PHOTONICS













spectra

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.



developers to find numerous new usage models that may completely change our personal connection to fitness, health care and our homes. Advanced optical

technology, along with creative programming, are birthing a whole new cadre of next-generation consumer devices that could create a billion dollar market by 2021.



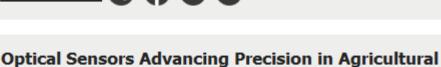
Production





rapidly, cheaply and accurately manage crops.

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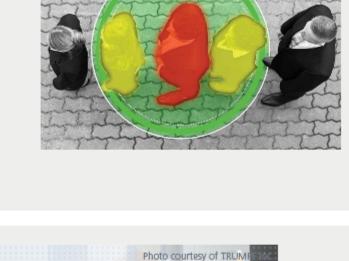
RGB image sensors to NIR and Raman spectroscopy. New sensor and imaging technologies are among the most important and exciting new tools that will be incorporated to see and respond to what has previously been intractable.

Emerging methods for plant phenotyping involve optical sensors — from simple

Photonics will help researchers and farmers apply discoveries on the farm to more

IoT Unlocks New Markets for Compact Optical Sensors on a typical day, you may not even realize the plethora of smart technology permeating our homes, cars, offices, shops, hospitals and cities. The Internet of Things (IoT) is all around us, and this is just the beginning.







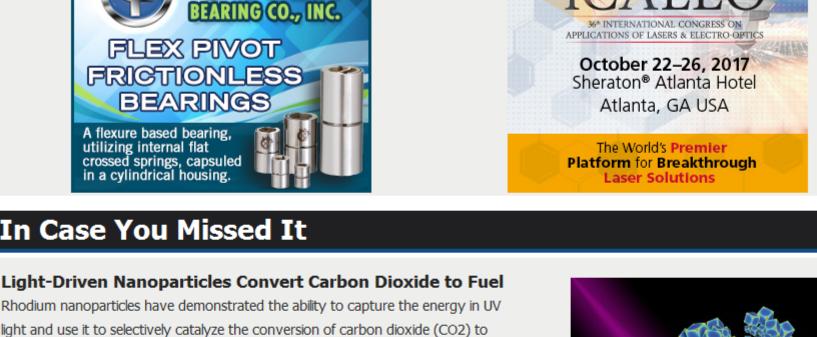








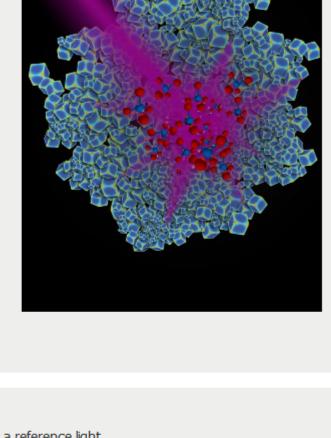
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methane. Such light-driven catalysis could be used to help reduce the level of CO2 in the atmosphere and for industrial applications.

A flexure based bearing, utilizing internal flat crossed springs, capsuled in a cylindrical housing.

In Case You Missed It



A Breakthrough for Reference-Free Holography Frosted glass can extract light intensity and phase information from a single image without a reference light.

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3 7 6 6



newly acquired 50,000 sq-ft manufacturing facility in Orlando.

Luminar Enters Autonomous Vehicle Market With Breakthrough Lidar Luminar Technologies Inc. has launched a new kind of lidar system designed to make autonomous vehicles safer and more scalable. With four

Featured Products

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strategic partners, two acquisitions and \$36 million in seed funding, the company will begin producing a 10,000-unit run this year out of their







cylindrical, limited rotational bearing, with a high relative radial and axial stiffness which is available in low, medium, or high torsional spring rates. It is typically available for maximum deflection angles of

+/-30, but various configurations are supplied upon request.

The C-Flex bearing or pivot is a

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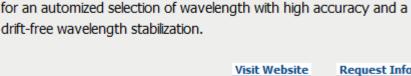
Low-Cosmetic Defect IR Filters

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AbsoluteLambda™ for C-WAVE, the Tunable Laser **HUBNER GmbH & Co. KG** HÜBNER Photonics announces a new feature of ultimate

wavelength control, called AbsoluteLambda™, on its award winning

C-WAVE cw tunable laser. AbsoluteLambda™ offers the opportunity



Spectrogon US Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, and introducing low cosmetic defects - while maintaining excellent coating uniformity --- for thermal imaging applications.

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Stack Design Meets Current

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Alluxa Ultra Series Filters and

Alluxa Ultra Series Filters, including

generation spectroradiometer, the Aries. Based on the proven design and performance of the OL 770, the Aries offers an array of enhanced capabilities, including WiFi and Ethernet connectivity for easy integration into production environments.

Mode

Messtechnik

Coatings

Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest

performance optical thin film solutions available today. For example,

the Ultra Series Flat Top Narrowband filters offer the narrowest

bandwidths and squarest filter profiles in the industry.

Alluxa

It extends the family of miniaturized multichannel detectors. Equipped with two double-operational amplifiers it

The LRM-284 is the latest pyroelectric

detector from InfraTec in TO39 housing.

combines the advantages of the innovative stack design with current

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Features

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