

The Integrated UV-VIS MAMW spectrometer has the capabilities to perform low angle scattering measurements starting from 4θ with simultaneous detection of multiwavelength light from 200 nm to ...

Before selecting the scattering medium, we first analyzed the working mechanism of speckle-based RS. Fig. 2 shows the traditional spectrometer and the speckle-based RS schematic ...

Multiple wavelength spectrophotometry has been used to measure multiple components in a complex mixture, to correct for interferences, and to increase sensitivity. Examples of these applications will ...

Our newly developed 42CH multiwavelength spectrometer allows the capture of a spectral fingerprint in microseconds to microseconds with potential readout in SI units. The system under development will ...

We experimentally demonstrate the reconstruction of multiple wavelength light with an ultra-compact spectrometer. The spectrometer is based on a random photonic.

We describe a simple multiwavelength emission device, which is affordable yet suitable for solving real analytical problems. Simultaneous determination of Na, Li, K, Rb at 1-10 mg L⁻¹ level, and Ca, Sr, ...

We propose and experimentally demonstrate a compact high-resolution spectrometer with a multi-foci metalens. The novel metalens is designed based on wavelength and phase multiplexing, which can...

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In this study, a new detector for multiwavelength emission analytical ultracentrifugation (MWE-AUC) is presented, which allows measuring size- or composition-dependent fluorescence properties of ...

We have developed a four-channel NIR time-resolved spectrometer using a supercontinuum laser source and tunable narrow band filter system capable of measuring the TPSFs ...

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