

Development of a Multiwavelength Spectrometer





Development of a Multiwavelength Spectrometer



Design and development of a portable multiwavelength

In this study, we developed a diagnostic tool--a multispectral pen based on diffuse reflectance spectroscopy (DRS)--to enable real-time ex vivo

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A multi-crystal wavelength dispersive x-ray spectrometer

A multi-crystal wavelength dispersive hard x-ray spectrometer with high-energy resolution and large solid angle collection is described. The instrument is specifically designed for time-resolved

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Development of a Novel Multiwavelength, Time Resolved

During this PhD I have designed, built, and tested a multiwavelength, multi-channel, time resolved, near infrared optical spectrometer.

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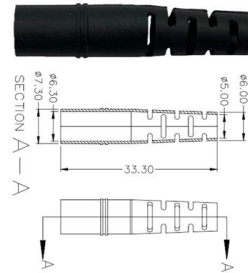
Development and evaluation of MWIR imaging spectrometer for multi

Many institutes have been carrying out researches on the development and application of MWIR imaging spectrometers , , . In order to



adapt the detection for moving target, we

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A novel multi-wavelength photoacoustic spectrometer for the

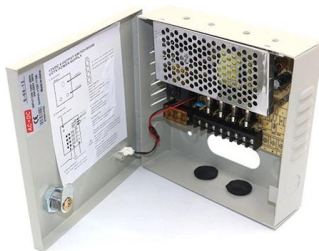
A multi-wavelength photoacoustic instrument is described, which measures the wavelength dependent optical absorption coefficient (OAC) of soot or soot

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(PDF) Development of Multi-Wavelength-Range High

We have developed a spectrometer specialized for a simultaneous high-resolution measurement of emission spectra of the hydrogen atomic Balmer

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Development and application of the multi-wavelength cavity ring-down

Semantic Scholar extracted view of "Development and application of the multi-wavelength cavity ring-down aerosol extinction spectrometer." by Junling Li et al.

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Development of a Near Infrared Multi-Wavelength, Multi

In order to address these issues we have designed and built a near infrared time domain multiwavelength spectrometer using a supercontinuum laser

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A Portable Multiexcitation Dispersive Raman

With portable Raman spectrometers, analysis can be done easily and quickly on site. Figure 3 shows an example in which a portable 785-nm Raman

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Development of a parallel, multiwavelength, multichannel,

In this work we present a time-domain near-infrared spectroscopy system using a supercontinuum laser for parallel acquisition of seven wavelengths at two interfiber distances.

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Progress on the development of multiwavelength imaging pyrometer

Experimental Multi-wavelength Imaging Pyrometer (M-WIP) is presented for remote sensing of temperature profiles of targets with unknown spectrally varying emissivity. A software

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Miniature integrated spectrometers towards high-performance and

Therefore, developing a new type of miniaturized, low-cost, and integrated spectrometer is necessary and urgent.

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Review of Miniaturized Computational Spectrometers

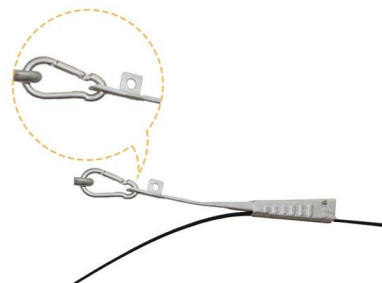
Spectrometers are key instruments in diverse fields, notably in medical and biosensing applications. Recent advancements in nanophotonics

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Multi-feature fusion identification algorithm for VNIR-SWIR spectra of

Rapid and accurate identification of molybdenite is critical for optimizing beneficiation processes but remains challenging due to complex gangue interference and environmental noise.

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Development and application of the multi-wavelength cavity ring-down

In this study, we designed and constructed a multi-wavelength cavity ring-down aerosol extinction spectrometer to determine the complex refractive index of aerosol particles in a relatively

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Development of multiwavelength-range fine-resolution

In this work, we developed a multiwavelength-range fine-resolution (MF) spectrometer for these hydrogen emissions and demonstrated it for the

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Development and application of the multi-wavelength cavity ring-down

For the measurement techniques, a multiwavelength cavity ring-down aerosol extinction spectrometer (MCRD-AES) was developed in 2019 to better characterize the optical properties of

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Development of a Novel Multiwavelength, Time Resolved, Near

During this PhD I have designed, built, and tested a multiwavelength, multi-channel, time resolved, near infrared optical spectrometer.

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Development of a Multiwavelength Thermal Lens Spectrophotometer

Instrumentation development of a novel multiwavelength thermal lens spectrophotometer which has the capability of achieving truly multi-wavelength excitation is described.

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Development of a double-beam, dual-wavelength

Development of a double-beam, dual-wavelength thermal-lens spectrometer for simultaneous measurement of absorption at two different wavelengths Mladen.

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(PDF) Development of a Portable All-Wavelength PPG

This paper contributes a novel and comprehensive state-of-the-art review of wearable multi-wavelength PPG sensing, encompassing motion artifact

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Development and characterization of a multidistance

This paper presents a multidistance and multiwavelength diffuse correlation spectroscopy (DCS) approach and its implementation to simultaneously measure

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An Extensive Library of Self-Developed Products



Development of a Near Infrared Multi-Wavelength, Multi

We present a novel time domain functional near infrared spectroscopy system using a supercontinuum laser allowing us to measure the coefficient of

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Chapter 24 Development of a Near Infrared Multi

Luke Dunne, Jem Hebden, and Ilias Tachtsidis
Abstract We present a novel time domain functional near infrared spectroscopy system using a supercontinuum laser allowing us to measure the coefficient of

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Development and application of the multi-wavelength cavity

To better characterize the optical properties of atmospheric aerosols, the multi-wavelength cavity ring-down aerosol extinction spectrometer (MCRD-AES) is developed and applied in this study. By using

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