This Week In PHOTONICS MEDIA











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Team Demonstrates Three-Photon Bound States Scientists have observed traveling three-photon bound states in a

use of photons in quantum computing. The researchers further found that the bound photons acquired a fraction of an electron's mass. The

newly weighed-down photons traveled about 100,000 times slower than normal, noninteracting photons. 3 A B D Read Article

could make it possible to transfer quantum information between a spin and a photon, allowing quantum bits (qubits) to be connected across a

chip. The process could potentially be scaled up to connect large

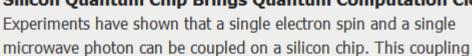
quantum nonlinear medium, a phenomenon that could help further the



Silicon Quantum Chip Brings Quantum Computation Closer

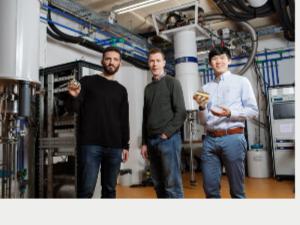






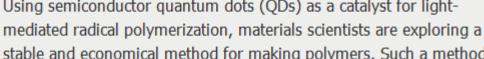
numbers of qubits.

Read Article **Quantum Dots Catalyze Polymer Creation** Using semiconductor quantum dots (QDs) as a catalyst for light-



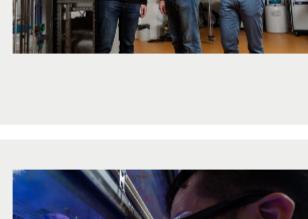
stable and economical method for making polymers. Such a method could be used in place of molecular catalysts or expensive transition

metals.





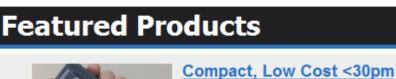


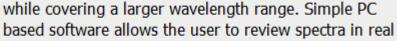


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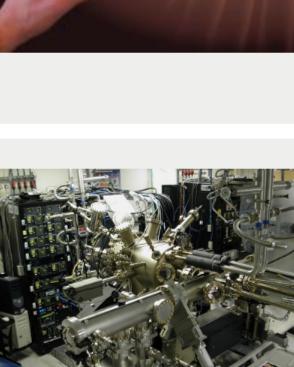
Spectroscopy Explores Photoinduced Reactions in

activated by light. Completely inactive and nontoxic in the dark, the treatment can be targeted to cancerous areas and is triggered only when directed light hits it.

Army Research Lab, Stony Brook Develop Nighttime

The U.S. Army Research Laboratory (ARL) and New York's Stony

Brook University have developed a new synthesis process for low-cost fabrication of a material previously discounted in literature for highsensitivity IR cameras, opening new possibilities for future military

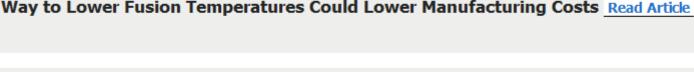


Imaging Material

nighttime operations.







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components that have made machine vision easier to implement in recent years. Sponsored by Smart Vision Lights and Euresys S.A. and Chroma Technology. Register Now sponsors

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