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Scientists from the U.S. Department of Energy's (DOE) Argonne National Laboratory and the University of Chicago (UChicago) have

Quantum Loop Provides Testbed for Quantum

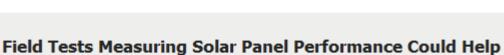
launched a quantum loop, consisting of two connected, 26-mile fiber optic cables that run between Argonne and the Illinois tollway near Bolingbrook, Ill., and back. At 52 miles, it is one of the longest ground-based quantum communication channels in the country, the team said. **3700** Read Article



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Chemical Energy Conversion (MPI-CEC), key parameters in solar panel performance were measured to gather data that can be used for choosing the most appropriate panel option for local conditions in

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terms of long-term performance. Five inorganic photovoltaic (PV) technologies representative of current options on the market were installed and measured. Read Article



Speeds Object Recognition





Using Microwave Metamaterials in Machine Learning

A new approach to object identification, developed by researchers at



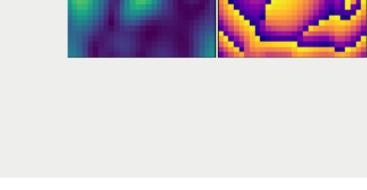
Duke University and the Institut de Physique de Nice (INPHYNI), enables joint learning of optimal measurement strategies and a

matching processing algorithm, and uses inferred knowledge about task, scene, and measurement constraints to improve the accuracy of object recognition tasks while using a limited number of measurements. Read Article 3 7 8 9

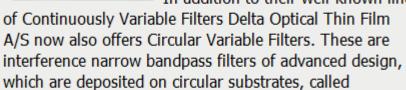








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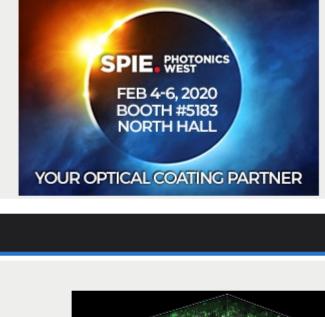
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To explore how learning and memory-building take place in the brain, scientists at Johns Hopkins University School of Medicine used a laser-

molecules, which help send messages between neurons, in mouse brains. Their experiments, they said, add to evidence that motor-based

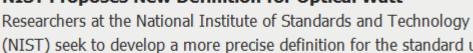
assisted imaging tool to monitor and measure levels of AMPAR

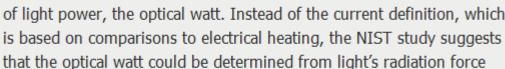
learning can occur in multiple areas of the brain, even in areas not typically associated with motor control. Read Article NIST Proposes New Definition for Optical Watt

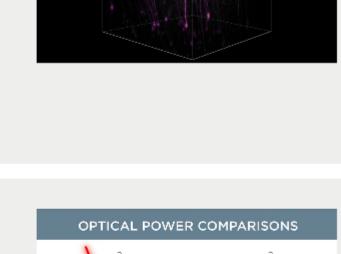
(NIST) seek to develop a more precise definition for the standard unit of light power, the optical watt. Instead of the current definition, which

and speed.

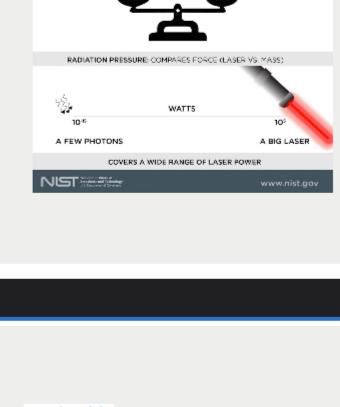








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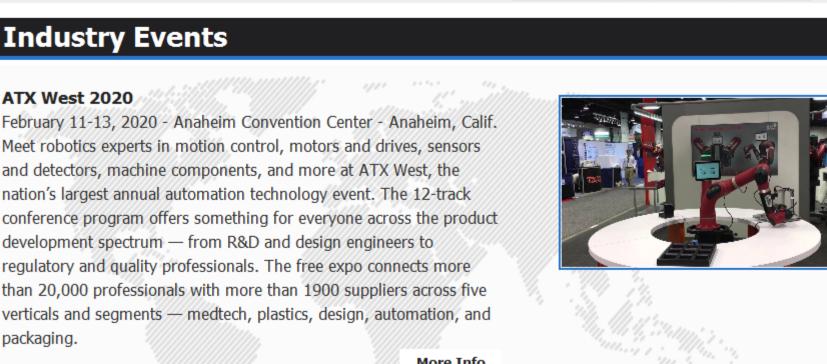
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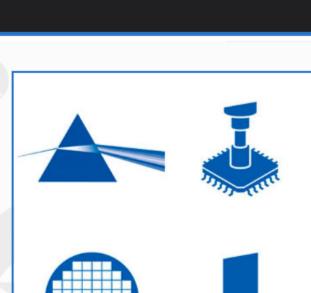
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