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.: Top Stories

Deployment Viability

Silicon Photonics Value Chain German-based silicon chips foundry X-FAB is leading the European

European Consortium Launches to Bolster Continent's

Union-funded consortium photonixFAB to boost innovation within the European silicon photonics industry, and to increase sovereignty in the semiconductor and photonics industries in Europe. The project seeks to increase access to both low-loss silicon nitride- and silicon-oninsulator-based photonics platforms with indium phosphide and lithium niobate heterogenous integration capabilities. Read Article



Researchers from Toshiba Europe and global telecommunications operator Orange have demonstrated the viability of deploying quantum

Toshiba Europe and Telecom Partner Demonstrate QKD

key distribution (QKD) on existing commercial networks to protect transmissions from being decrypted by quantum computers. The demonstration and findings could help network operators reduce the cost of implementing QKD by removing the need to invest in dedicated quantum fiber infrastructure. Read Article

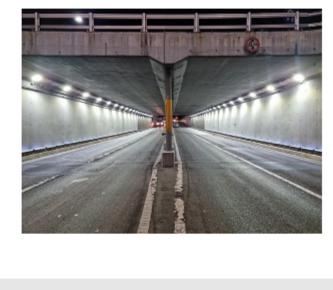


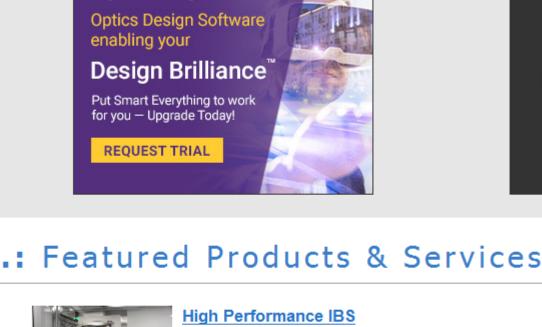
SYNOPSYS*

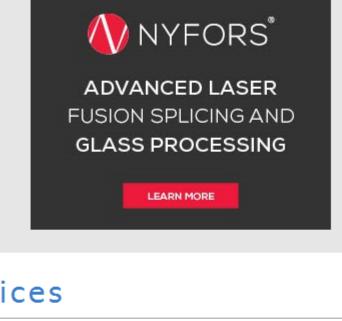
Light-Reactive Concrete Locks in Clean Air

remove fine particulate matter on roads. The technology holds promise for underground road tunnels, where poor air circulation prevents removal of fine particulate matter from automobile exhaust gases which in turn contributes to poor air quality. Read Article

Researchers at the Korea Institute of Civil Engineering and Building Technology (KICT) have developed a photocatalytic concrete that can







Drivers

MKS/Newport

Coatings Northrop Grumman



Synoptics Quasi-Rugate thin film designs are optimized for

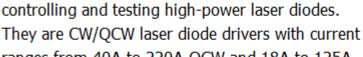
nm to 2200 nm. Each design has a unique refractive

index profile specifically tuned to give optimal performance for our customer's applications. Quasi-Rugate design structures have the highest demonstrated Laser Damage Thresholds of any Ion Beam Sputtered films. Visit Website Request Info

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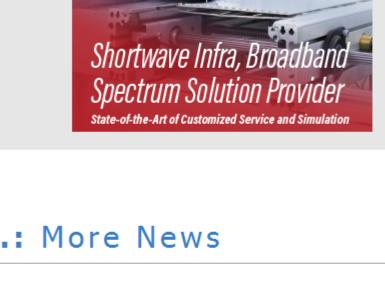


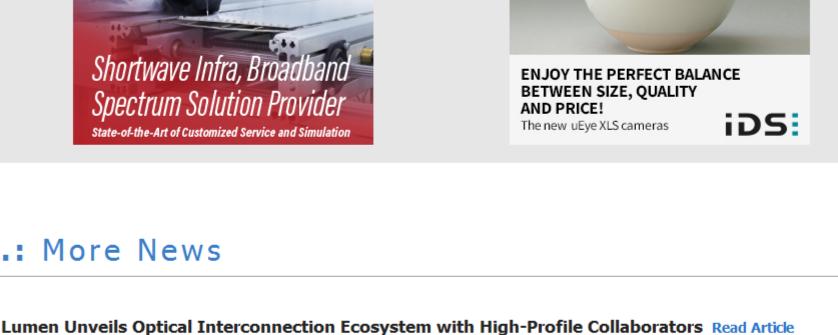
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ranges from 40A to 220A QCW and 18A to 125A CW with maximum compliance voltages from 12 to 35 V. Visit Website Request Info

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Revolutionizing Infrared Detection: Five Key Advantages of InAs and InAsSb-Based

Detectors for Unmatched Performance

Thu, Jun 22, 2023 10:00 AM - 11:00 AM EDT Lukasz Kubiszyn of VIGO Photonics covers many of the key advancements in InAs and InAsSb based detection for mid-wave IR and long-wave IR for applications spanning from environmental

monitoring to spectroscopy. These advancements are creating lower cost options without sacrificing

unique attributes that are opening new applications for detection and analysis technologies around the world. Presented by VIGO Photonics Register Now

the detectivity and sensitivity that MCT detectors have offered for many years. In addition, Kubiszyn highlights some of the

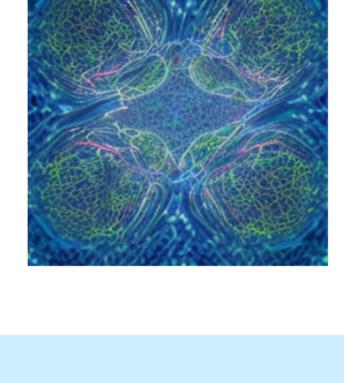
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.: All Things Photonics

The Precise Advanced Technologies and Health Systems for

Underserved Populations initiative, or PATHS-UP, aims to integrate

engineering research and education with technological innovation to transform national prosperity, health, and security. In a panel discussion, host Jake Saltzman is joined by **Samuel Mabbott**, assistant professor in the Texas A&M Department of Biomedical Engineering; **Cyril Soliman**, who earned his Ph.D. under Mabbott in the Texas A&M Biomedical Optics Lab; and **Michael Matthews**, vice president of the spectroscopy division at Wasatch Photonics. The trio served as key players on a portion of PATHS-UP-supported work that involves the development of a surface-enhanced Raman spectroscopy technology that targets the detection of core biomarkers at the point of Listen Now





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our magazines (Photonics Spectra, BioPhotonics, and Vision Spectra). Please submit an informal 100word abstract to editorial@Photonics.com, or use our online submission form.



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