

This Week in PHOTONICS



LightMachinery
Excellence in Lasers and Optics



Hyperfine Spectrometer
A sub-picometer resolution spectrometer in a compact package.

.: Top Stories

First Marine Corps Aircraft to Undergo Laser Peening Is Ready for Service

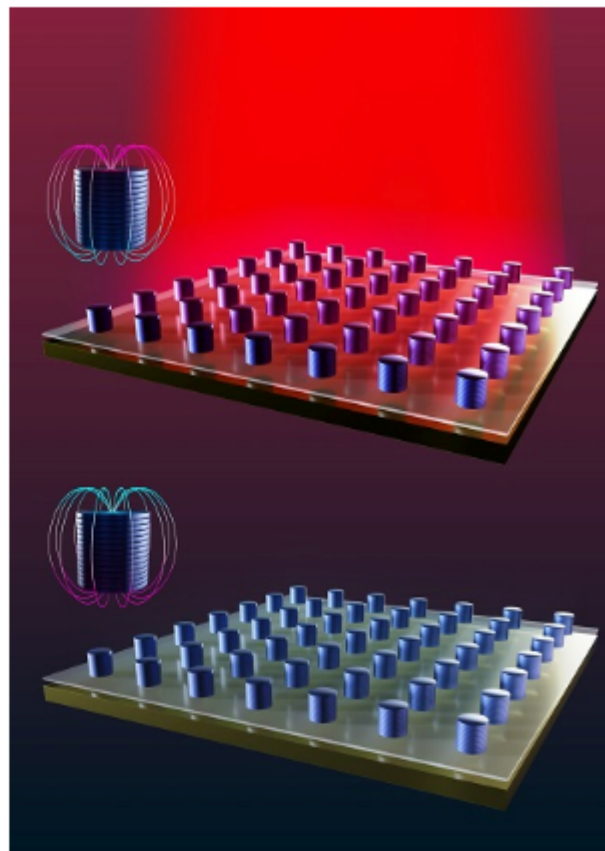
The U.S. Navy aviation repair and maintenance facility Fleet Readiness Center East (FRCE) in Havelock, N.C., has completed the successful verification of the laser shock peening (LSP) process, following the induction of the first F-35B Lightning II aircraft to undergo the peening procedure in June 2020.



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Magnetically Controlled Nanolasers Safeguard Optical Signals

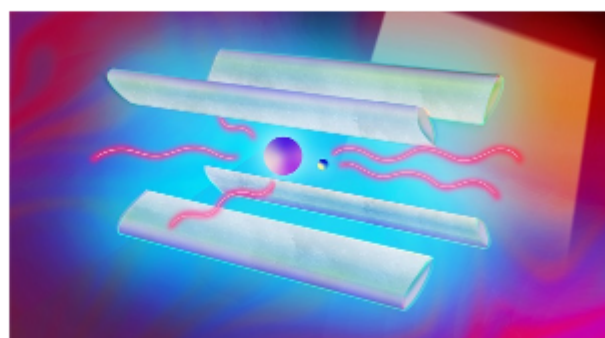
A lasing control mechanism, introduced by a research team at Aalto University in Finland, enables users to control plasmonic nanolasers remotely, using a magnetic field. Until now, the only way to switch plasmonic nanolasers on and off has been through direct manipulation.



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Ultracold Ions Tune Atomic Clockwork

Researchers at the QUEST Institute at the Physikalisch-Technische Bundesanstalt (PTB) have cooled charged ions down to 200 μ K. The team combined methods — its established laser cooling of coupled ions method, and those from quantum computing — to achieve the result.



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.: Featured Products



UV-C Disinfection Validation

Labsphere Inc.

Labsphere's SMARTSens UV-C Sensor Network provides confidence of UVGI disinfection from multiple UV-C sources and operating environments. Easily monitor real-time and historical irradiance levels and dose performance from UV-C disinfection systems using the SMARTSens software platform and dashboard development APIs.

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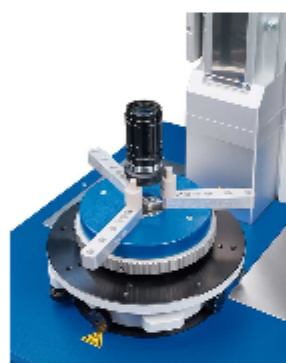
1938-R/2938-R Optical Power Meter

MKS/Newport

The all new 1938-R and 2938-R optical power and energy meters are the next generation models of the popular 1936-R and 2936-R benchtop meters. They inherited most of the advanced functions available in x936-R series, on top of the up-to-date CPU, touch screen, Android OS, and high bandwidth electronics design.

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Fast Measurement of Complex Lenses

TRIOPTICS GmbH

TRIOPTICS launches the next generation of centration measurement systems with two measurement heads: the

OptiCentric® 101 Dual. It allows the measurement and alignment of complex lens assemblies with significantly reduced time requirements. With the new OptiCentric® 101 series, the stability of the measurement head...

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Acousto-Optic Modulator / Frequency Shifter

CSRayzer Optical Technology

CSRayzer provides many kinds of acousto-optic modulators, frequency shifters, which could be fiber coupled or in free space type. The AOMs could be widely used in fiber lasers, fiber sensing systems, and quantum communication, with applications of pulse picker, optical switch, frequency shifting, amplitude modulation.

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.: More News

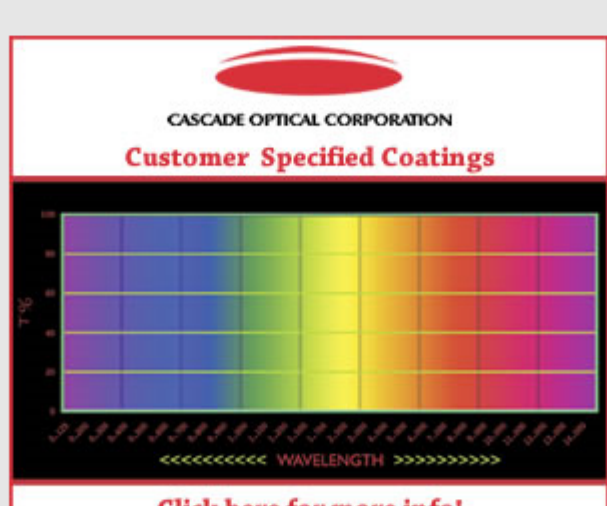
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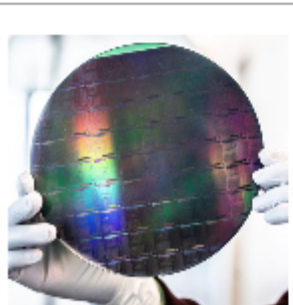
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.: Upcoming Webinars



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

Wed, Jan 19, 2022 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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