

# This Week in PHOTONICS

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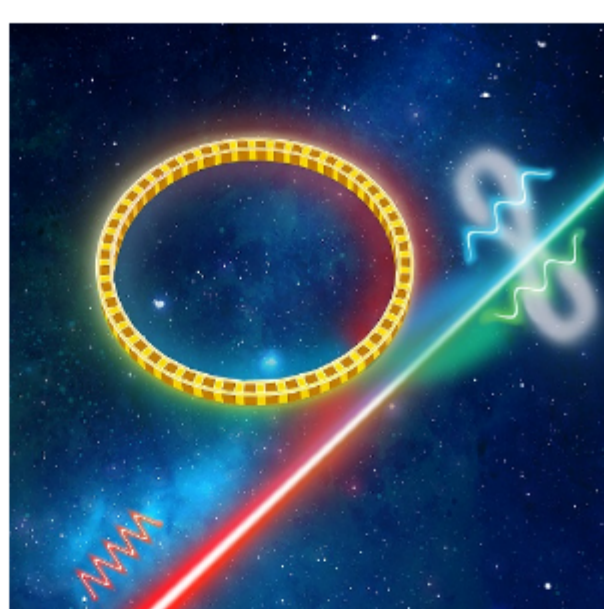
EXCELITAS TECHNOLOGIES

## Top Stories

### Chip-Based Source Creates Entangled Photons with Nearly 100x More Efficiency

In pursuit of a fast and efficient source of entangled photon pairs necessary for quantum computing and ultrafast communications, researchers from Stevens Institute of Technology have developed a chip-based source capable of producing entangled photon pairs 100x more efficiently than previously possible.

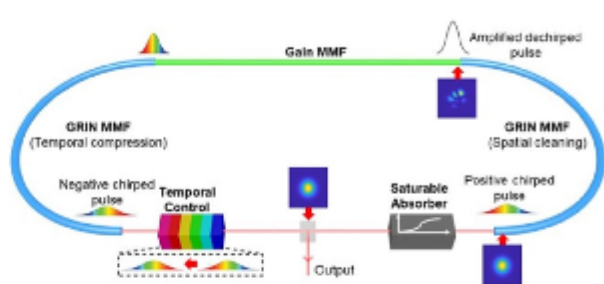
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### Nonlinear Beam Cleaning in Spatiotemporally Mode-Locked Lasers

Researchers from École Polytechnique Fédérale de Lausanne (EPFL) have developed a method of nonlinear beam cleaning in a multimode laser cavity. The technique establishes a new approach for the generation of high-energy ultrashort pulses with single-mode beam quality.

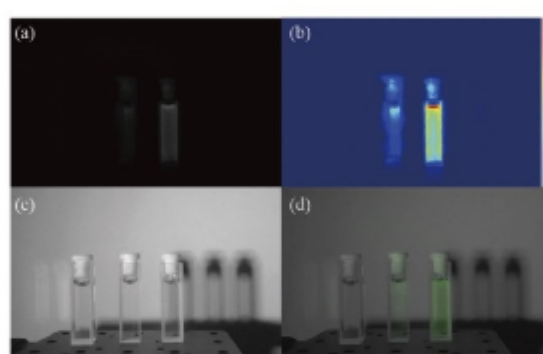
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### Mantis Shrimp-Inspired Endoscope Simultaneously Images in Visible 3D and Near-Infrared

Researchers from the Chinese Academy of Science developed an endoscope capable of acquiring 3D visible light and near-infrared fluorescence images at the same time. The optical design combined high-resolution 3D imaging capabilities with the ability of the mantis shrimp to simultaneously detect multiple wavelengths of light.

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## Featured Products



### 222 nm UV-C Radiometer for Excimer Lamps

**Gigahertz-Optik Inc.**  
far-UVC light, for example

222nm produced by Kr-Cl excimer lamps, has been shown to effectively inactivate bacteria but with less photobiological hazard for humans. This is because far-UVC light cannot penetrate human skin or eyes as deeply as longer wavelength UV radiation.

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