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The HyperFine Spectrometer, Brillouin spectroscopy.

Photonic-Phononic Waveguides Used to Create Brillouin Laser

Top Stories

need for silicon lasers that can overcome obstacles associated with silicon's indirect bandgap when powering photonic integrated circuits.

A laser that uses sound waves to amplify light could help address the

The laser design corrals amplified light within a racetrack shape to trap the light in a circular motion. Read Article 3 A B D

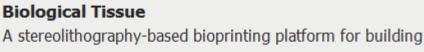
biomaterials from multiple materials could help advance on-demand printing of artificial tissues for regenerative medicine. The platform



Stereolithographic Bioprinting Device Can Create



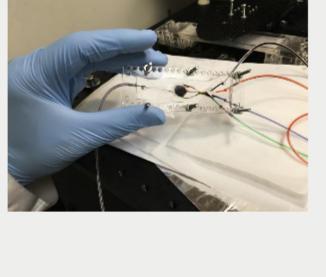




uses a specially adapted 3D printer that has a custom-built microfluidic chip with multiple inlets. Each inlet prints a different material.

Study Shows How Quantum Magnets Mimic Light Several years ago, researchers predicted a characteristic signature that could signal the presence of emergent light inside a quantum spin ice.

The researchers report that they have now observed this signature in a



New Vision App-based IDS NXT

IDS Imaging Development

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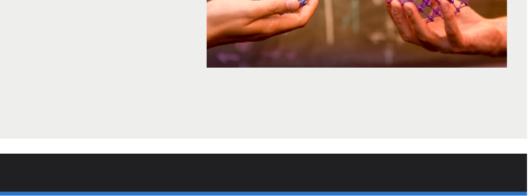
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material called praseodymium hafnate.







Vegas Model

IDS has expanded its product range of vision app-based

manufacturer IDS has also introduced a new firmware and

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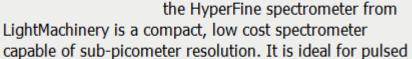
industrial cameras. A color sensor model of IDS NXT

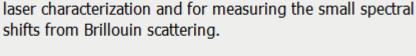
vegas has joined the product family. German camera

a new cockpit to the market, which offer additional

features and simplify the handling even further.







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New Approach Contains Light, Protects It from Defects

imperfections in the material that confines it. The new approach is

Researchers have found a way to confine light so that it is insensitive to

based on "topological protection," a concept used extensively in solid-

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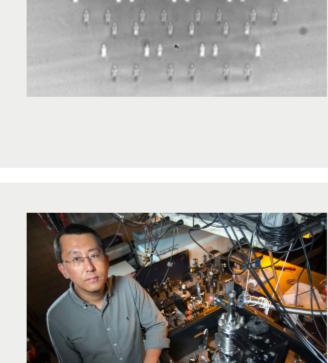
state electronic physics. It could help lower the cost while improving the speed of photonic devices.

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Terahertz Frequency Pulses Uncover Hidden State of

Researchers have used ultrafast photonics to visualize electrons interacting as a hidden state of matter in a superconductive alloy.

When fully understood and tuned, this state of matter could be used for faster, heat-free quantum computing, information storage, and

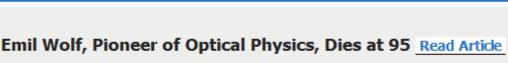


communication.

Matter



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Optics and Astronomy

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objects at next-generation extremely large optical telescopes like the Thirty Meter Telescope (TMT). The design and fabrication of novel astronomical instrumentation will be covered from both a scientific and an engineering standpoint. Register Now PHOTONICS buyers' guide® • EXHIBITOR SPOTLIGHT

spectroscopy are pushing the technical and scientific envelope. The speaker will discuss how these optical tools can be used to make extremely sensitive and high fidelity measurements of astronomical

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