

# This Week In PHOTONICS

PHOTONICS MEDIA



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## Meet the Editors

Photonics West – Wednesday, February 5, 3:00 p.m. | Booth 658/659



## Top Stories

### SPIE and Photonics Media Announce 2020 Prism Award Finalists

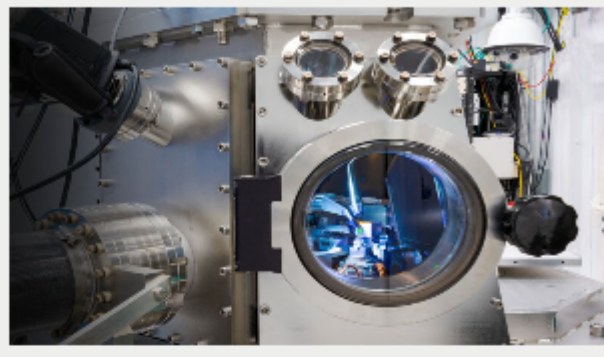
SPIE and Photonics Media named the 27 finalists for the 2020 Prism Awards, in categories ranging from communication, vision technology, and the life sciences to transportation, quality control, and health care. Winners will be announced at a black-tie awards ceremony and banquet on Feb. 5 during SPIE Photonics West in San Francisco.



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### Scientists Develop Photocatalyst That Can Turn CO2 to Fuel

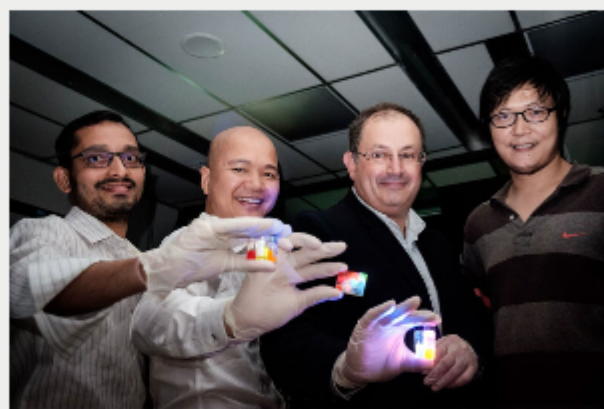
In a recent study from the U.S. Department of Energy's Argonne National Laboratory, scientists used a photocatalyst largely made of copper to transform carbon dioxide to methanol. The researchers used a photocatalyst made of cuprous oxide, a semiconductor that when exposed to light can produce electrons that can react with, or reduce, many compounds.



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### New Approach Could Improve Colloidal Quantum Dot Lasing for Use in Displays

Researchers at Nanyang Technological University have demonstrated tunable, controllable amplified spontaneous emission (ASE) in a colloidal semiconductor device via electric field-induced charging. Their work could open new avenues for achieving electrically pumped colloidal quantum dot (CQD) lasers.



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## Featured Products



### Defense & Aerospace

#### Photonics Media

Drawing mainly from the pages of Photonics Spectra and focusing on the last decade or so of developments, Defense & Aerospace offers an overview of these industries as only Photonics

Media can present it — from laser paint removal and laser bonding in aerospace, to breakthroughs in quantum sensing.

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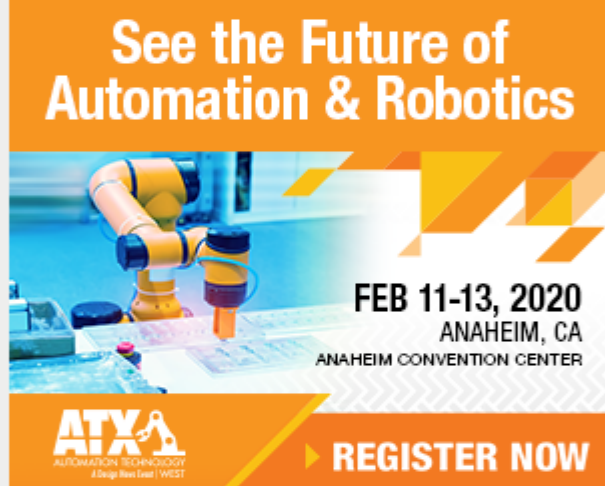
### Canon Surface Reflectance Analyzer

#### Canon U.S.A. Inc., Industrial Products Div.

Canon RA-532H, Surface Reflectance Analyzer (goniophotometer), is a compact, portable device capable of measuring 4 surface appearance conditions in a single pass: Gloss, Haze, Image Clarity (IC), and BRDF (Bidirectional Reflectance Distribution Function). Additionally, Canon has released its own new parameter, "Scattering" parameter, overcoming the shortage of both IC and DOI (Distinctiveness of Image) when evaluating matte and textured surfaces as well as orange peel surface.

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## More News

### Ozcan Labs, UCLA Publish Method on Machine Learning Using Continuum of Wavelengths

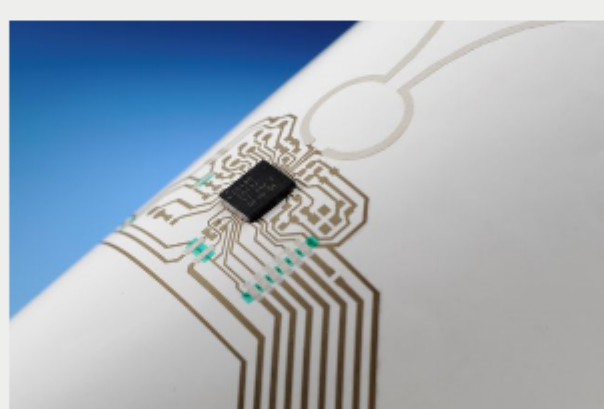
A UCLA research team led by Aydogan Ozcan has been developing a diffractive deep neural network, a machine that combines optical diffraction deep learning with light-matter interaction. The goal for the team was to engineer diffractive surfaces that collectively perform optical computations at the speed of light.



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### VTT Technical Research Leads Consortium of Optics and Electronics Developers to Promote Recycling

VTT Technical Research Centre of Finland is managing a new sustainability project dubbed ECOtronics, a consortium of optics and electronics companies in Finland committed to creating recyclable and compostable electronics and optics that use renewable resources.



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## More Headlines

### New Data on Laser-Plasma Instabilities Could Improve Predictive Models for Fusion Experiments

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### EMBL and Leica Microsystems Sign Open Innovation Collaboration Agreement

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### Frost & Sullivan honors NUBURU with Technology Innovation Award

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### Hourglass-Shaped Silicon Nanowire Photodiodes Provide Greater NIR Sensitivity

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### Cooke Optics Opens LA Service Operation

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## Industry Events

### DesignCon 2020

January 28-30, 2020 - Santa Clara Convention Center - Santa Clara, Calif.

North America's largest chip, board, and systems event, DesignCon, returns to Silicon Valley for its 25th year. This three-day event brings together the brightest minds across the high-speed communications and semiconductor industries who are looking to engineer the technology of tomorrow. With more than 100 technical paper sessions, panels, and tutorials spanning 14 tracks, DesignCon's three-day conference program covers all aspects of hardware design. The latest in high-speed design tools, technologies, and developments will be on display at the DesignCon expo. Offering more than 175 suppliers, DesignCon remains the place for chip, board, and systems design engineers to source, network, and stay ahead of industry change.



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### CALL FOR ARTICLES

Photonics Media is currently seeking technical feature articles in a variety of topics in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or [use our online submission form](#).

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