

Portable spectrometers offer several advantages: 1. **Mobility:** Their compact size allows for easy transportation, making them suitable for fieldwork and remote...

As spectrometers progress from bulky lab instruments to compact, portable, and even wearable devices, the future of spectroscopy is transforming dramatically. These advancements ...

In this Q& A article, we explore the current state and future of portable spectroscopy. Worker inspect metal components of steel pipes with a portable XRF analyzer. Portable ...

Various spectrometers have been developed after extensive research and improvement however conventional spectrometers are very pricey paving way to the development of portable ...

This review covers both portable elemental spectrometers and portable optical (molecular) spectrometers. It discusses the overall history and maturity of these instruments and their field ...

This paper outlines what is available today in portable NIR spectroscopy, and how these instruments can be categorized; emerging applications of miniature spectrometers, especially those in...

This much-needed resource is the first comprehensive work to describe the enabling technologies of portable spectrometry, explain how various handheld and portable instruments work, ...

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**Summary** The initial investigations and proof of concept of a new application for a portable spectrometer may be carried out using existing laboratory instruments, including ...

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