Lasers Tech Pulse

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Electro-Optical Modulators Empower Lasers for Science Applications

Scientific fields such as atomic physics, chemistry, biology and even astronomy are inspired by the use of lasers and ultimately will benefit from the addition of electro-optical modulators.

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Perovskite Nanowires Yield Efficient, Tunable Lasers

With low lasing thresholds and Q factors around 3600, these single-crystal lead halide perovskite nanowires could be suitable for miniature optoelectronic devices.

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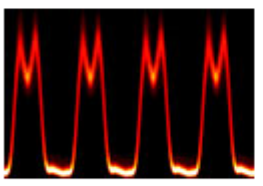
Combining Lasers Leads to More Flexible Pulse Control



Every laser has its limitations in terms of repetition rate and pulse characteristics, but bringing five lasers together in one system could make those limitations vanish.

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AOM Reaches Unprecedented Speeds

A new acousto-optic modulator can steer laser beams at unprecedented speeds, potentially enabling finer light control for microscopy and other applications.

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MIR Laser Creates High-Flux X-Ray Pulses

A team led by the Vienna University of Technology developed the new hard x-ray plasma source, which is driven by intense, sub-100-fs pulses at 3.9-µm wavelengths. The longer the wavelength, the researchers said, the higher x-ray flux, which could ultimately provide more accurate measurements and imaging in medicine and materials science.

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