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Secrets

Beneficial Wrinkle

Quantum Cloud Researchers from Leibniz University Hannover, the University of

On-Chip Quantum Light Source Brings Scalability to

Twente, and photonic quantum computing company QuiX Quantum have presented an entangled quantum light source fully integrated on a chip. According to team member Michael Kues, who is head of the Institute of Photonics and a board member of the Cluster of Excellence PhoenixD at Leibniz University Hannover, the breakthrough enabled the researchers to shrink the source size by a factor of more than 1000. Read Article

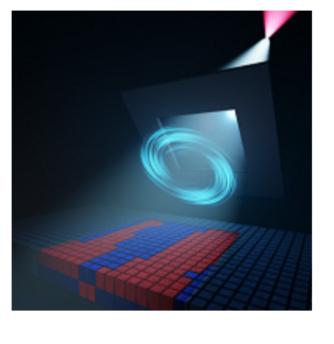


Dichroism Method Adapted for Lab Use Unlocks Materials'

dichroism (XMCD), a technique that can be used to measure the spin and charge dynamics in multi-elemental magnetic materials, in a laser laboratory setting and performed experiments at the absorption L

Researchers at the Max Born Institute used x-ray magnetic circular

edges of iron at a photon energy of around 700 eV. Until now, use of XMCD in the soft x-ray range has been limited to synchrotron-radiation sources and free-electron lasers. The researchers believe that their approach could be adapted to other transition metal and rare-earth absorption edges. Read Article



photoacoustic signals than through conventional photoacoustic imaging techniques. The researchers demonstrated a near-infrared,

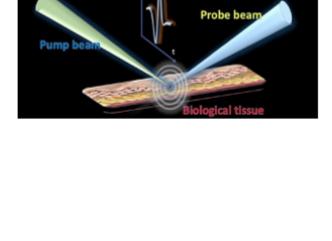
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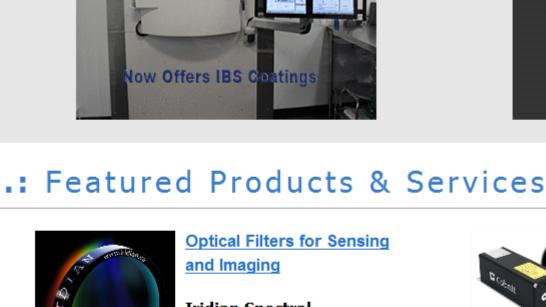
Remote Sensing Gives Photoacoustic Microscopy a

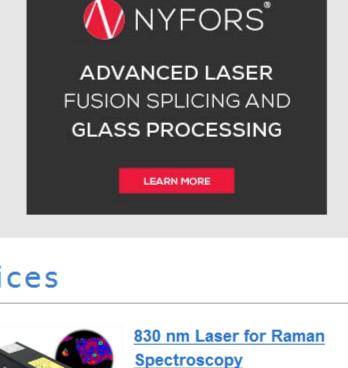
Researchers at the University of Hong Kong showed that biological

tissue can be imaged with greater sensitivity through remote sensing of

photoacoustic remote sensing microscopy technique for noncontact imaging of lipids. The technique enabled broad detection bandwidth, deep penetration depth, and a high signal-to-noise ratio for the imaging of biological samples, in addition to enabling noncontact implementation. Read Article

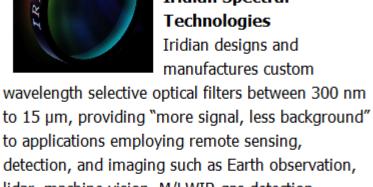






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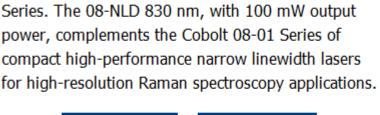
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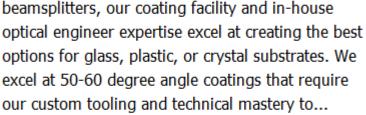
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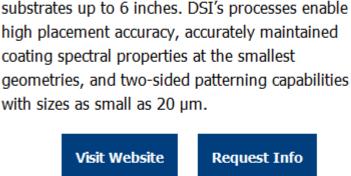
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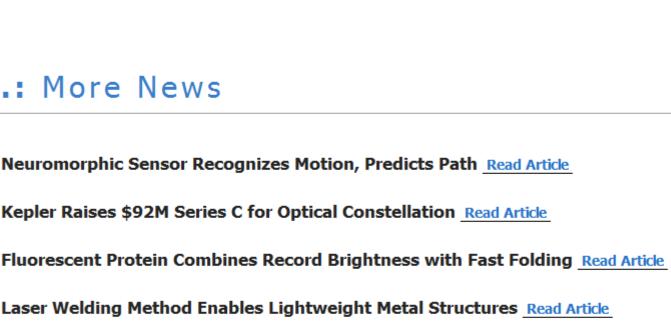


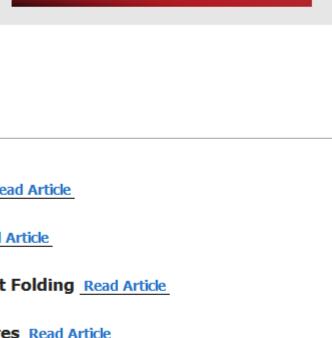
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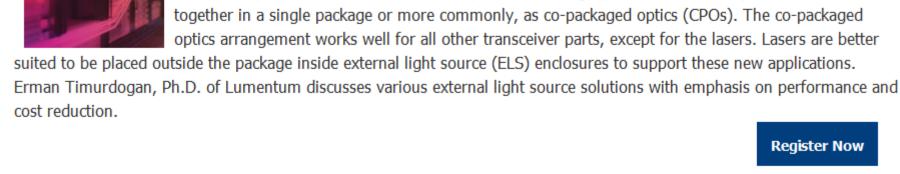
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The networking and computing application landscape is evolving to be cost effective, bandwidth dense, and power efficient. These new requirements bring optics and electronic processors closer together in a single package or more commonly, as co-packaged optics (CPOs). The co-packaged optics arrangement works well for all other transceiver parts, except for the lasers. Lasers are better

Photonics discusses the company's scalable holographic chip technology. Company founder and chief product officer **Theodore** Marescaux and CEO Mike Noonen outline Swave's diffractive photonics technology and inform on the company's future plans

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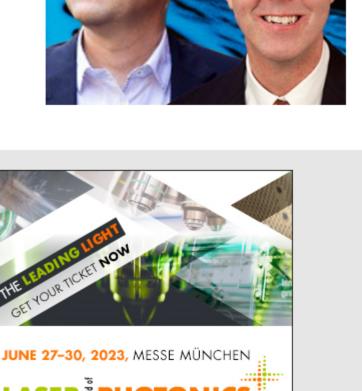
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following its first-place finish in the 2023 SPIE Startup Challenge at

The brain trust of holographic extended reality startup Swave





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