

ISSN 1000—6281

电子显微学报

Journal of Chinese Electron Microscopy Society



第 32 卷 第 1 期
Vol.32 No.1
(总第 165 期)

2013

ISSN 1000-6281



中国物理学会 主办

万方数据

电子显微学报

第32卷 第1期 2013年

目 次

[研究论文]

- 基于自适应陷波器的电子能量损失谱能量漂移的消除方法 谢琳,袁俊,王志伟,朱静(1)
主要合金元素对7000系铝合金铸态和均匀化状态的组织影响
刘萍,陈江华,刘吉梓,杨修波,秦芳,陈勇(6)
Zr-Al-Co-Cu块状金属玻璃晶化相的TEM研究 赵兵兵,李春艳,王英敏,石勇,董闯(14)
Al-7Si合金在热处理过程中的显微结构演变 龙慧池,陈江华,刘春辉,李祥亮(18)
高放电容量二氧化锰纳米材料的水热合成及微结构表征 胡鹏飞,鲁波,倪建森(25)
基于原子力显微镜对多肽自组装结构的纳米操纵研究 代彬,张福春,胡钧,张益(30)
水热条件下有机分子调控钛酸铅铁电纳米结构的高度取向生长
尹思敏,任召辉,钞春英,肖珍,刘振亚,沈鸽,韩高荣(35)
新疆拜城县波孜果尔A型花岗岩矿物的背散射和阴极发光特征
刘春花,雷敏,吴才来,尹京武,邵兴坤,杨海涛(42)
地铁颗粒物PM_{2.5}的SEM和微束XRF分析 杨永兴,包良满,雷前涛(47)
两种方法提取的麦冬多糖结构及聚集行为的比较研究 王小梅,孙润广,张静,郝长春,张力妮(54)
实验性急性出血坏死性胰腺炎早期肺损伤的超微病理学研究
张丹丹,李海燕,王民,陈瑞芬,刘立新(62)
抗裂性不同的枣果实发育过程中Ca²⁺分布动态变化 曹一博,张凌云,李艳芳(66)
木薯须根、块根韧皮部及其周围薄壁细胞的超微结构观察和功能分析 潘坤,聂佩显,卢诚,王文泉(73)
- [综述]
高速原子力显微术研究进展 赵剑勇,蔡微,商广义(81)
- [实验报告]
(显微技术在考古中应用专栏)
从一片大足石刻千手观音表面金箔分析获得的信息 周双林,陈卉丽(90)

封面插图选自2012年第三届“中国电子显微学摄影大赛”获奖作品(一等奖) (29)

责任编辑 李宁春
校 对 许芬秀

JOURNAL OF CHINESE ELECTRON MICROSCOPY SOCIETY

Vol. 32 No. 1 2013

CONTENTS LIST

A method to correct the energy drifts in electron energy-loss spectrum based on adaptive notch filter	XIE Lin, YUAN Jun, WANG Zhi-wei, ZHU Jing(1)
Influence of the main alloy elements on the microstructures of as-cast and homogenization treated state of 7000 series aluminum alloys	LIU Ping, CHEN Jiang-hua, LIU Ji-zi, YANG Xiu-bo, QIN Fang, CHEN Yong(6)
TEM study of the crystallization phases of Zr-Al-Co-Cu bulk metallic glasses	ZHAO Bing-bing, LI Chun-yan, WANG Ying-min , SHI Yong, DONG Chuang(14)
Microstructure development during heat treatment in an Al-7Si Alloy	LONG Hui-chi, CHEN Jiang-hua, LIU Chun-hui, LI Xiang-liang(18)
Hydrothermal synthesis and microstructural characterization of manganese binoxide nanostructures	HU Peng-fei, LU Bo, NI Jian-sen(25)
Mechanical nanomanipulation of individual peptide nanofilaments based on AFM	DAI Bin, ZHANG Fu-chun, HU Jun, ZHANG Yi(30)
Highly oriented growth of PbTiO ₃ , ferroelectric nanostructure directed by organic molecules under hydrothermal condition	YIN Si-min, REN Zhao-hui, CHAO Chun-ying, XIAO Zhen, LIU Zhen-ya, SHEN Ge, HAN Gao-rong(35)
Backscattered electron detection and the characteristics of cathodoluminescence of the minerals in A-type granitoids from Boziguor, Baicheng County, Xinjiang	LIU Chun-hua, LEI Min, WU Cai-lai, YIN Jing-wu, SHAO Xing-kun, YANG Hai-tao(42)
Study on airborne particulate matter in PM _{2.5} in Shanghai city's subway by SEM and SR-XRF	YANG Yong-xing, BAO Liang-man, LEI Qian-tao(47)
Comparative study on the structure and aggregation behavior of ophiopogon japonicus polysaccharides extracted by two methods	WANG Xiao-mei, SUN Run-guang, ZHANG Jing, HAO Chang-chun, ZHANG Li-ni(54)
Ultrastructural pathological study of lung injury in the early stage of experimental acute hemorrhagic and necrotic pancreatitis	ZHANG Dan-dan, LI Hai-yan, WANG Min, CHEN Rui-fen, LIU Li-xin(62)
Cytochemical localization of Ca ²⁺ in developing jujube fruit with different cracking resistance	CAO Yi-bo, ZHANG Ling-yun, LI Yan-fang(66)
Ultrastructures of phloem and its surrounding parenchyma cells of cassava fibrous and tuberous root	PAN Kun, NIE Pei-xian, LU Cheng, WANG Wen-quan(73)
Progress in high-speed atomic force microscopy	ZHAO Jian-yong, CAI Wei, SHANG Guang-yi(81)
Information gained by scientific analysis of one piece of golden foil from sandstone sculpture of thousands-hand Avalokiteśvara in Dazu	ZHOU Shuang-lin, CHEN Hui-li(90)