

NISTTech

AEROSOL ABSORPTION USING PULSED LASER PHOTOACOUSTIC SPECTROSCOPY

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Abstract

NIST researchers has invented a pulsed laser operating at 78 MHz to collect photoacoustic spectra (PAS) of an aerosol. The use of a pulsed sources allows for quantitative absorption measurements to be made of aerosol particles with volatile and semi-volatile coatings, mitigating the largest source of uncertainty in aerosol absorption measurements.

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Status of Availability

This invention is available for licensing exclusively or non-exclusively in any field of use.

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