

1. Record Nr.	UNISA996411337803316
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Titolo	Nuclear physics for cultural heritage // Johan Nyberg, Faiçal Azaiez, Anna Macková, Douglas MacGregor
Pubbl/distr/stampa	Les Ulis : , : EDP Sciences, , [2021] ©2016
Descrizione fisica	1 online resource (80 p.)
Soggetti	Biology (General) SCIENCE / Physics / Nuclear
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- TABLE OF CONTENTS -- FOREWORD -- 1. IMPORTANCE OF NUCLEAR PHYSICS FOR CULTURAL HERITAGE STUDY AND PRESERVATION -- 2. ION BEAM ANALYTICAL METHODS -- 3. NEUTRON BEAM ANALYTICAL METHODS -- 4. DATING METHODS - LUMINESCENT DATING AND ACCELERATOR MASS SPECTROMETRY -- 5. COMPLEMENTARY METHODS: -BEAM TECHNIQUES, X-RAY FLUORESCENCE (XRF) AND NUCLEAR MAGNETIC RESONANCE (NMR) -- 6. PRESERVATION OF CULTURAL HERITAGE -- 7. CONCLUSION -- APPENDIX A: EUROPEAN FACILITIES USING NUCLEAR TECHNIQUES TO STUDY CULTURAL HERITAGE -- APPENDIX B: GLOSSARY OF TERMS -- APPENDIX C: EXPERTISE OF AUTHORS -- REFERENCES
Sommario/riassunto	Nuclear physics applications in medicine and energy are well known and widely reported. Less well known are the many important nuclear and related techniques used for the study, characterization, assessment and preservation of cultural heritage. There has been enormous progress in this field in recent years and the current review aims to provide the public with a popular and accessible account of this work. The Nuclear Physics Division of the EPS represents scientists from all branches of nuclear physics across Europe. One of its aims is the dissemination of knowledge about nuclear physics and its applications. This review is led by Division board member Anna Macková, Head of the Tandatron Laboratory at the Nuclear Physics Institute of the Czech

Academy of Sciences, and the review committee includes four other members of the nuclear physics board interested in this area: Faiçal Azaiez, Johan Nyberg, Eli Piasezky and Douglas MacGregor. To create a truly authoritative account, the Scientific Editors have invited contributions from leading experts across Europe, and this publication is the combined result of their work. The review is extensively illustrated with important discoveries and examples from archaeology, pre-history, history, geography, culture, religion and curation, which underline the breadth and importance of this field. The large number of groups and laboratories working in the study and preservation of cultural heritage across Europe indicate the enormous effort and importance attached by society to this activity.

2. Record Nr.	UNINA9910692850603321
Titolo	Glossary of chemical weapons agreement terms [[electronic resource]]
Pubbl/distr/stampa	[Alexandria, Va.] : , : Defense Threat Reduction Agency, , [2002]
Collana	Fact sheet
Soggetti	Chemical weapons Weapons of mass destruction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Feb. 20, 2003).