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Devices To enhance the effectiveness of the post-market surveillance of medical

Ultrashort Laser Pulses Mark Lasting Codes on Medical

devices, both the U.S. and the European Union have adopted unique device identification regulations: the FDA Amendments Act of 2007 and the European Commission Legislative Act of 2017, respectively. In compliance with these standards, each device may be labeled with human-readable interpretation and automatic identification, as well as with data capture identifiers (only the last one being mandatory) unless otherwise specified. Ultrashort-pulse lasers have been used to achieve these specifications on the manufacturing floor, and the resulting markings have survived industry tests aimed at altering or removing them.

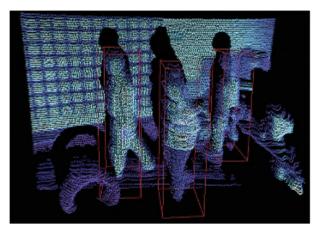


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Lidar and Data Fusion Increase AI Performance

Imaging lidar sensors are one of the primary components in systems used for perception tasks in autonomous vehicles. The 3D data generated by lidar while a vehicle is in motion is considered useful because such data is the result of measuring real-time physical occurrences. These include events such as the time delay between two laser pulses (in the case of the pulsed time-of-flight technique) or the Doppler shift of the returned signal (in the frequency-modulated continuous-wave approach).



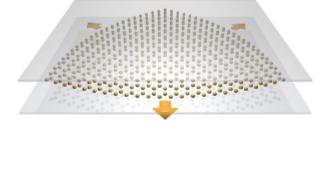


Photons Researchers at the University of Exeter have developed a way to

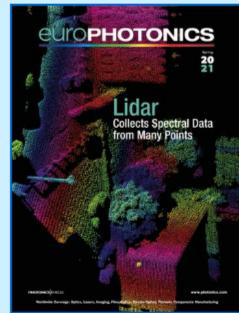
Synthetic Magnetic Field Uses Metasurfaces to Manipulate

manipulate light with a "synthetic" Lorentz force — which is responsible in nature for a number of phenomena such as the aurora borealis. The technique allows the researchers to create tunable artificial magnetic fields, enabling photons to mimic the dynamics of charged particles in real magnetic fields. Read Article





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Micro Injection Molding

Featured Products

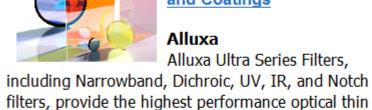


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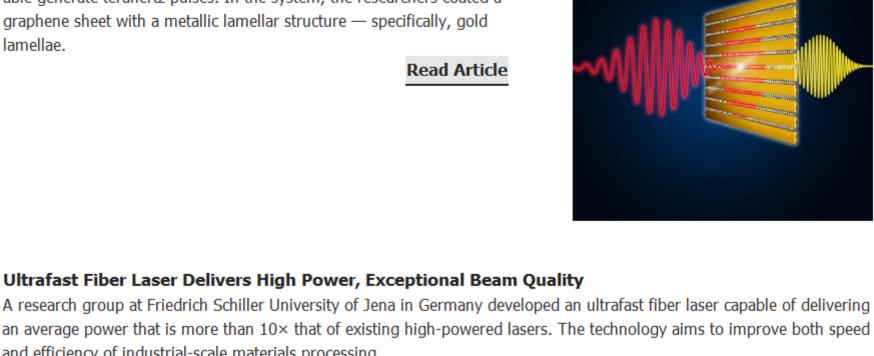
A German-Spanish research team has developed a graphene-based approach for increasing the efficiency with which the scientists were able generate terahertz pulses. In the system, the researchers coated a

lamellae.

Scientists Spin Graphene and Gold into Terahertz Waves

graphene sheet with a metallic lamellar structure — specifically, gold

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and efficiency of industrial-scale materials processing. Read Article Potential of Periodic Array System Supports Nanophotonics Applications

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containing nanoparticles of different sizes — as opposed to more conventional arrays that contain nanoparticles of a

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singular, uniform size — to generate coherent light of desired colors.

EuroPhotonics. Please submit an informal 100-word abstract to Senior Editor Doug Farmer at Doug.Farmer@photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.



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