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High-Dimensional Quantum Encryption Takes Place in

Real-World City Conditions

A quantum-secured message containing more than one bit of information per photon has been sent through the air above the city of Ottawa, Ontario, Canada.

According to scientists, this is the first time high-dimensional quantum encryption has been demonstrated with free-space optical communication in real-world conditions.





Thermal Coatings



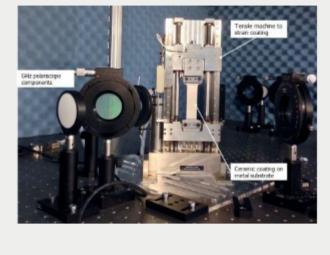


A strain-measurement technique uses optical analysis to reveal weak areas in the

temperatures and wear. This technique could be used to predict coating lifetime and could lead to novel thermal barrier coatings that would make engines more efficient.

ceramic thermal barrier coatings that protect jet engine turbines from high

Read Article New Bioimaging Technique Accurately Tracks Multiple In Vivo Interactions

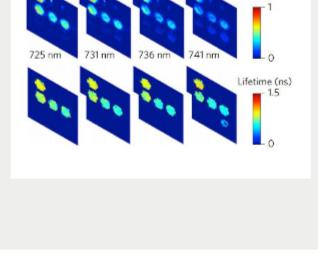


preclinical drug testing. The method is capable of simultaneously tracking 16 colors of spatially linked information over an area spanning several centimeters; it can

monitor multiple molecular interactions in a large area of living tissue. This technology could have applications in medical diagnosis, guided surgery or

A novel approach to optical imaging makes it possible to quickly and economically

capture interactions that occur in mere billionths of a second.









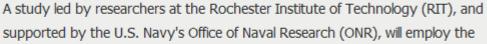


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bounced back and forth rapidly between two mirrors. Researchers placed a dyepolymer solution within an ultrahigh-finesse microcavity between the mirrors,

which cooled the laser light, causing the photons to concentrate and form a superphoton. Read Article 3 A B D Levitated Optomechanics Could Lead to Advances in Sensing Technology



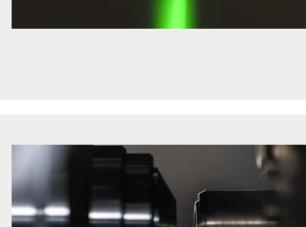




test the limits of quantum effects on nanoparticles in isolation.

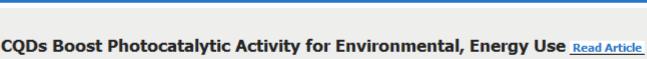


emerging field of levitated optomechanics to investigate precision quantum sensing technologies. Laser trapping techniques and quantum mechanics will be used to











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Optical Fabrication Photonics Media

Optical Fabrication is a new book for

anyone working on or interested in the

methods, materials and measurement

optical component manufacturing. The

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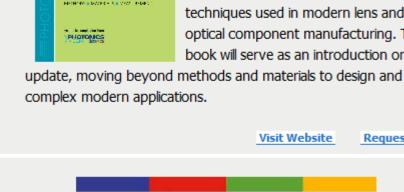
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techniques used in modern lens and

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function) in a single pass.





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Analyzer

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Canon RA-352H, Surface Reflectance Analyzer (goniophotometer),

is a compact, portable device capable of measuring GLOSS, HAZE,

IMAGE CLARITY, and BRDF (bidirectional reflectance distribution

WORLD SUMMIT

September 20-22, 2017 - Parc 55 San Francisco by Hilton at Union Square - San

More Info

the OLED value chain, from technical talks on materials and devices, to information on the current and future state of the market, to new applications and innovations. Presentations this year will include OLED lighting in automotive

The OLEDs World Summit is the only conference that brings together all parts of

applications, the TV of the future and more. Speakers will include top names and businesses in the lighting and display industry. Attendees will have ample opportunity to network with more than 100 leading industry experts in the international OLED community during dedicated networking breaks, lunches and events including the opening reception.

Learn Efficient Light Pipe Design Using Virtual

Prototyping Tue, Sep 19, 2017 1:00 PM - 2:00 PM EDT Attendees will learn how to design better, more efficient light pipes using Lambda Research's TracePro software - a 3D CAD virtual prototyping program with the power and tools to simulate and design light pipes. The presenter will demonstrate effective methods and detailed procedures for simulating light propagation in a light pipe model, analyzing cross-talk effects, producing desired output objectives, and optimizing models for efficiency and output. This webinar is for anyone designing light pipes, especially for automotive and avionic displays, industrial manufacturing, consumer electronics applications and medical devices. It's

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