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Intel Unveils Eight-Wavelength DFB Laser Array

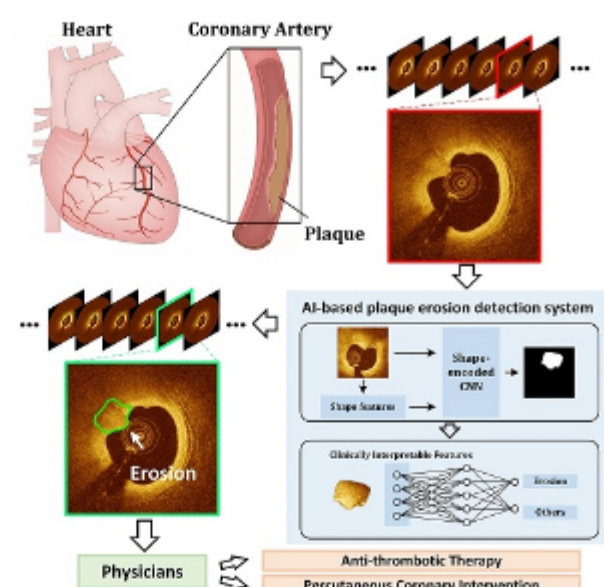
Intel reported an eight-wavelength distributed feedback laser array fully integrated on a silicon wafer. The device delivers output power uniformity of +/- 0.25 dB and wavelength spacing uniformity of +/- 6.5%, exceeding industry specifications. The advancement will enable production of an optical source with the necessary performance for future high-volume applications in co-packaged optics and optical compute interconnect for network-intensive workloads.



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AI, OCT Operate in Tandem to Detect Plaque Erosion in the Heart

Researchers from the University of Electronic Science and Technology of China have developed an AI method that can automatically detect plaque erosion in the heart's arteries using optical coherence tomography (OCT). The approach could help physicians develop individualized treatment strategies for optimal management of patients with acute coronary syndrome.



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LZH and TU Berlin Bring 3D Printing to the Moon

Scientists from the Laser Zentrum Hannover eV (LZH) and the Technische Universität Berlin (TU Berlin) are planning a flight to the moon to melt lunar dust with laser radiation. Researchers, on a project called MOONRISE, are looking to AI-aided lasing for the 3D printing of landing sites, roads, or buildings, using lunar dust.



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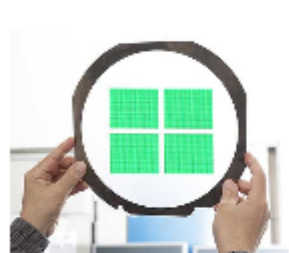


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ams OSRAM believes that LED and optical sensor technology can provide an essential building block to enable a healthier life. Our team works on more efficient LEDs, more sensitive photodiodes, and high performance AFEs (Analog Front End) to improve the signal quality to enable the user to detect biosignals like PPG, PTT, blood pressure, SpO2, and more. The devices should also consume less power so that wearables can measure more frequently...

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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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Upcoming Webinars

Wavelength-Selective Optical Filters: Providing More Signal and Less Background to PCR Instruments

Thu, Jul 7, 2022 1:00 PM - 2:00 PM EDT

Engineers creating polymerase chain reaction (PCR) instrumentation face unique challenges in both qualitative detection of nucleic acid sequences, using end-point analysis and quantitative detection of nucleic acid sequences, using real-time analysis. Quantitative PCR (qPCR) instruments that operate in real time require a favorable signal-to-noise ratio, combined with high sensitivity. Jason Palidwar of Iridian Spectral Technologies shares the role photonics and optical filters play in qPCR instruments along with the challenges presented by their specification, design, and manufacture.

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