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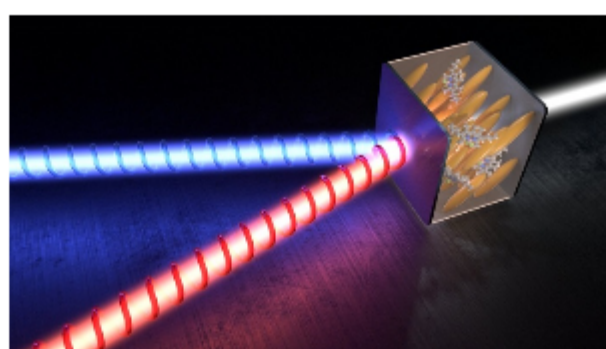
LASERS NEWSLETTER

The latest news, features, and product developments in lasers, laser systems, laser accessories, and light sources – brought to you by Photonics Media. Manage your Photonics Media membership at [Photonics.com/subscribe](https://www.photonics.com/subscribe).



Tunable Microlaser Achieves Optical Gain Through Persistent Spin Helix Lasing

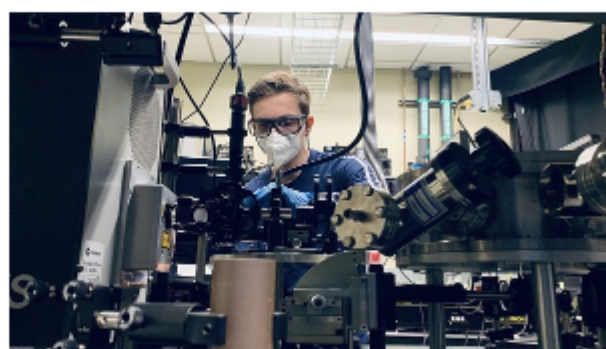
A microlaser that is tunable in the range of 40 nm has been developed by researchers at the University of Warsaw, the Military University of Technology in Warsaw, and the University of Southampton. The proposed platform for microlasing could be used in quantum communications, in which information is encoded through light polarization.



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Deep-UV Semiconductor Laser Enables Diverse Applications

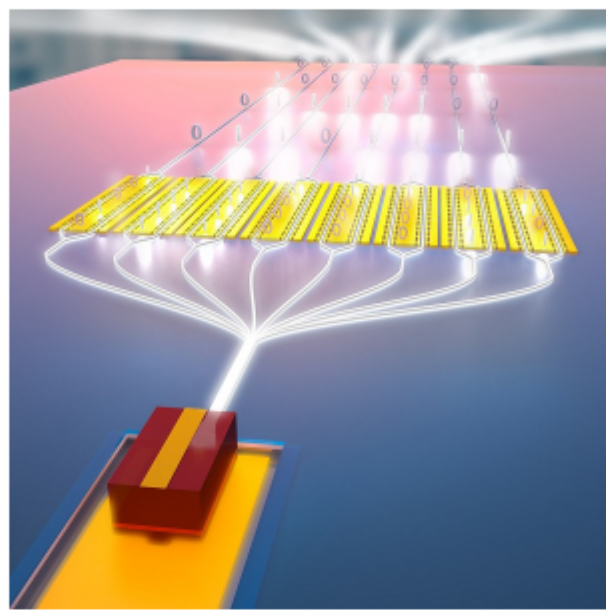
Researchers at Cornell University demonstrated an optically pumped, aluminum gallium nitride (AlGaIn)-based multimode laser that emits deep-ultraviolet (DUV) light at low modal linewidths and at wavelengths under 300 nm. DUV emitters have use in pathogen detection and sterilization, water purification, gas sensing, photolithography, and quantum computing and metrology.



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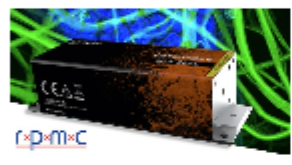
Integrated Laser on Lithium Niobate Chip Supports Advanced Telecom

Researchers at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) developed what they claim to be the first fully integrated high-power laser on a lithium niobate chip. The technology paves the way for high-powered telecommunications systems, fully integrated spectrometers, optical remote sensing, and efficient frequency conversion for quantum networks, among other applications.



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Featured Products



[New Wavelengths: 473 nm, 607 nm, 698 nm](#)

RPMC Lasers Inc.

Oxixus' LaserBoxx family of DPSS laser/laser diode modules can offer some new wavelengths not readily available on the market: 473 nm (SLM) @ 50 mW, 607 nm @ 200 mW, and 698 nm @ 100 mW. You can use these new modules in the most compact and flexible all-in-one multicolor Wavelength Combiner with up to 7 wavelengths.

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More News

Laser Speckle Method Captures Blood Flow in Microvasculature

Researchers at the National University of Singapore developed a confocal laser speckle autocorrelation method to image dynamic flow in microvasculature. The technique is label-free and enables real-time and quantitative imaging of blood flow on the microscopic level.

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Ultra-intense Laser Achieves Efficient Direct Ion Acceleration

Osaka University researchers and their colleagues have reported direct energetic ion acceleration by irradiating what they claim to be the world's thinnest and strongest graphene target with the ultra-intense J-KAREN laser at Kansai Photon Science Institute at QST in Japan. The research supports the potential to develop compact and efficient laser-driven ion accelerators for cancer therapy, laser nuclear fusion, and more.

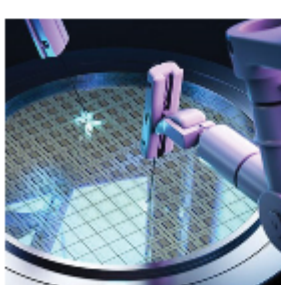
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Polarization-Maintaining Fiber Enables Near-Chirp-Free Pulses

A team at Northwestern Polytechnical University (China) has demonstrated near-chirp-free solitons in normal-dispersion, hybrid-structure fiber lasers that contain a few meters of polarization-maintaining fiber. The solitons typically have a bandwidth and duration of 0.74 nm and 1.95 ps, respectively.

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Upcoming Webinars



Laser Measurement Solutions for Materials Microprocessing Applications

Wed, Jun 15, 2022 11:00 AM - 12:00 PM EDT

Mark Slutzki, a product manager at Ophir, shares innovative solutions for the challenges that accompany materials microprocessing applications. Those who use lasers in these applications, such as drilling via holes in PCBs, organic LED display lift-off, and cutting smartphone cover glass, are faced with many challenges. While the combination of laser parameters enables new and innovative processes, they can also cause unexpected damage to the measurement tools used to keep the process stable. These parameters include ultra-short pulse duration, high repetition rates, short wavelengths, and many others. Sponsored by Ophir and LaserPoint srl.

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