

# Asia-Pacific PHOTONICS



PHOTONICS MEDIA

Quarterly newsletter highlighting the latest photonics news, features and products targeted to the Asia-Pacific regional market. Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

sponsor

**STABILIZING THE LINE OF 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.

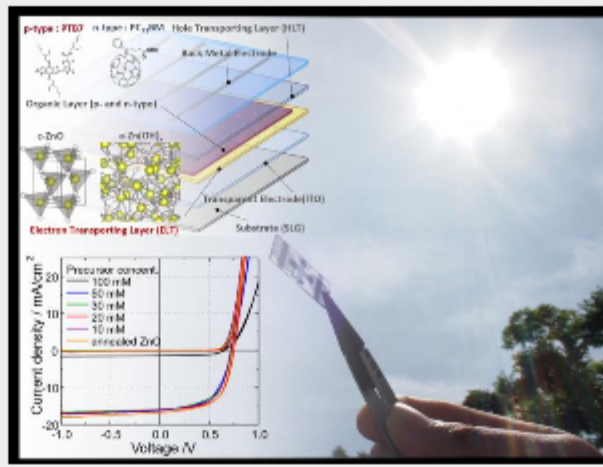
NEW from PHOTONICS MEDIA PRESS

Order today ▶

## Asia-Pacific News

### Coating Technique Uses Solution, Not Heat, to Create OPV Interlayers

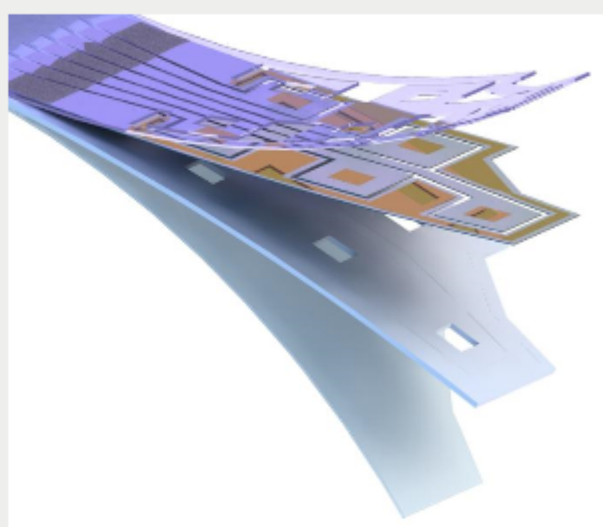
Researchers have developed a spin coating technique to create zinc-related oxide (ZnOx, ZnOHx) ultrathin films (ceramic films) for use as buffer layers for organic photovoltaic (OPV) cells. Buffer layers, also called OPV interlayers, separate electrons from the holes produced by light energy and transport electrons and...



[Read Article](#)

### Device Built via Laser Lift-Off Could Advance Precision Medicine

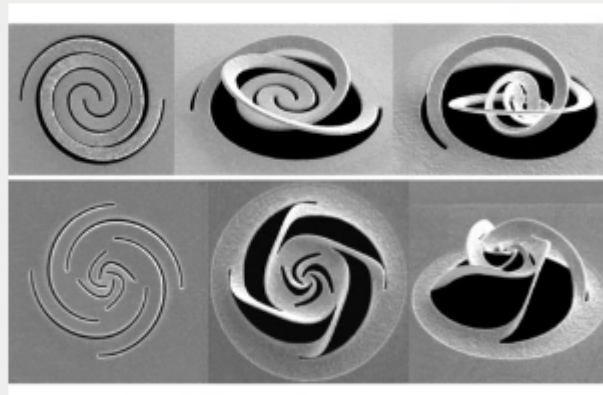
Researchers have fabricated a flexible drug delivery microdevice (f-DDM) with controlled release using a laser micromachining technique. The device could provide controlled release for personalized drug therapy to organs with curved surfaces, such as the brain or the eye. The researchers, from the Korea Advanced Institute...



[Read Article](#)

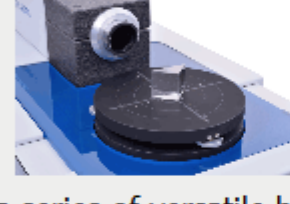
### Kirigami-Inspired Technique Manipulates Light at Nanoscale

Researchers have applied the principles of kirigami — the traditional art of paper folding and cutting — to the fabrication of advanced 3D nanodevices for manipulating light. The team believes that "nanokirigami" could offer an intelligent 3D nanofabrication method beyond traditional bottom-up, top-down, and self-assembly nanofabrication techniques.



[Read Article](#)

## Featured Products



### Precise Prism Angle Measurement

**TRIOPTICS GmbH**

PrismMaster® from TRIOPTICS is a series of versatile high precision-goniometers for optical angle measurements on prisms, polygons and wedges. Their automated measurement process ensures fast and operator-independent measurements. The overall concept of the PrismMaster® series follows the simple philosophy to provide a user-friendly high-precision instrument with unrivalled levels of accuracy.

[Visit Website](#) [Request Info](#)



### Alluxa Ultra Series Filters and Coatings

**Alluxa**

Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch filters, provide the highest performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry.

[Visit Website](#) [Request Info](#)



### pco.panda 4.2 bi: Back Illuminated sCMOS

**PCO-TECH Inc.**

The pco.panda 4.2 bi is the world's first back-illuminated sCMOS camera with nearly perfect quantum efficiency in an ultra-compact design! Key features:

- Quantum efficiency up to 95%
- 65 x 65 x 65 mm<sup>3</sup> dimension
- Passive cooling
- 2048 x 2048 pixels
- 6.5 μm<sup>2</sup> pixel size

[Visit Website](#) [Request Info](#)



### PM Coupler Arrays

**Evanescent Optics Inc.**

Splice-free cascaded PM couplers can be manufactured as 1 X N and 2 X N coupler arrays with any output ratios and at wavelengths from 0.45μm to 2.04μm. PER is better than -24dB per coupler, with loss typically less than 0.1dB per coupler. The program "Cascade" models the output characteristics and can be downloaded from the company's website.

[Visit Website](#) [Request Info](#)



### Remote Sensing

**Photonics Media**

From space and the sky around us to firmly on the ground, remote sensing is providing an important view of our surroundings that can't be seen with our eyes alone. A variety of optical technologies are having an impact on applications as diverse as agriculture and defense, weather and climate, and are now part of the...

[Visit Website](#) [Request Info](#)



### Dual Light Sheet Microscopy

**Applied Scientific Instrumentation Inc.**

ASI's Dual Selective Plane Illumination Microscopy for Cleared Tissue (ct-dSPIM) is one of many light sheet microscope configurations possible using our modular components. This flexible and easy-to-use Selective Plane Illumination Microscopy (SPIM) implementation allows for dual views of large samples.

[Visit Website](#) [Request Info](#)

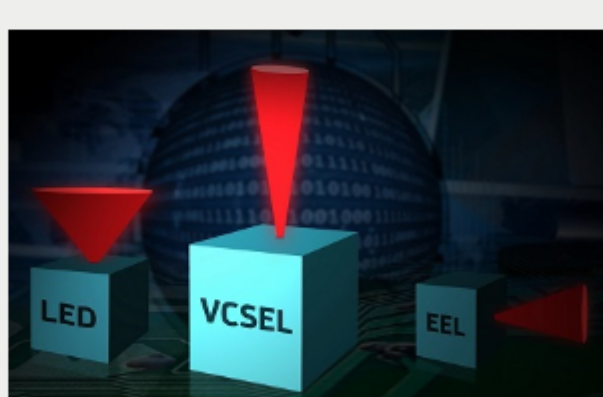
sponsors



## More News

### Faster High-Capacity Internet Networks via Photonics

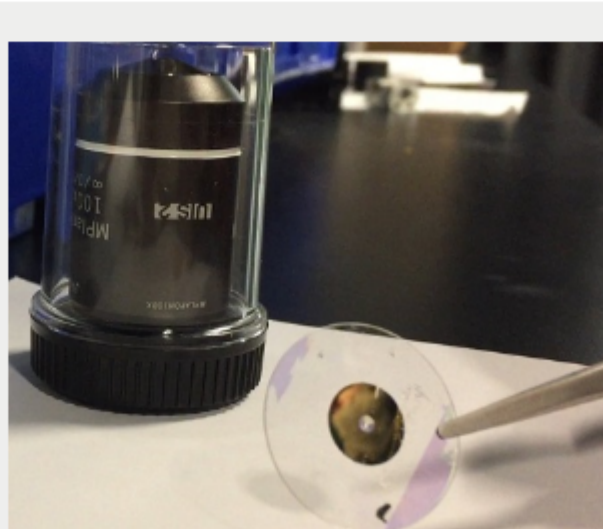
EU scientists are using vertical-cavity surface-emitting laser (VCSEL) sources with photonic integrated circuits, optical switches, and semiconductor optical amplifiers to develop long-wavelength, high-capacity communications. This could pave the way for light-speed metropolitan connectivity and power new smart services like future gaming and on-demand TV.



[Read Article](#)

### Capasso Group Develops Flat Lenses with Same Technology Used to Make Chips

Members of the Capasso Group at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have developed a single flat lens that can focus the entire visible spectrum of light in the same spot and in high resolution.



[Read Article](#)

### Basler, Beijing Sanbao Xingye Image Tech Establish Joint Venture in China

Industrial camera developer Basler AG has signed a joint venture agreement with distributor Beijing Sanbao Xingye Image Tech Co. Ltd. to establish Basler Vision Technology China in Beijing, with branches in Shenzhen and Shanghai. Beijing Sanbao Xingye Image Tech has been Basler's distribution partner in China for...

[Read Article](#)

### Mitsubishi Electric Acquires ASTES4 SA

Mitsubishi Electric Corporation announced the acquisition of ASTES4 SA, a company based in Switzerland that is engaged in development, production, and sales of patented automated sorting solutions for sheet metal laser processing machines. With ASTES4 as a wholly owned subsidiary, Mitsubishi Electric will offer integrated...

[Read Article](#)

### Rofin-Sinar UK Opens China Office

Rofin-Sinar UK Ltd. has opened a new office in Shanghai. Baldwin Ding, managing director of Rofin-Sinar UK China, together with Jianyong Wei, technical support manager, and Scott Yao, sales and service order processing supervisor, will be responsible for the sought CO2 laser source, high-speed, CO2 laser marking systems,...

[Read Article](#)