



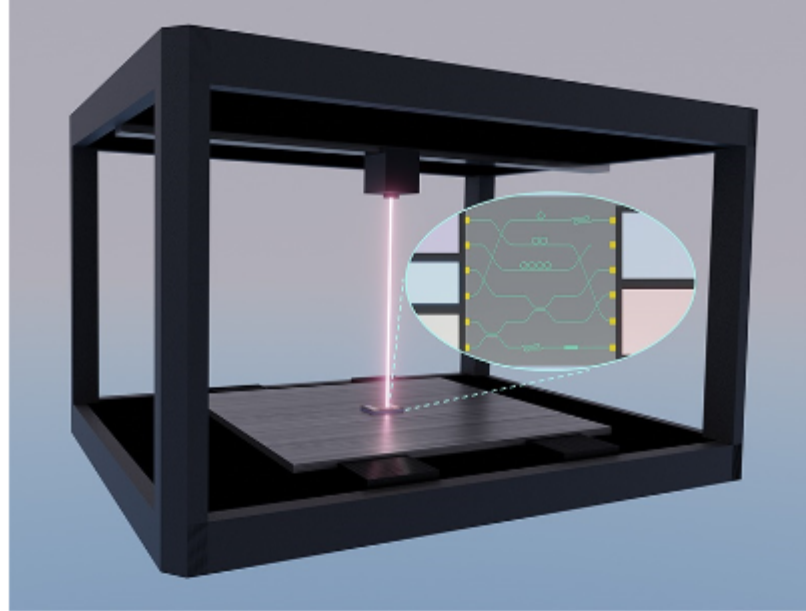
Weekly News



SWIR Imaging System Captures Photoluminescence Lifetime in One Shot

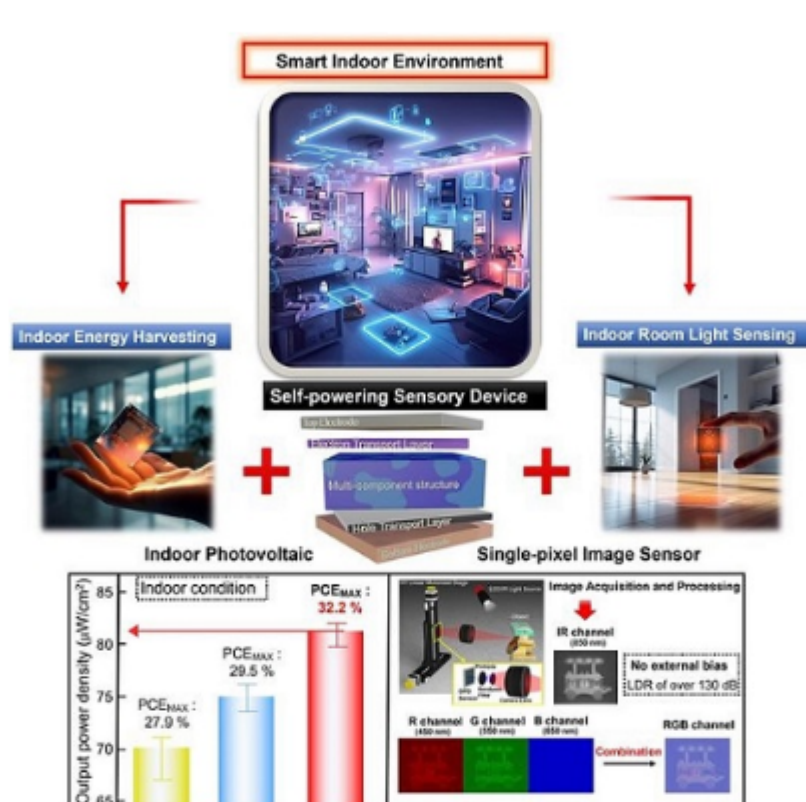
An imaging system developed by researchers from the Institut national de la recherche scientifique captures the photoluminescence lifetimes of rare-earth doped nanoparticles in the micro- to millisecond range. The high-precision shortwave infrared imaging technique paves the way for application in biomedical and information security

where accuracy and dependability are essential. [Read Article](#)



Team Develops Laser Printer for PICs

Researchers led by the University of Washington have developed a method to produce photonic integrated circuits (PICs) almost anywhere. The technique enables PICs to be written, erased, and modified by a laser writer into a thin film of phase-change material, similar to what is used for recordable CDs and DVDs. The process allows PICs to be constructed and reconfigured in a fraction of the time it would take at a nanofabrication lab. [Read Article](#)



Organic Optoelectronics Device Supports IoT in Low-Power Environments

An organic-based optoelectronic device from researchers at the Korea Institute of Science and Technology integrates organic photovoltaic (OPV) and organic photodetector (OPD) functionality in a high-performance, self-powered, multifunctional device that takes advantage of the synergy between OPVs and OPDs. [Read Article](#)

Featured Products & Services



SK-1300 Fused Silica
Ohara Corporation
 Ideal for semiconductor equipment, filters, and high energy laser applications. SK-1300 Fused Silica advantages include extremely low bulk absorption and fluorescence, no laser damage at 1070 nm, high transmission from UV through near IR, high homogeneity, and low stress birefringence.

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ZIVA Light Engine for Yokogawa CSU
Yokogawa CSU

Lumencor Inc.

Yokogawa's CSU is

extensively used for 3D confocal imaging of live cells, tissues, and microorganisms. Lumencor's ZIVA Light Engine offers seven lasers in support of the CSU-W1 at a price well below that of the scanner. A precision-engineered coupler yields intense, uniform light at the sample plane from the compact, bench-top illuminator.

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- [Lithuania Unveils Government-Backed Innovation Hub in Silicon Valley](#)
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Latest Webinars

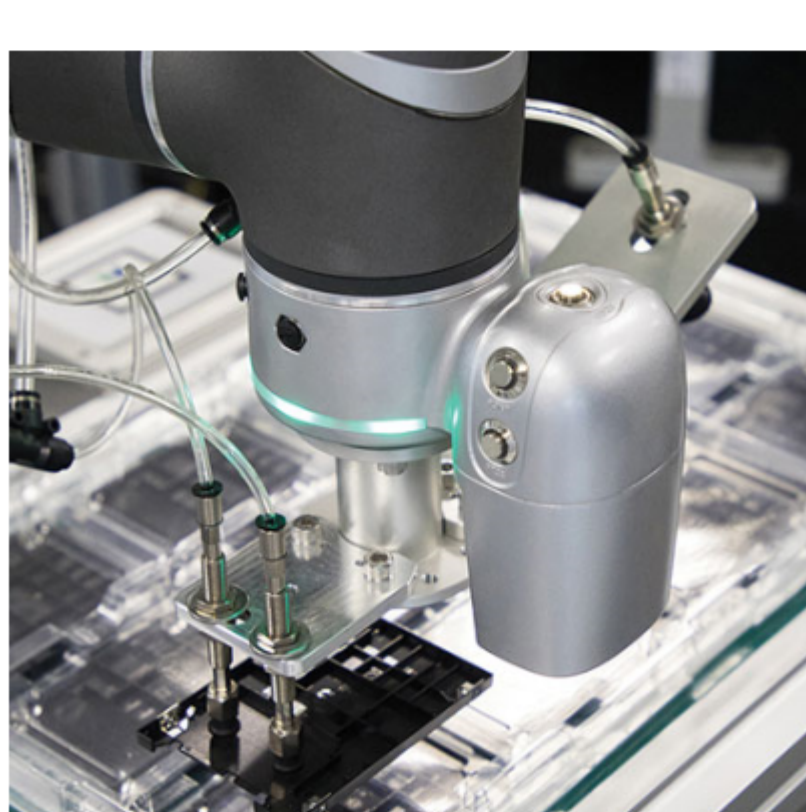


Quantum Efficiency Measurements: Fundamentals for Solar Cell Research, Part 2

Wed, Feb 21, 2024 1:00 PM - 2:00 PM EST
 In part two of this series, representatives from MKS Newport present an in-depth discussion on equipment and test configurations used for cutting-edge cell development such as perovskites and multi-junction cells. These configuration topics include device interfacing, light generation techniques, and signal detection. They discuss specific requirements that are needed to take these measurements as well as the key challenges researchers run into during experimentation. In addition to quantum efficiency measurements, they also review I-V curve generation and analysis for solar module level parameter testing. Join MKS Newport experts to learn and dig into the world of solar cell design measurements and how to set up a lab

for success. Presented by MKS Newport.

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Enhancing Robot Performance with Industrial Vision

Wed, Feb 28, 2024 1:00 PM - 2:00 PM EST
 In this webinar, Mark Noschang and Renato Osaki from Omron delve into the crucial role of industrial vision in revolutionizing robot performance across various applications. From fixed industrial robots to collaborative robots and autonomous mobile robots, the integration of vision technology has become increasingly vital for enhancing navigation capabilities, product manipulation, and quality verification in manufacturing environments. They explore how vision is used in various robot types, showcasing real-world examples and highlighting the benefits it brings. Discover how industrial vision is shaping the future of robotics and unlocking new possibilities for flexibility, traceability, and adaptability in automation.

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