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Top Stories

Army Details Successful Prototype Demonstration of First Laser Weapon

The U.S. Army has completed a directed-energy maneuver short-range air defense (DE M-SHORAD) "combat shoot-off" — its first development and demonstration of a high-power laser weapon.

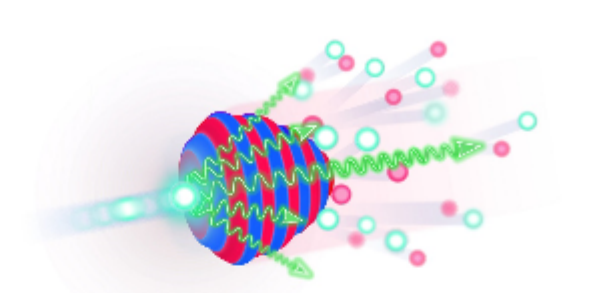
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Full-Power 3-Petawatt ZEUS Laser Awarded \$18.5M

The 3-petawatt (PW) ZEUS laser at the University of Michigan has been awarded \$18.5 million by the NSF to establish it as a federally funded international user facility. ZEUS is expected to begin its first experiments in 2022. ZEUS, which stands for zetawatt-equivalent ultrashort-pulse laser system, will be the most powerful laser in the U.S.

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BluGlass Demonstrates RPCVD Tunnel Junction Laser Diodes

Semiconductor manufacturing technology and devices manufacturer BluGlass has successfully demonstrated tunnel junction laser diodes, using its proprietary remote plasma chemical vapor deposition (RPCVD) technology.

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Featured Products



[Optical Filters for Point of Care](#)

Delta Optical Thin Film A/S

Point of Care (PoC)

instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes. Many tests require absorbance or fluorescence detection methods, which all demand optical filters. The optical filter is one of the most important components of a PoC instrument.

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At last, a reference work has been compiled that offers in one place a broad survey of technologies, applications and markets for optical biomedical

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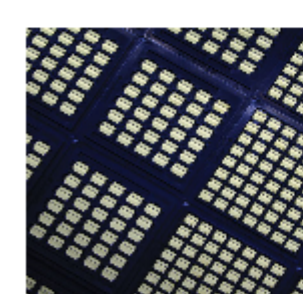
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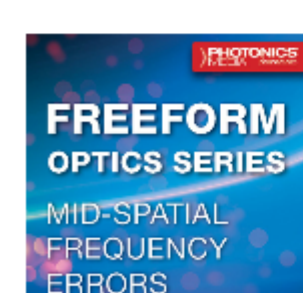


AuSn Thin-Film Technology and AuSn Pre-deposited Substrates for Optoelectronics

Wed, Aug 25, 2021 10:00 AM - 11:00 AM EDT

AuSn thin film is a critical technology to enable an optoelectronic device to ensure durability, anti-oxidation ability and reliability compared with Indium, SnPb, SnBi, and others. In this webinar, Allen Liu of Focuslight Technologies Inc. explains the design, key processes, and application data of high-power laser diode devices. Presented by FocusLight Technologies Inc.

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Freeform Optics for Imaging: Mid-Spatial Frequency Errors

Thu, Aug 26, 2021 1:00 PM - 2:00 PM EDT

Residual mid-spatial frequency (MSF) surface errors are common byproducts of the computer-controlled sub-aperture manufacturing techniques needed for fabrication of freeform optics. In this presentation, Thomas Suleski, Ph.D., provides an overview of MSF surface error signatures, specification methods, and performance impacts. Part 3 of the 2021 Freeform Optics Series.

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