BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES®











Media membership at Photonics.com/subscribe.

sponsor

and product developments in lasers, imaging, optics, spectroscopy, microscopy, lighting and more. Manage your Photonics



simultaneously measure body temperature and take images deep inside the body. The single-fiber-based image and sensing probe uses an OCT lens fabricated at the distal end of a double-clad fiber. The

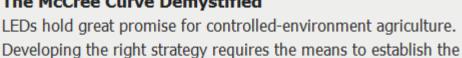
A miniaturized fiber optic probe has been invented that can

fiber has a thin layer of rare-earth-doped tellurite glass to enable temperature measurements. The high refractive index of the tellurite glass enables a common-path interferometer configuration for OCT, allowing easy exchange of probes for biomedical applications. Read Article (4) (in (v)

The McCree Curve Demystified







optimal wavelengths and spectral ratios. The McCree curve has been used to provide a means to establish the optimal wavelength selections

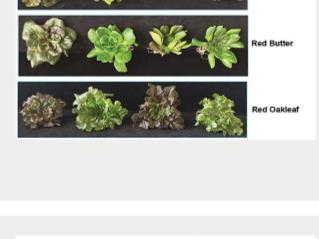
R/B

Lettuce Cultivars

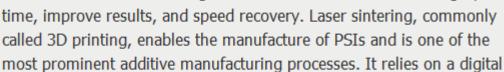
R/B/W

and spectral ratios for different crops. However, it is often

misinterpreted and is often misrepresented in internet resources. What does the McCree curve tell us? And is this the right strategy to use when engineering horticultural LED systems? Read Article (4) (f) (ii) 3D Printing Creates Patient-Specific Implants

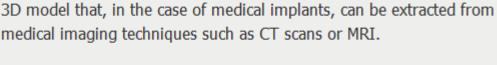


Laser-assisted manufacturing can build devices that shorten surgery









Featured Products

Coatings

Alluxa

performance optical thin film solutions available today.

For example, the Ultra Series Flat Top Narrowband filters

offer the narrowest bandwidths and squarest filter profiles

Visit Website



It Just Keeps Getting Better....

Lumencor's new SOLA SE nIR Light

Request Info

Request Info

Engine with added Cy7 excitation.

Lumencor Inc.

Breadth: UV + visible + nIR light: 350–760 nm

Control: Light on/off and graduated intensities

designed for light sheet microscopy of cleared tissue

Illumination Microscopy (dSPIM), which enables isotropic

Biophotonics

KrellTech

samples, including ASI's dual-view Selective Plane

resolution without manipulating the sample.

Ease: No maintenance, no consumables, mercury—

Visit Website

Applied Scientific

Instrumentation Inc.

Visit Website

The Ultimate Polisher for

NOVA™ is multi-configurable,

connectors to endoscopes, OCT

supporting a variety of biophotonic

Cleared Tissue Objective

The Cleared Tissue Objective is an

immersion objective lens specifically

Brightness: ~ 4.0 W optical output

free

in the industry.

stereomicroscopes.

grouping concept.

E₹CELITAS

In Case You Missed It





Excelitas Technologies Corp.

Brilliance Across the Spectrum

X-Cite® XYLIS is a true arc lamp

replacement for routine and

Request Info

Request Info

Request Info

Alluxa Ultra Series Filters, including

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

advanced fluorescence imaging applications. It has the broadest spectrum available in a white light LED for fluorescence microscopy and rivals traditional arc lamps for brightness

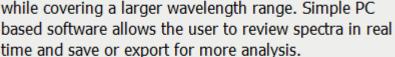
making it ideal for both compound and

Compact, Low Cost <30pm Resolution in the VIS and NIR LightMachinery Inc.

The Hornet Spectrometer achieves the resolution of large

grating spectrometers at a fraction of their cost and size

Visit Website



Visit Website

Intensity CoolLED Ltd. The CoolLED pE-4000 now benefits from our award winning sustainable Green technology. This provides enhanced intensity where it matters for

Visit Website Request Info Finally... a True Arc Lamp Replacement

X-Cite® XYLIS - Brilliance

across the spectrum

sponsors

Now Available

Click for more...

NEW pE-4000 with Enhanced



Buyers' Guide.

imaging and dramatically reduces the power consumption. Every pE-4000 boasts 16 selectable LED sources arranged conveniently in 4 channels, using our patented wavelength

bare fibers to image bundles, as well as custom components. NOVA™ is scalable for R&D projects, high

Photonics Media

polishing applications from

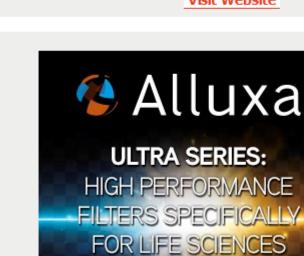
volume production, and field maintenance. Request Info Visit Website The 2018 Photonics Buyers' Guide

> sensors, detectors, test and measurement, light sources, fiber optics, spectroscopy, materials and coatings -- you need the Photonics

> > Visit Website

If you buy products and services

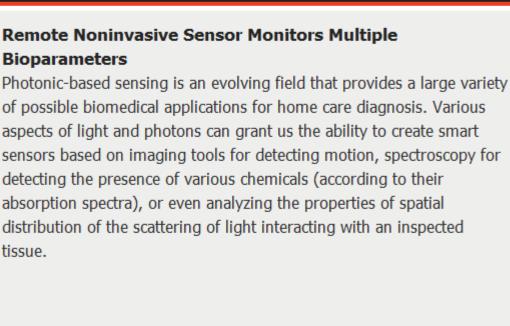
related to lasers, optics, imaging,



ULTRA SERIES: HIGH PERFORMANCE

GET YOUR FILTER

Request Info



Drug development consultant company Certara LP has acquired Analytica Laser, a consultancy for medicine and health

sponsors



technology.

tissue.



Read Article 🚷 🚹 🛅 💟

triangular prism to one side of a cube.

Read Article (2) (1) in (2)

Certara Acquires Analytica Laser







CLEARED TISSUE

OBJECTIVE Specially designed for

light sheet microscopy of

cleared tissue sample, it

includes ASI's dSPIM

microscope configuration enabling isotropic

resolution without

manipulating the sample.

It offers sub-micron resolution in X, Y, and Z when used in multi-view system.

www.asiimaging.com

Photonic Hook Could Enable Optical Manipulation of Nanoparticles A curved photonic nanojet, called a photonic hook, was created using an asymmetric cuboid, formed by appending a Machine Vision A new resource on system design and selection, applications, cameras and sensors, image processing, software and more. Order Now!

www.photonics.com/store

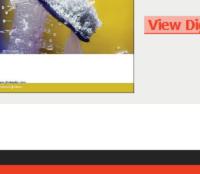
Webinars

are finding application in the fields of augmented reality and head-up

application of holography in all of these areas and the technological advantages of holography over other techniques. This webinar is sponsored by RPMC Lasers Inc. and UnikLasers Ltd. Register Now **About BioPhotonics**

BioPhotonics is the global resource for research, business and product news and information for the biophotonics community and the industry's only stand-alone print and digital magazine.

BIOPHOTONICS



View Digital Edition Manage Membership

Questions: info@photonics.com

© 1996 - 2018 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

Visit Photonics.com/subscribe to manage your Photonics Media membership.

Holography for Display: From AR to HUD to 3D Tue, Jun 12, 2018 1:00 PM - 2:00 PM EDT Because holograms have the advantage of being thin and light, they

display, where constraints on the size and weight of the optics exist. Holograms can also be used for integral imaging-based 3D display, lensless projection, and lidar beam steering. Professor Pierre-Alexandre Blanche from the University of Arizona will discuss the