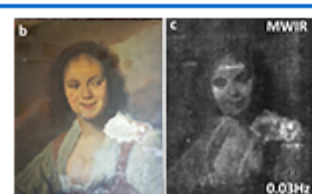


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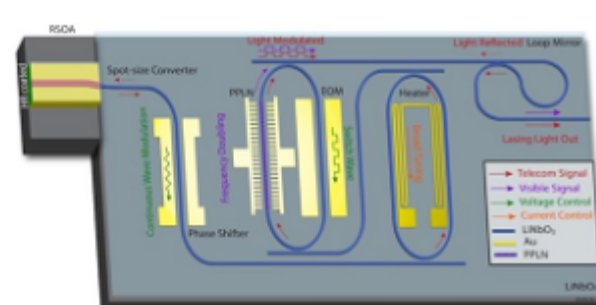
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Multicolor Integrated Laser Expands Integrated Photonics Landscape

Integrated semiconductor lasers have enabled many advancements over the last few decades. However, integrated lasers continue to lack key functions needed for evolving applications like lidar and AR/VR. Using a type of integrated semiconductor laser based on the Pockels electro-optic effect, a University of Rochester team, with researchers at three institutions, believes it has developed a device with potential to reshape the integrated photonics landscape.

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Lidrotec's Wafer-Dicing Laser Tech Earns \$1M Top Prize at Luminate Finals

Lidrotec, a company that develops wafer-dicing laser technology for the semiconductor industry, took home \$1 million in follow-on funding and Company of the Year honors as the winner of Luminate's 5th cohort. The winning company, as well as the names of the additional funding recipients, were revealed at Optica's Frontiers in Optics + Laser Science conference in Rochester, N.Y.

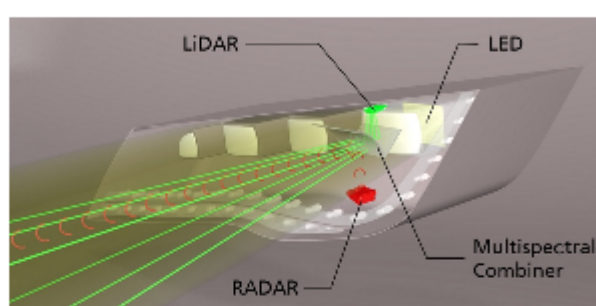
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Space-Saving Sensors Ease Automotive Design Woes

Since self-driving vehicles require a sufficient quantity of sensors to guide them safely through all traffic situations — and the sensors need enough space to work properly — researchers at Fraunhofer-Gesellschaft are developing a way to install multiple automotive sensors in a limited space. The solution combines optical light, radar, and lidar in the vehicle's headlights, and could be a perfect fit for the systems that guide self-driving cars.

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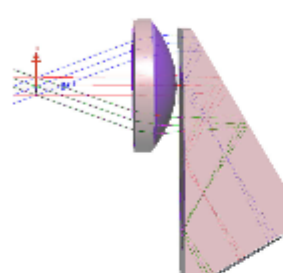
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Upcoming Webinars



Harnessing Photons for Bond-Selective Imaging, Neuromodulation, and the Killing of Superbugs

Tue, Nov 1, 2022 10:00 AM - 11:00 AM EDT

Chemical microscopy utilizing fingerprint vibrational spectroscopic signals opens a new window to visualize the orchestra of molecules and biological structures inside living systems. Dr. Ji-Xin Cheng, professor at Boston University, and his research team have recently started to harness photons to modulate the behavior of cells, including the photoacoustic modulation of neurons at ultrahigh spatial precision and photolysis of intrinsic chromophores to eradicate drug-resistant bacteria.

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Managing Laser Degradation in Industrial Applications

Wed, Nov 2, 2022 1:00 PM - 2:00 PM EDT

Lasers are made of physical matter. Due to this, the natural degradation of their materials can cause variability in performance. Aging optics can often cause slow changes in laser behavior and, when left unchecked, those changes can lead to loss of process efficiency. An unclean process environment can quickly change a laser's behavior through thermal lensing which is caused by debris collected on laser optics John McCauley of MKS Ophir discusses how these variabilities are managed, what aspects of a laser's performance should be analyzed, and what tools are available to perform this analysis. Presented by MKS Ophir.

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