

ISSN 1005-1538

AATA收录期刊

中文核心期刊

中国科技核心期刊

中国学术期刊影响因子年报统计源期刊

中国人文社会科学期刊评价报告（AMI）来源刊

34 2022年 8月
第34卷 第4期
Vol.34 No.4

文物保护与考古科学

SCIENCES OF CONSERVATION
AND ARCHAEOLOGY

2022 No.4

上海博物馆

文物保护与考古科学

第 34 卷第 4 期

2022 年 8 月

[期刊基本参数]CN31-1652/K*1989*B*A4*128*ZH*P*¥38.00*1350*15*2022-8

目 次

研究报告

几种罕见的黄铜钱币锈蚀产物的识别与形成原因探析

..... 成小林,柳 敏,李 沫,杨 琴,王媛雪,张昕煜,牟 炜,王俪阁 (1)

新疆阿勒泰地区早期铁器时代铜器的科学分析研究 刘 成,刘杨幸和,卓娅·巴合提,郑 颀 (10)

城固出土 5 件商代青铜兽面饰的无损分析及初步研究 付文斌,侯鲜婷,蒋凤瑞,白 璐 (21)

三星堆一号青铜神树的三维数字建模与静力学分析

..... 谢振斌,李 飒,杨文涛,牛康民,郭建波,余 健,陈坤龙 (30)

养心殿镇物宝匣中木条的种属鉴定与历史考究 张国庆,罗 涵,谷 岸,高 飞,雷 勇 (39)

古代彩塑和壁画中植物纤维种类鉴别 王丹阳,张秉坚,周 旻 (47)

陕西旬邑西头遗址出土彩绘白灰面的成分和工艺分析 张杰妮,杨 璐,豆海锋,黄建华,孙文言 (58)

氢氧化镁-凹凸棒土复合材料的合成及在纸质文献脱酸中的应用

..... 张玉芝,王奇志,张金萍,陆海孟 (66)

聚丙烯纤维、偏高岭土和细砂对水硬石灰改性的研究 杨隽永,冯向伟 (72)

工作简报

邾国故城一件青铜带钩的保护及其错金技术特征 史本恒,王云鹏,路国权,王 青 (80)

山东青岛土山屯汉墓 M162 出土漆奁的髹漆工艺及相关问题研究 施宇莉,彭 峪 (90)

密闭环境下地下水分变化对唐皇城墙含光门土遗址的影响研究 黄四平,高 衡 (97)

固相微萃取-气相色谱-质谱在《江友渚等七挖书画轴》挥发性有机化合物分析中的应用

..... 丁 莉,杨 琴,李 郑 (105)

论 坛

基于 LoRa 与 NB-IoT 技术的文物保存环境监测系统探索及思考——以四川博物院为例

..... 雷 淑,张孜江 (114)

馆藏皮影文物的数字化保护探讨——以黑龙江省民族博物馆馆藏皮影为例 曲轶莉,张开亮 (123)

SCIENCES OF CONSERVATION AND ARCHAEOLOGY

Vol. 34 No. 4

Aug, 2022

Contents

Identification and interpretation of unusual corrosion products formed on brass coins	CHENG Xiaolin , LIU Min ,LI Mo ,YANG Qin ,WANG Yuanxue ,ZHANG Xinyu ,MOU Wei ,WANG Liyan (1)
Scientific analysis and research on early Iron Age bronzes in Altay Prefecture , Xinjiang	LIU Cheng ,LIU Yangxinghe ,Zoya Bahati ,ZHENG Jie (10)
Non – destructive analysis and preliminary research on five Shang Dynasty bronze beast – face decorations unearthed in Chenggu County	FU Wenbin ,HOU Xianting ,JIANG Fengrui ,BAI Lu (21)
3D modeling and statics analysis of the No . 1 bronze sacred tree from Sanxingdui	XIE Zhenbin ,LI Sa ,YANG Wentao ,NIU Kangmin ,GUO Jianbo ,YU Jian ,CHEN Kunlong (30)
Identification and historical study of wood strips in the treasure box of the Hall of Mental Cultivation	ZHANG Guoqing ,LUO Han ,GU An ,GAO Fei ,LEI Yong (39)
Identification of species of plant fibers in ancient painted clay sculptures and murals	WANG Danyang ,ZHANG Bingjian ,ZHOU Yang (47)
Material and technical analyses of painted plasters excavated from Xitou site in Xunyi County	ZHANG Jieni ,YANG Lu ,DOU Haifeng ,HUANG Jianhua ,SUN Wenyan (58)
Synthesis of a magnesium hydroxide – attapulgite composite and its application to the deacidification of paper literatures	ZHANG Yuzhi ,WANG Qizhi ,ZHANG Jinping ,LU Haimeng (66)
Research on the modification of hydraulic lime by polypropylene fiber , metakaolin and fine sand	YANG Juanyong ,FENG Xiangwei (72)
Conservation of a bronze belt hook unearthed from the capital city site of Zhu State and discussion of its gold – inlaying technology	SHI Benheng ,WANG Yunpeng ,LU Guoquan ,WANG Qing (80)
Study of the lacquering craftsmanship and related issues of a lacquer <i>Lian</i> unearthed from Tomb M162 of Tushantun Han tombs in Qingdao , Shandong	SHI Yuli ,PENG Yu (90)
Study of the influence of groundwater changes on the earthen site of Xi ' an Tang Hanguang Gate Museum in a closed environment	HUANG Siping ,GAO Heng (97)
Application of solid phase microextraction and gas chromatography – mass spectrometry to the volatile organic compound analysis of a scroll painting	DING Li ,YANG Qin ,LI Zheng (105)
Exploration and thoughts on environmental monitoring systems for the preservation of cultural relics based on LoRa and NB – IoT—taking Sichuan Museum as an example	LEI Shu ,ZHANG Zijiang (114)
Research on digital conservation and inheritance of shadow puppets in collection	QU Yili ,ZHANG Kailiang (123)