BIOPHOTON

BRINGING LIGHT TO THE







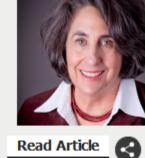




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Auspicious Beginnings MARCIA STAMELL, ASSOCIATE MANAGING EDITOR



Capabilities

The scope of biophotonics never ceases to amaze. But even within this ever-expanding field, the new technologies

developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more.

9990

described in this issue augur a bright start, photonically speaking, to a new year.

increasingly complex studies.

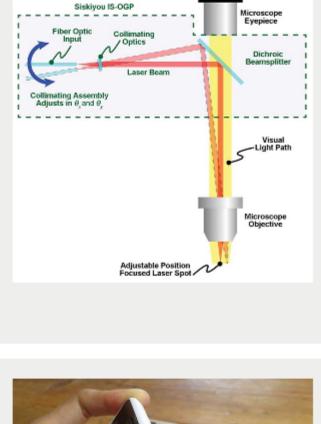
Smartphones Poised to Shake Up Spectroscopy

Spectrometers in smartphones hold promise for pathogen identification, food testing and blood glucose monitoring. Yet research-grade spectrometers still deliver superior range and

Modular Accessories Expand Fluorescence Microscope

From neuroscience to morphogenesis and photosynthesis, optomechanical

modules allow researchers to utilize fluorescence microscopy in diverse and



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resolution.



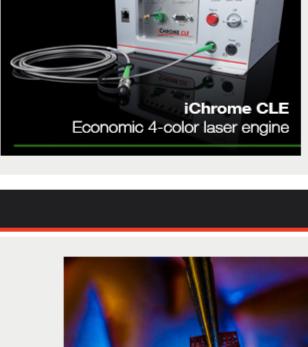




BOOST LAB PRODUCTIVITY WITH USHIO'S PHOTO ABSORBANCE SENSOR (PAS) PICOEXPLORER"



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opaque metal electrode arrays.

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opportunities to advance techniques that may not be possible using conventional



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bees.

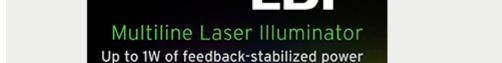




89 (NORTH

Berlin Hosts First Micro Photonics Conference





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Sputtered Metal Deep-UV

Chroma Technology Corp.

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Laurin Publishing Announces

Guide, announces the availability of two

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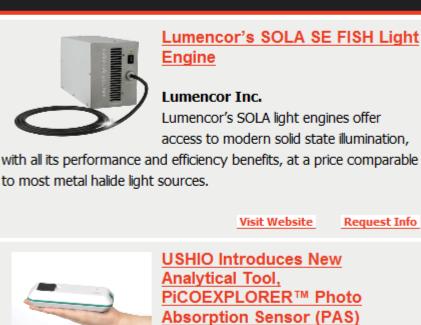
Interference Filters

Chroma Technology's sputtered metal UV interference filters offer



Near-IR light therapy has been shown to counteract the harmful effects of neonicotinoid pesticides and improve survival rates of poisoned

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OBLIQUE SINGLE PLANE ILLUMINATION

imaging from the tilted top objective.

The oSPIM is two microscopes in one. The

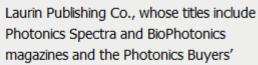
lower microscope can be used for conventional fluorescent imaging including WF, confocal, and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet

MICROSCOPE (OSPIM)

www.asiimaging.com

the highest levels of Deep UV transmission of any UV metal coated filters available.





Poster Series

Photonics Media

posters featuring art that takes a lighthearted look at the early days of the photonics industry.

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USHIO

The USHIO PiCOEXPLORER™model PAS-110 handheld photo absorption sensor utilizes patent pending, Silicone Optical Technology™ (SOT), a unique new concept designed to suppress

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USHIO America Inc.

Inc. ASI's Oblique Single Illumination Microscope (oSPIM) is an excellent platform for high resolution light sheet microscopy for samples mounted in standard coverslip-bottom culture dishes.

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JUNE 26-29, 2017, MESSE MÜNCHEN

LASER PHOTONICS

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Webinars An Introduction to Back Illuminated sCMOS Cameras Tue, Feb 14, 2017 1:00 PM - 2:00 PM EST Scientific CMOS (sCMOS) cameras are increasingly becoming detectors of choice for a range of quantitative imaging and spectroscopy

High-Speed Imaging At and Beyond the Diffraction Limit Thu, Feb 16, 2017 1:00 PM - 2:00 PM EST Hari Shroff, Ph.D., head of the Section on High Resolution Optical Imaging at the National Institute of Biomedical Imaging and Bioengineering (NIBIB), will speak on his lab's latest work to develop high-resolution optical methods for the study of live, dynamic, 3D samples, including efforts to improve structured illumination microscopy (SIM) and light-sheet microscopy. He will also discuss developments in

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applications. This webinar, presented by Princeton Instruments, will give you an overview of sCMOS camera technology and how it compares

technology over previous generations; performance criteria of low light detectors; and how to select the optimum detector technology based

to CCD, EMCCD and ICCD low light imaging and spectroscopy detectors. It will cover the key improvements of "back illuminated" sCMOS

on your application requirements. The webinar is aimed at both beginners and advanced users of various optical diagnostic techniques.

Coming in February...

Features NIR Spectroscopy; Fluorescence Imaging; Ophthalmological Lasers, Adaptive Optics

Issue Bonus

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Annual Spectroscopy Sourcebook Research, Market Report, Directory

inverted selective plane illumination microscopy (iSPIM) and dual-view iSPIM.

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