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Options Modern silicon photonic integrated circuit (PIC)-based devices offer

As PIC Production Ramps Up, Fabricators Eye Alignment

many advantages compared to standard electronic integrated circuits. PIC devices can be manufactured using many of the same wafer-andchip fabrication processes, but they consume less power, produce less heat, and can transmit data at higher speeds, without sacrificing signal strength or quality. And it is now clear that these advantages will have a transformative impact on a range of emerging technologies. Read Article



including eye surgery, fabrication of implantable medical devices, photovoltaics scribing, surface functionalization, glass cutting, and polymer film cutting for the manufacture of displays and

Today, femtosecond lasers find use in a wide range of applications,

Industrial Femtosecond Laser Advancements Power Next-

Generation Applications

microelectronics. In micromachining applications, there is an especially strong demand for higher power and repetition rates to achieve the higher throughputs necessary for high-volume manufacturing. Read Article



develop LED-based options with sufficient brightness to replace tungsten incandescent bulbs and halogen-based illumination systems.

Lighting Advancements Add Muscle to Machine Vision

LED efficiency gains have allowed machine vision lighting suppliers to

While some industrial settings use cool white lights for illumination, many machine vision applications rely on colored, infrared, and ultraviolet LEDs to optimize key details in captured images. Read Article



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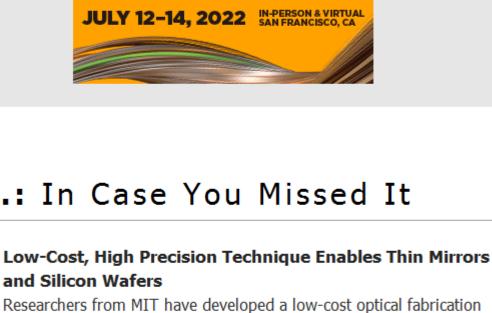
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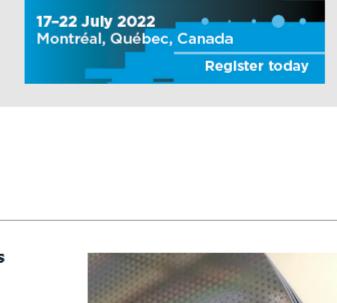
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eliminates distortion and enables researchers to bend surfaces more arbitrarily into the precise and complex shapes needed for high-level complex systems.

method that enables the production high-quality thin mirrors and

silicon wafers. The method reshapes thin-plate materials in a way that

Dynamic Beam Laser System Offers Real-Time Look into Melt Pool Laser developer and manufacturer Civan Lasers has delivered an OPA 6 dynamic beam laser to the University of Stuttgart's Institut fur Strahlwerzeyge. The DBL will form a system with IFSW's high-speed x-ray video facility for laser materials-

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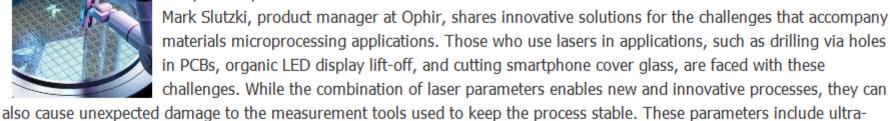
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x-ray light, supporting R&D in materials science, microchips, and batteries.

Achromatic X-Ray Lens Opens Pathways in Microscopy, Access to Light Sources



Laser Measurement Solutions for Materials Microprocessing Applications

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processing diagnostics. The system will enable researchers to view inside the melt pool during the laser welding process.

Scientists at Paul Scherrer Institute developed an achromatic lens for x-rays that allows x-ray beams to be accurately

focused on a single point even if they have different wavelengths. The lens will make it easier to study nanostructures with

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