PHOTONICS







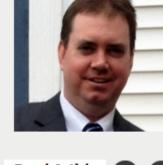




spectra

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

From the Editor's Desk Optimal Conditions, Great Viewing



MIKE WHEELER, MANAGING EDITOR

Nestled in the Andes mountain range in the Atacama Desert in Chile sits the Las Campanas Observatory. At an elevation of

almost 8,000 feet, the remote location is prized for its dark skies, excellent weather and superior visibility. Soon it will be home to the Giant Magellan Telescope (GMT) now under construction.





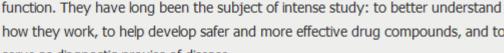


Cells are the building blocks of organisms. From yeast and bacteria to elephants

and whales, cells are the fundamental units of both biological structure and

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In Vitro Diagnostics, Immunology Spurring Advances in Flow Cytometry

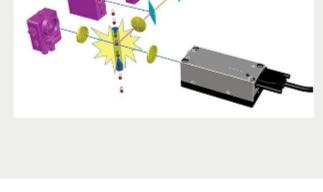


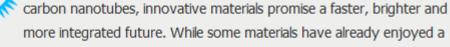
how they work, to help develop safer and more effective drug compounds, and to serve as diagnostic proxies of disease.









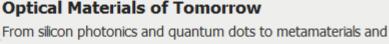












measure of commercial success, for others, the future promises anything from niche applications right up to market disruption and displacement of existing



technologies.









Multi-Kilowatt Fiber Laser



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Aluminum Nitrite Absorber Coating

The concentrated solar market is often overshadowed by photovoltaic (PV) panels, yet the market segment is expected to grow by nearly 20 percent annually

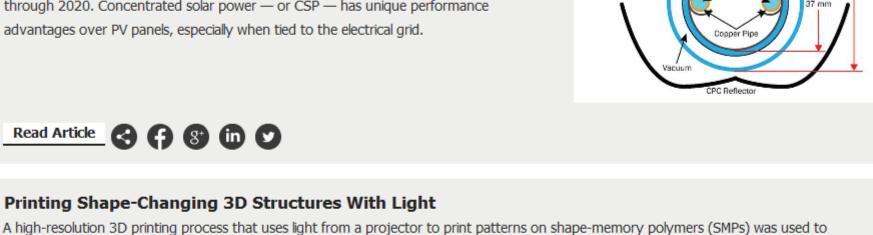
Reflector Design

advantages over PV panels, especially when tied to the electrical grid.

through 2020. Concentrated solar power — or CSP — has unique performance

Maximum Exposure: Ray-Tracing Software Optimizes

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lasers in microscopy and telecommunications.





Printing Shape-Changing 3D Structures With Light



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Optical Vortex Discovery Could Lead to Microscopy, Fiber Optics Advances

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3D ring-shaped light structures, generated by high-intensity lasers, have been identified and could lead to new opportunities for the use of





Splice or process

fibers with 80 µm up to 2.3 mm diameter

FAFL

Featured Products





Laser Splicing System

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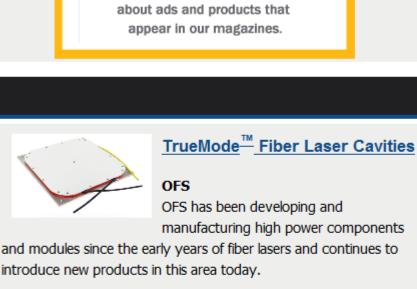
Splicing and Glass Processing

The LAZERMaster LZM-110M, LZM-110P,

LZM-110M+ and LZM-110P+ splicing and

glass processing systems from AFL use

a CO2 laser heat source to perform



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Zurich Instruments AG With the launch of the 5 MHz MFIA, Zurich Instruments is introducing a new type of impedance analyzer and precision LCR meter. The

instrument is based on Zurich Instruments' proven lock-in amplifier

and LCR Meter



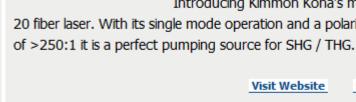
Gooch & Housego Orlando Gooch & Housego has announced the OL 455-6KSA Elongated Integrating Sphere Source. The device

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TRIOPTICS Applications and Product Portfolio

features an elongated sphere design to reduce the nonuniformity



position motorized filter wheel.

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Kimmon Koha USA Inc. Introducing Kimmon Koha's model KKFL-20 fiber laser. With its single mode operation and a polarization ratio

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fast, highly sensitive MWIR camera

designed with advanced triggering, on-

camera RAM/SSD recording, and a four-

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FLIR Systems Inc. The FLIR X6900sc is an extraordinarily

FLIR High Speed Cameras - The

Unprecedented Luminescence Lifetime Imaging Camera: the pco.flim PCO-TECH Inc.

The camera has a revolutionary image sensor and makes use of

fluorescence lifetime imaging in the frequency domain, making it suitable for numerous applications in the field of biomedical research.

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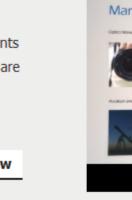
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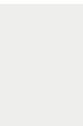
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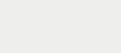


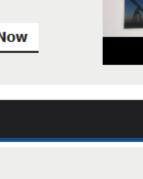


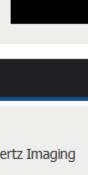




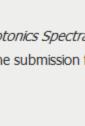














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