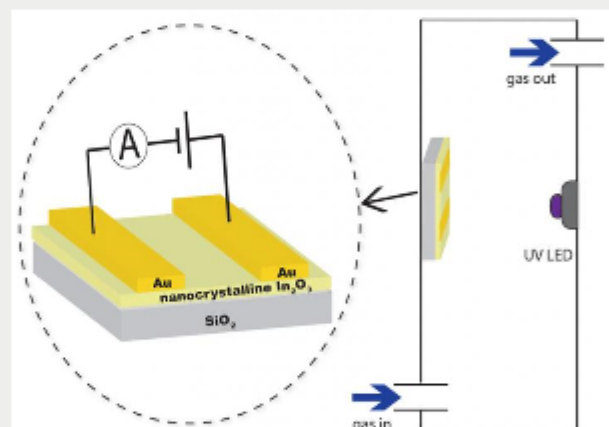
An automated microfluidic technology has been developed containing a spectrographic monitoring module that collects both fluorescent and absorption data. The module moves along the microfluidic channel, collecting data along the way. The technology is capable of collecting 30,000 unique samples per day in both single and multi-phase flow formats.



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Visible LEDs Enable Sensor Response Activation at Room Temperature

Scientists have discovered a mechanism that allows hydrogen sensors to work under visible light, without heating, therefore enabling the sensor to work at room temperature. The discovery, based on nanocrystalline metal oxides, could reduce the energy consumption of the sensor and expand its scope to include the monitoring of air in closed facilities, such as submarines, mines and spacecraft.



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Denso, FotoNation to Develop Automotive Image Recognition Technology [Read Article](#)

Niedersachsen Additiv 3D Printing Center Opens in Hanover [Read Article](#)

Industry Events

SEMICON Japan 2017

December 13-15, 2017 - Tokyo Big Site - Tokyo Japan
SEMICON Japan 2017 will cover the entire electronics manufacturing supply chain, featuring exhibits on manufacturing processes in three zones: front-end process, back-end and overall process, and components and materials. This event will highlight the latest in sensor technology with an exploded drone exhibit, and will showcase IoT applications and enabling technologies. Attendees will have the opportunity to meet startups through pitch presentations and exhibits and will benefit from exposure to new ideas, technologies, business models and potential collaborations.



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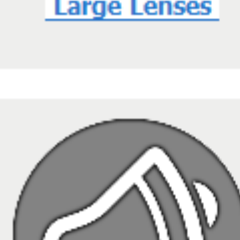
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