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Although banned in many industrialized countries since the 1980s, the threat of asbestos lingers on in ceilings, walls and floors of old buildings. Now, a new laser-based system that is the first portable detector of asbestos aims to provide an affordable way for tradespeople to identify airborne particles.

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An abundance of new research and development in optical detection at a distance is increasing the ability of governments and military organizations to more efficiently identify and categorize explosives, biological agents and other threats.

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#### Laser-Driven Neutrons Could Thwart Nuclear Smugglers

A single short-pulse laser-driven neutron source could make searching for nuclear materials smuggled in shipping containers much easier, an international experiment demonstrated.

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A new solution employing electronic components could make atmospheric-gas measurement more even and 1000 times faster than with conventional techniques and could advance greenhouse-gas measurement.

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#### Laser Spectroscopy Narrows Search for Origins of Superconductivity

The mechanism underlying high-temperature superconductivity has remained one of the most important and tantalizing puzzles in physics, but research that measures fleeting electron waves could help solve the mystery and pave the way for rapid technological advances.

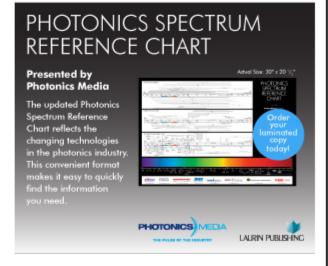
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