


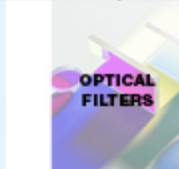




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Optics

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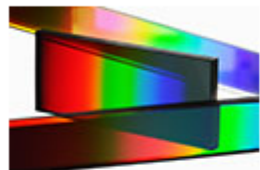


Tuesday, June 23, 2015

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Advances in Optical Filters Provide Rapid, On-the-Go Diagnosis



When it comes to diagnostics, one of the most crucial – and often overlooked – components is the optical filter. But as manufacturing processes improve, optical filters of exceptional quality are being created, which not only deliver accurate results but also open up an entirely new avenue of application in wearable diagnostics.

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'Flat Lens' Masters Chromatic Aberration

Nanoscale silicon optical antennas can be designed to manipulate how light passing through the lens is diffracted, potentially allowing the metasurface to generate a perfectly focused image or a twisting vortex beam.

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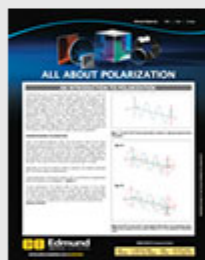
Fog Chamber Aims for Better Optics Testing

A humid chamber in the desert of New Mexico is designed to help improve the abilities of cameras and sensors to penetrate fog.

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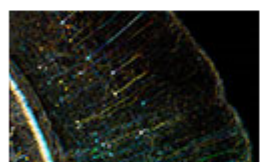


All About Polarization

Understanding and manipulating the polarization of light is crucial for many optical applications. Optical design frequently focuses on the wavelength and intensity of light; however, polarization is an important property of light. It affects the focus of laser beams, influences the cut-off wavelengths of filters, and assists in preventing unwanted back reflections. It is essential for many metrology applications such as stress analysis in glass or plastic, pharmaceutical ingredient analysis, and biological microscopy.

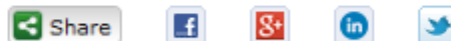
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Peering into the Nanoworld with Optical Microscopy



From brain mapping to breaking the laws of physics, optical microscopy has made huge leaps forward in recent years. But as new dimensions open up, it's clear the real work has only just begun.

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Metamaterial Waveguide Confirms Theoretical Prediction

"Nonlinear optics is critically important to controlling light for information processing, sensing and signal generation," said Georgia Tech professor Wenshan Cai. "Our effort substantially expands the scope of nonlinear light-matter interactions in artificially structured media with engineered, unconventional linear and high-order material parameters."

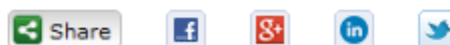
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Electro-Optical Modulators Empower Lasers for Science Applications

Scientific fields such as atomic physics, chemistry, biology and even astronomy are inspired by the use of lasers and ultimately will benefit from the addition of electro-optical modulators.

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