

ملخص البحث رقم (١) باللغة الانجليزية

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**CHARACTERISATION OF LUSTRE COMPOSITIONS FROM EGYPT  
BY LIBS AND IBA**

**Abstract:**

Ion Beam Analysis (IBA) and Laser Induced Breakdown Spectroscopy (LIBS) are particularly useful tools for analysis of artworks, systematic characterization of luster was performed using IBA and LIBS. Spatially resolved elements distribution obtained by area scans in addition to spot analysis provided detailed information about the glaze and luster nano particles, the analytical results and the context of the luster were used to extract information about the luster technology. This work reports the analysis of ceramic samples decorated with luster, these sherds were collected from Al-Fustat site, the samples refers to Fatimid period in Egypt. The study aims to understand the technology of luster in Egypt through non (micro) - destructive techniques via the two different methods.