



STABILIZING THE LINE QF SIGHT

By Peter J. Kennedy and Rhonda L. Kennedy A methodology and an example for executing a successful end-to-end line-of-sight pointing design. **NEW from Photonics Media Press EPHOTONICS MEDIA PRES** Order today >

Biosensing

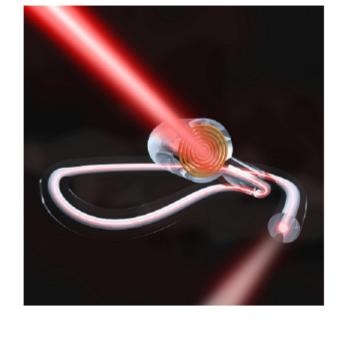
Communication

.: Top Stories

### Optics Researchers from ITMO, in collaboration with the Leibniz Institute of Photonic Technology and Australian National University, have resolved

Nanostructure Allows Large Incidence Angles in Fiber

the fundamental problem of light coupling into optical fiber at incidence angles of over 70°. Read Article



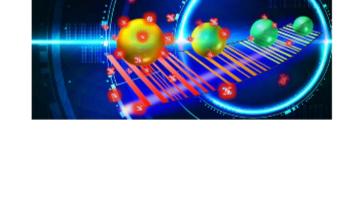
### liquid droplet, generated radiative energy that successfully converted dynamic biomolecular information into trillions of distinctive photonic

Photonic Barcodes Pave New Roads for Encryption,

Bioresponsive barcodes, capable of detecting molecules in a single

barcodes. Microdroplet radiative energy that was transferred to binding biomolecules enabled the conversion. Read Article

Light-Driven Quantum Network Promises Faster, Enhanced



## University of Rochester and Cornell University designed a nanoscale node capable of using laser light to emit and accept photons to interact

Using magnetic and semiconducting materials, researchers at the

with other nodes. Read Article

KEYNOTE: Surface Functionalization with Femtosecond Lasers and Applications

Lasers Track to Spotlight Wide Ranging Applications, Techniques



# Presented by: Chunlei Guo, The Institute of Optics, University of Rochester

In his keynote, Chunlei Guo will discuss developments in femtosecond laser micro- and nanopatterning, including formation dynamics, drastically altered surface functionalities, and various applications. Among Guo's considerable accomplishments is the application of femtosecond lasers to high-precision materials processing and functionalization, including the development of superhydrophilic and superhydrophobic surfaces, as

multiphoton imaging in neuroscience, and the expanding application of blue lasers in materials processing. For more information and to register, www.photonics.com/pscinfo.

Other highlights from the lasers track feature the use of fiber lasers in e-mobility applications, the role of lasers and

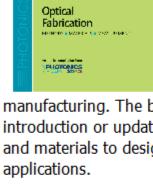
well as so-called black and colored metals. Guo's work has supported efforts to expand clean water solutions on a global

scale, which led to funding from the Bill & Melinda Gates Foundation.

Register Now

### Photonics Media Optical Fabrication is a new

.: Featured Products



Visit Website

#### or interested in the methods, materials and measurement

Optical Fabrication

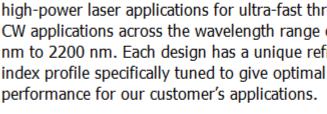
lens and optical component manufacturing. The book will serve as an introduction or update, moving beyond methods and materials to design and complex modern

Request Info

techniques used in modern

book for anyone working on

**EXHIBITION: 7 - 9 DECEMBER ECOC EXHIBITION 2020** VIRTUAL EVENT



#### high-power laser applications for ultra-fast through CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive

Northrop Grumman

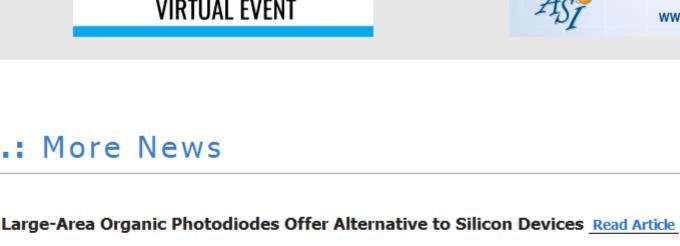
SYNOPTICS Now Offers

**IBS Coatings** 

Synoptics

Quasi-Rugate thin film designs are optimized for

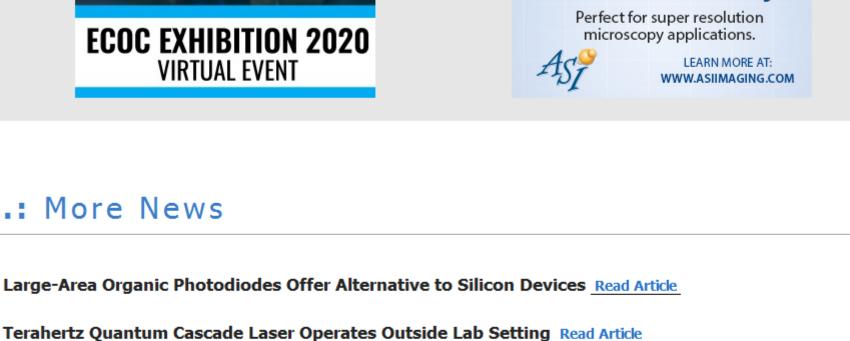
Visit Website Request Info



Pleora Appoints Jonathan Hou President Read Article

PerkinElmer Acquiring Horizon Discovery Read Article

CONFERENCE: 6 - 10 DECEMBER



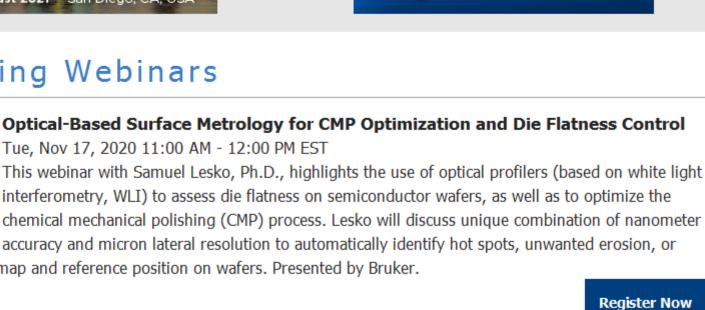
The Ultra Precise Piezo-Z Stage

# TRUMPF and SICK to Develop Industrial Quantum Sensor Read Article

SPIE.



Optical engineering, nanotechnology, quantum science, organic photonics, and



**PHOTONICS** 

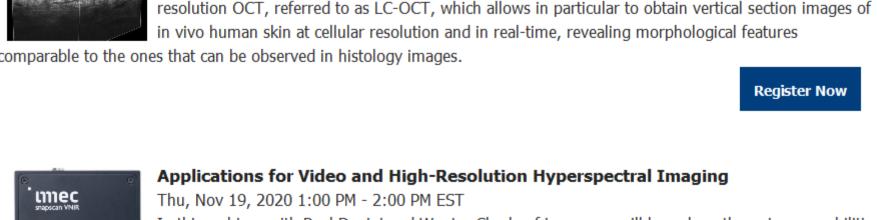
CONFERENCE

Register for free!

spectra\*

2021

Line-Field Confocal Optical Coherence Tomography (LC-OCT): A New Tool for



imec.

## comparable to the ones that can be observed in histology images. Register Now

This webinar with Jonas Ogien, Ph.D., of DAMAE Medical in France, will present a technique for high-

Noninvasive Cellular-Resolution Imaging of Human Skin

In this webinar with Paul Danini and Wouter Charle of imec, you will learn how the unique capabilities of hyperspectral imaging are applied to innovate businesses, applications, and research. The webinar will also elaborate on imec's unique on-chip technology and off-the-shelf camera systems, as well as

Wed, Nov 18, 2020 10:00 AM - 11:00 AM EST

advanced imaging software and the comprehensive support tools that imec can provide. Presented by



CALL FOR ARTICLES!

our magazines (*Photonics Spectra, BioPhotonics, Vision Spectra,* and *EuroPhotonics*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our online submission form.

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in



Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 1996 - 2020 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.

Register Now