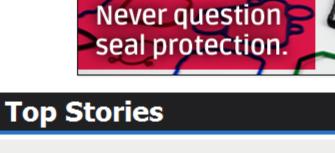
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## Combining Two Ultrathin Materials in a New QD Could **Enable Widely Tunable Quantum Systems**

### A new type of quantum dot (QD) has been developed that allows for more accurate and more widely tunable energy levels of confined electrons. The advance in QD technology combines graphene (a

conductive single atomic layer of carbon atoms) and hexagonal boron nitride (h-BN), a single layer of material similar to graphene except that it is insulating.

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Cancer Screening







# nodules. This novel device builds on the current ultrasound standard with a hybrid optics/ultrasound probe.

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fog too thick for human vision to penetrate. Under actual fog

conditions, researchers estimate the system could provide visibility of

A team of international researchers developed a point-of-care device that could enable consistent and cost-effective screening for thyroid

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between 30 and 50 m.

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### New Scale Technologies Inc. Precision rotary microstage has the controller inside! Easily embed



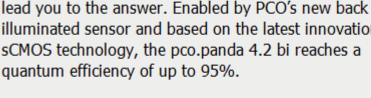
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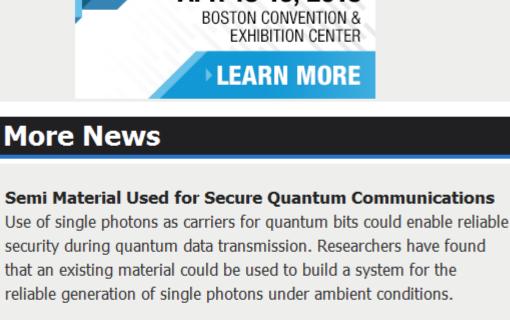
Illuminated!

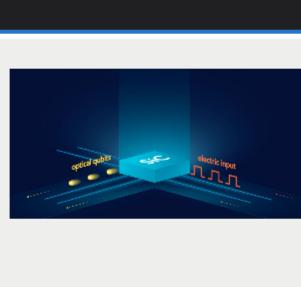
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# Read Article

**New Lens Provides Nanometer-Scale Resolution** A multilayer pair of materials, tungsten carbide and silicon carbide, was used to prepare high-efficiency, high-numerical aperture (NA)

multilayer Laue lenses (MLLs). In a series of studies, researchers used a pair of MLLs to achieve a 2D focus of  $8.4 \times 6.8$  nm at a photon energy of 16.3 keV. They demonstrated scanning-based imaging of samples

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**Industry Events** 

with a resolution below 10 nm.



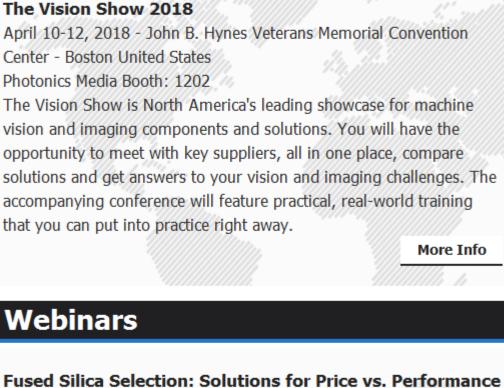


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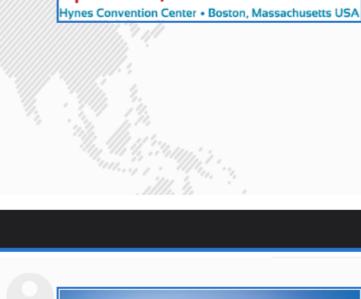
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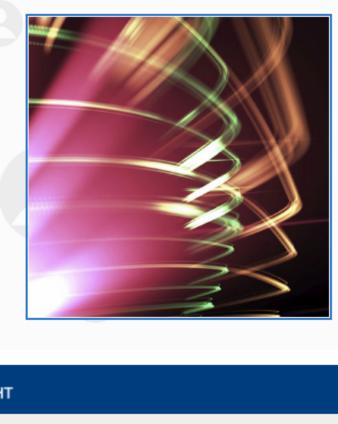
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Heraeus, you will learn how to choose which variety of fused silica best matches the price and performance points of a given application.

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