Rare Element Composition Spectrometer

This application report outlines the elemental analysis of rare earth element (REE) samples using an advanced ED-XRF spectrometer.

The present work takes advantage of energy-dispersive X-ray fluorescence (ED-XRF) ease-of-use features to determine the concentration of ...

The modification of the EXP-1 spectrometer with the Am-241 excitation-based system significantly improved its ability to analyze a broader spectrum of rare-earth elements.

Understanding their precise composition is vital for ensuring product quality and meeting regulatory standards. This service ensures accurate quantification of REEs using state-of-the-art spectroscopic ...

The present work takes advantage of energy-dispersive X-ray fluorescence (ED-XRF) ease-of-use features to determine the concentration of rare earth elements (Y, Pr, Nd, Eu) and ...

Explore how LIBS is used to quantify trace amounts of rare earth metals that can be important for the net zero transition!

To determine how changes in spectral patterns across different scales affect the perceived distribution of rare earth elements, the three BIs are also applied to data collected by eight airborne ...

A method combining inductively coupled plasma-mass spectrometry (ICP-MS) with inductively coupled plasma-optical emission spectrometry (ICP-OES) was developed for ...

The results are shown in Table 7, where the target ("true") composition of each element in the test sample is compared with the values obtained when using the calibrated portable XRF ...

These integrated features provide optimal performance and unprecedented heavy and light element sensitivity for the most demanding applications, such as measurements of rare earth elements.

Abstract y (ICP-MS) is used to measure the concentrations of rare earth elements (REE) in certified standard reference materials including sh e and coal. The instrument used in this study is ...

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