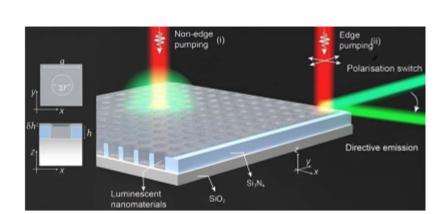


### Weekly News

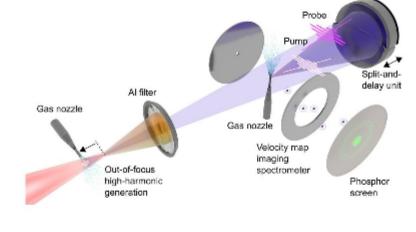




light emission, the team said. Read Article

### Supercritical Coupling Boosts Photon Upconversion

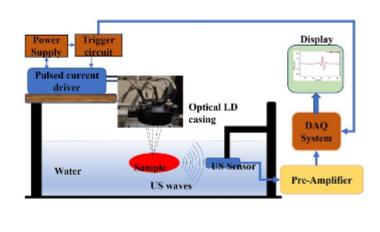
Researchers at the National University of Singapore have unveiled a novel concept termed supercritical coupling that enables a several-fold increase in photon upconversion efficiency. This discovery not only challenges existing paradigms, but also opens a new direction in the control of



## Attosecond Spectroscopy Milestone Reached

Researchers at the Max Born Institute in Berlin have

demonstrated attosecond-pump attosecond-probe spectroscopy at a repetition rate of 1 kHz. The advance opens new avenues for the investigation of extremely fast electron dynamics in the attosecond regime. Read Article



## Photoacoustic Device Probes Tissue with Low-Cost Laser Diodes

to probing biological tissues, but have seen limited use in clinical applications, partially due to bulky, expensive laser sources. A compact PA sensing instrument for biomedical tissue diagnosis, powered by laser diodes, could provide clinicians with a practical, effective tool for evaluating breast disease. Read Article

Photoacoustic (PA) technologies offer a noninvasive approach





Featured Products & Services



Yokogawa CSU

ZIVA Light Engine for

Lumencor Inc. Yokogawa's CSU is

cells, tissues, and microorganisms. Lumencor's ZIVA Light Engine offers seven lasers in support of the CSU-W1 at a price well below that of the scanner. A precision-engineered coupler yields intense, uniform light at the sample plane from the compact, bench-top illuminator. Visit Website Request Info

extensively used for 3D confocal imaging of live



Buyers' Guide

available! It lists over 4000 companies under 1600 product categories and includes 30 articles from the Photonics Handbook. Use coupon code HP24 for a special offer!

Visit Website Request Info





Exceptional Image Quality

Cost-effective, industrial-grade cameras are an

important growth driver for automation. IDS Imaging Development Systems' portfolio of lowcost cameras is aimed specifically at price-sensitive applications. New: tiny industrial uEye XCP/XLS cameras with the high-resolution 20 MP sensor onsemi AR2020. Visit Website Request Info



Visit Website

Request Info



# DMD-Based SIM Attains Fast Superresolution Bioimaging in 3D

More News

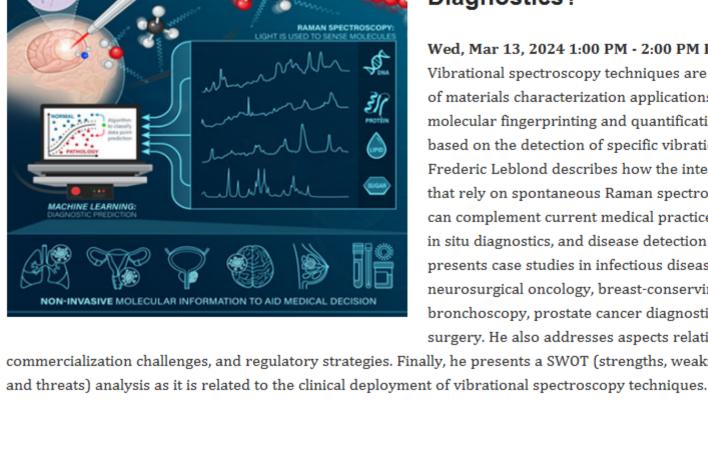
UK Funding Fuels Future Telecom Research

Terahertz Biosensor Allows Early Skin Cancer Detection

Photonics West 2024: Notable Trends and an Excursion

LATFORM TECHNOLOGY

**Latest Webinars** 



editorial@Photonics.com, or use our online submission form.

### Wed, Mar 13, 2024 1:00 PM - 2:00 PM EDT Vibrational spectroscopy techniques are used for a wide range of materials characterization applications that require detailed molecular fingerprinting and quantification of molecular species based on the detection of specific vibrational bonds. In this talk,

What is the Role of Vibrational

Spectroscopy in Surgery and

Diagnostics?

Frederic Leblond describes how the integration of technologies

that rely on spontaneous Raman spectroscopy signal detection can complement current medical practice for surgical guidance, in situ diagnostics, and disease detection in biofluids. He presents case studies in infectious disease detection, neurosurgical oncology, breast-conserving surgery, bronchoscopy, prostate cancer diagnostics, and orthopedic surgery. He also addresses aspects relating to clinical translation, commercialization challenges, and regulatory strategies. Finally, he presents a SWOT (strengths, weaknesses, opportunities, Register Now

**Call for Articles** 

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

(Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100-word abstract to



Questions: info@photonics.com

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 1996 - 2024 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