

This Week in PHOTONICS



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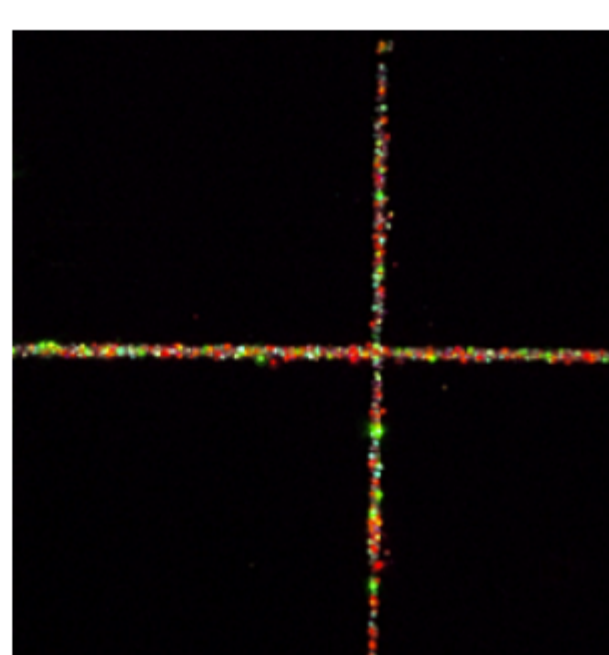
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.: Top Stories

Nanodiamonds Light Up Phantoms for Microscopy Calibration

Researchers at the Beckman Institute for Advanced Science and Technology at the University of Illinois Urbana-Champaign are using microscopic nanodiamonds to calibrate and assess the performance of high-powered microscopes. The work is poised to support a wide range of research and applications, optimizing workflows by saving time in the preparation stages for fluorescence microscopic analysis.

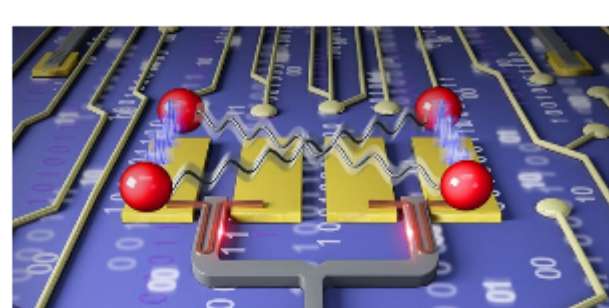
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Silicon Photonic Chip Increases Quantum Security

Researchers from Nanjing University and Sun Yat-sen University developed a quantum communications platform based on a silicon photonic chip with a superconducting nanowire single-photon detector (SNSPD). The chip's performance enabled the team to realize optimal time-bin Bell-state measurement.

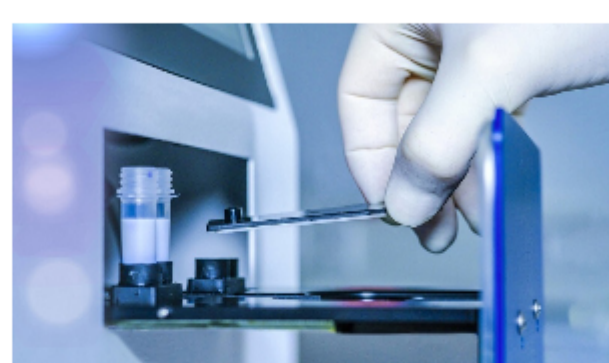
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Optofluidic Device Enables Detection of Single Molecules

Citing increased resistance to antibiotics on the rise globally, researchers from Fraunhofer Institute for Physical Measurement Techniques (Fraunhofer IPM), working alongside those from the Ludwig Maximilian University of Munich, have developed a process for rapidly detecting multidrug-resistant pathogens.

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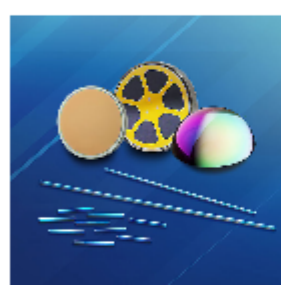
Modular 3D Sensor with GenlCam 3D

AT - Automation Technology GmbH

AT – Automation Technology revolutionized the 3D sensor industry with its modular 3D compact sensor (MCS) which is based on a modular system of sensor, laser, and link modules and recently launched the new cx4090HS 3D sensor module which supplements the MCS series.

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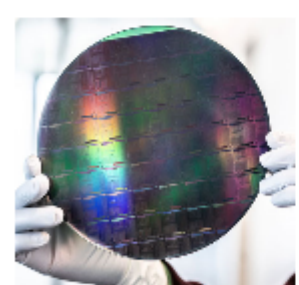
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.: Upcoming Webinars

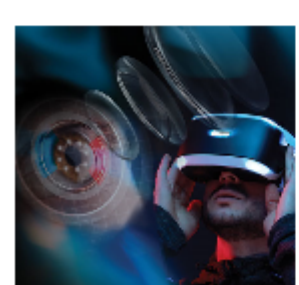


Si/SiN-Integrated Photonics for Lidar, Quantum, and Sensing

Wed, Nov 17, 2021 10:00 AM - 11:00 AM EST

In this webinar, Amin Abbasi, business development manager at imec, presents imec's recent collaborative progress on using integrated photonics for emerging applications such as on-chip lidar, quantum computing, and sensing. The added value of using integrated photonics-based solutions is a higher level of integration capacity, compactness, and scalability. Presented by imec.

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Novel Solutions for XR Optical Testing: Displays, Waveguides, Near-IR, and Beyond

Thu, Nov 18, 2021 1:00 PM - 2:00 PM EST

The visual experiences provided by XR headsets can be impacted by component performance and defects at any stage of optical design and manufacturing, from display to final assembly. Photometric measurement systems have been proven for XR optical testing with unique configurations of imager, lens, and software--offering different benefits to address each inspection need. In this webinar, learn about considerations for choosing the optimal measurement equipment for each production stage to ensure accuracy and high-quality visual experiences. Presented by Radiant Vision Systems.

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