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12+ webinar presentations on optics manufacturing, design, fabrication, coatings, metrology, and more



While thermal infrared imaging technology was once limited to defense and government-funded applications, it has become more mainstream

Thermal Imaging Takes the Temperature of New

over the past few decades. The growing awareness of the technology's industrial benefits has primarily been driven by the increasing popularity of hand-held thermal cameras for maintenance and electrical troubleshooting. Then came the COVID-19 crisis last year, and with it an onslaught of thermal imaging solutions flooded the market. A variety of thermal imaging sensor technologies and cameras have been used for fever detection, although, technically speaking, the sensors only measure surface skin temperature. Read Article

Worsening Wildfires Spark Photonics Demand and

Isabel National Forests west of Pueblo, Colo. The so-called Junkins fire ended up destroying nine homes and 17 other structures, and the

carnage could have been worse had it not been for photonics. Read Article

High-Energy Lasers Advance Defense and

consciousness, popular culture has reframed it as a

prospective weapon of infinite range and power. This is largely

has nevertheless prompted interest and investment in the laser's

engineering and physics. But the idea of light-based directed energy

potential military applications — where it is most often viewed as a

demonstrations have yielded promising results that indicate laser-based

because popular culture is unshackled from the concerns of

defensive countermeasure. Decades of government-funded

In October 2016, a downed powerline sparked a wildfire that raged for two weeks and destroyed more than 18,000 acres in the Pike and San



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Automated Glass

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weapons are finally ready for the battlefield.



processing system designed for the production of high-

power and sensitive photonic

is a CO2 laser glass-

Components Processing

NYFORS Teknologi AB

The NYFORS SMARTSPLICER

capping, splicing, tapering, bundling, and many other glass-shaping processes. Visit Website Request Info

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Norland's optical splice provides a high-performance

connection for optic fibers in a unique one-piece



Norland Products Inc.

design.

Hexapod

Hexapod is a parallel kinematic motion device that

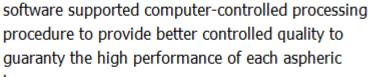
and yaw. The HXP50 has a 5 kg centered load

provides six degrees of freedom: X, Y, Z, pitch, roll,

capacity and is a cost-effective solution to complex

MKS/Newport

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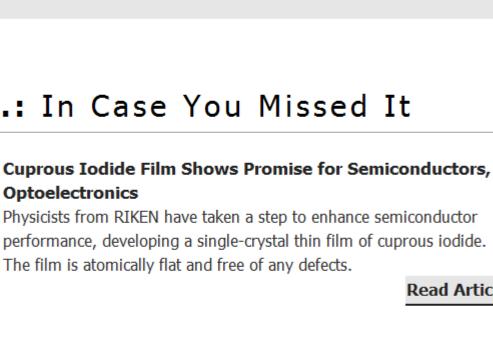
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Source Mask Optimization Technique Improves Extreme UV Lithography Researchers from the Shanghai Institute of Optics and Fine Mechanics of the Chinese Academy of Sciences proposed a source mask optimization technique for extreme-ultraviolet lithography based on a thick mask model and a social learning

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Light Source Offers Improved Evaluation of Quantum Materials

particle swarm optimization algorithm.

developed with a focal spot of less than 1 µm at a long focal length of approximately 45 mm using a spherical aberrationfree zone plate.

> OSA 100

Researchers from the College of Advanced Interdisciplinary Studies at the National University of Defense Technology

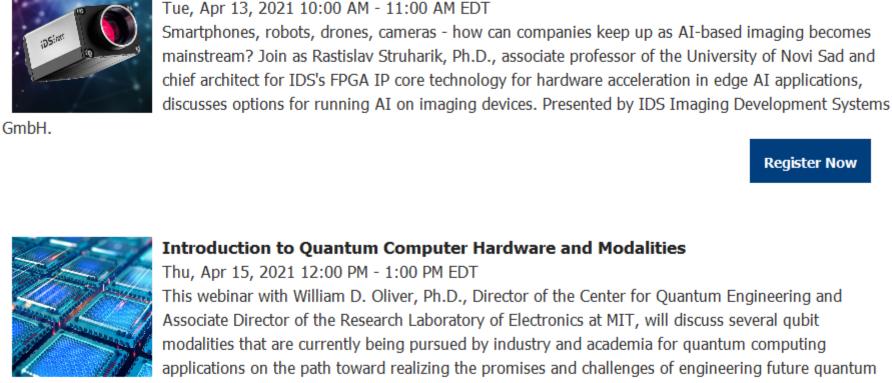
developed a vacuum ultraviolet (VUV) laser system for scanning photoemission microscopy. The 177-nm VUV system was Read Article

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machines. This webinar is the first presentation in Hamamatsu's Quantum Technologies Series, presented by Hamamatsu

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