

Analysis of Silver Dollars with a Spectrometer

Eleven coins, originating from different countries and spanning a chronological range of over one hundred years, were studied. The primary objective of the study is to demonstrate the ...

to an independent laboratory for ICP-AES analysis. See Table 5. The 1794 O-105 Half Dollar in Table 5 are arranged by emission order sequence. Also note that Table 5 includes the results for the ...

This paper details the application of a statistical method for the chronological discrimination of silver coins using counts per second trace elemental, inter-elemental ratios.

Physical analysis of ancient silver coins, based on measurements of bulk composition and elemental content of thin layer of tarnish, represents an important aspect of innovative archaeological ...

Experts at PCGS use a variety of technical methods when identifying and authenticating coins. One essential and often revealing examination is X-ray fluorescence spectroscopy (XRF), a ...

Silver coins belonging to different historical periods were investigated to determine the Ag/O atomic ratio depth profiles. Laser ablation has been employed to remove, in high vacuum, the first superficial ...

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X-ray fluorescence (XRF) analyzers provide a fast, accurate, and most importantly, nondestructive alternative for assessing the metal composition of coins, and are currently used by numismatic ...

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