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2020 Prism Award Finalists Showcase Industry Innovations

any known photon source. A hand-held Raman spectrometer with MEMS scanning mirrors. A semiconductor laser for treating glaucoma.

These technologies are among the 27 finalists for the 2020 Prism Awards which recognize groundbreaking technology in the industry. The Prism Awards ceremony and banquet, co-sponsored by SPIE and Photonics Media, will be held during SPIE Photonics West on Feb. 5. Read Article

A light that generates 10x the number of entangled photon pairs than

Experiments

Optical Society (OSA).







Oak Ridge National Laboratory (ORNL) researchers Joseph Lukens,



collaborators from Purdue University and the Technological University of Pereira in Colombia, summarized results from several of their recent academic papers in Optics & Photonics News, a publication of The

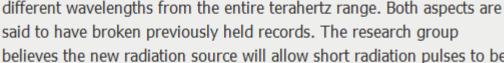
Pavel Lougovski, Brian Williams, and Nicholas Peters, with

Read Article Record-Breaking Terahertz Laser Beam Developed at TU Wien in Vienna

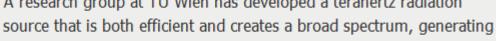


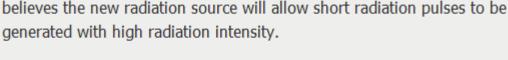
A research group at TU Wien has developed a terahertz radiation



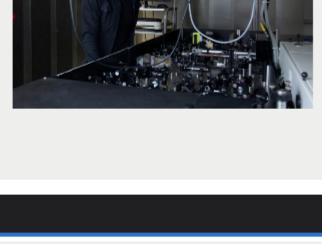








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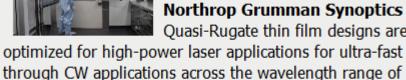
the narrowest bandwidths and squarest filter profiles in the

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Quasi-Rugate thin film designs are

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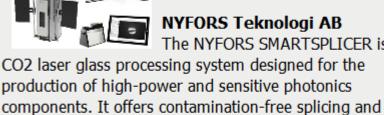
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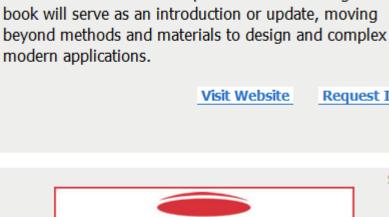
NYFORS Teknologi AB The NYFORS SMARTSPLICER is a CO2 laser glass processing system designed for the production of high-power and sensitive photonics

recoating, cleave quality inspection, proof testing, and analyzing. We also offer custom work cell automation solutions for quality splicing and preparation tasks. Request Info Visit Website Alluxa

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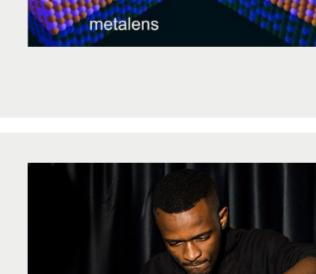
recently published a paper in Optics Letters where they detail the design of a new type of metalens capable of imaging beyond the optical diffraction limit. A metalens described in the article is a thin

composite metal-dielectric film placed on a dielectric substrate; the width is several dozen nanometers. Read Article 3 A m 9 Multidimensional Quantum Communications with Legacy

In a new "twist" on quantum communication using optical fiber,

conventional fiber link that supports only one light pattern.

researchers from the University of Witwatersrand (Wits) and Huazhang University of Science and Technology (HUST) have demonstrated that multiple quantum patterns of twisted light can be transmitted across a



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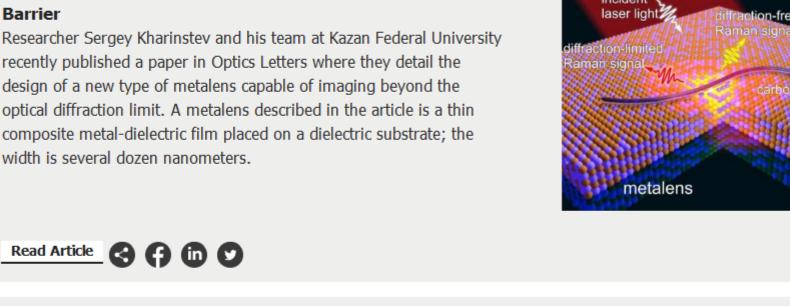
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Industry Events

SPIE Photonics West 2020



Wed, Feb 19, 2020 12:00 PM - 1:00 PM EST This webinar will help you develop a plan for your machine vision system that will ensure reliability, repeatability, standardization, and quality on the factory floor. It will discuss traditional versus deep learning systems, and when to use deep learning techniques. You will learn what to focus on when you have limited time to evaluate a system; how and when to choose a system integrator; how to quantify performance during testing; and how to build flexibility and adaptability into your system so it will serve you well for years to come. Sponsored by Teledyne DALSA, Euresys SA, and Allied Vision Technologies GmbH.



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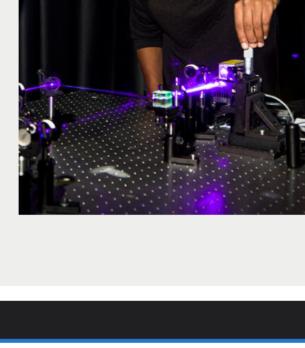
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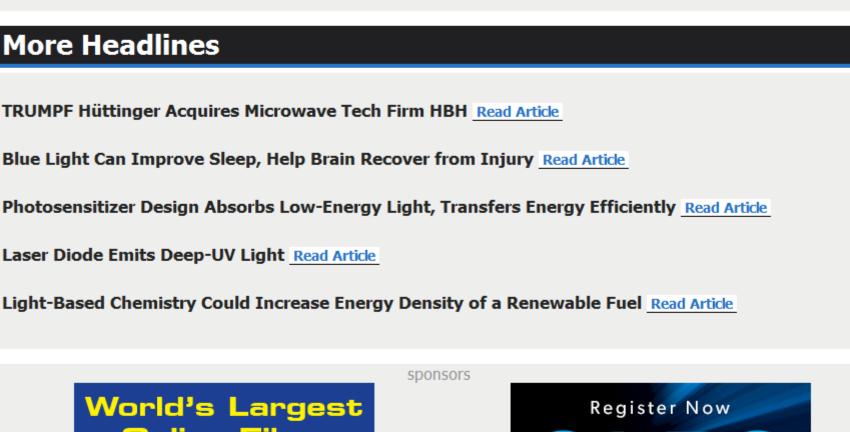
February 4-6, 2020 - The Moscone Center - San Francisco Photonics Media Booth: 658,659 At SPIE Photonics West 2020, the leading event for the photonics and laser communities with more than 20,000 attendees, you will have access to the latest research in biophotonics, laser technologies, and optoelectronics materials and devices. This will be a full week with

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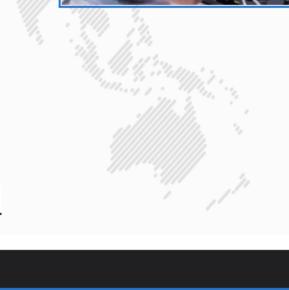
More Info **Webinars** Machine Vision System Design and Integration: Challenges and Trends



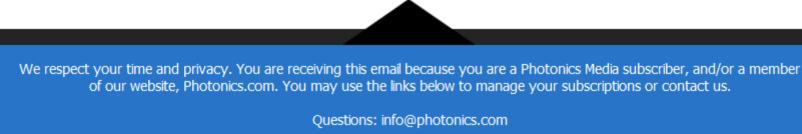


Advance Registration Ends 9 April

10 - 15 MAY 2020 SAN JOSE, CALIFORNIA, USA



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