11
Accession number:20114114414577
Title:Investigation of Terra Cotta artefacts with terahertz
Authors:Labaune, Julien (1); Jackson, J. Bianca (1); Fukunaga, Kaori (3); White, Jeffrey (4); D'Alessandro, Laura (5); Whyte, Alison (5); Menu, Michel (2); Mourou, Gerard (1)
Author affiliation:(1) Institut de Lumière Extrême, 91120, Palaiseau, France; (2) Centre de Recherche et de Restauration des Musées de France, 75001, Paris, France; (3) National Institute of Information and Communications Technology, Nukui-Kitamachi Koganei, Tokyo 184-8795, Japan; (4) Picometrix, 2925 Boardwalk, Ann Arbor, MI 48104, United States; (5) Oriental Institute, 1155 East 58th Street, Chicago, IL 60637, United States
Corresponding author:Menu, M.(michel.menu@culture.gouv.fr)
Source title:Applied Physics A: Materials Science and Processing
Abbreviated source title:Appl Phys A
Volume:105
Issue:1
Issue date:October 2011
Publication year:2011
Pages:5-9
Language:English
ISSN:09478396
E-ISSN:14320630
CODEN:APAMFC
Document type:Journal article (JA)
Publisher:Springer Heidelberg, Haberstrasse 7, Heidelberg, 69126, Germany
Abstract:Terahertz Time Domain Imaging has been used in the last few years for the investigation of cultural heritage. In this article, the authors demonstrate the possibility to apply it for the investigation of clay artifacts. Tomographic images were obtained of a model in reflection, and an Egyptian vessel in transmission.
Number of references:13
Uncontrolled terms:Cultural heritages - Egyptians - Tera Hertz - Terra cotta - Time-domain imaging - Tomographic images
DOI:10.1007/s00339-011-6567-x
Database:Compendex