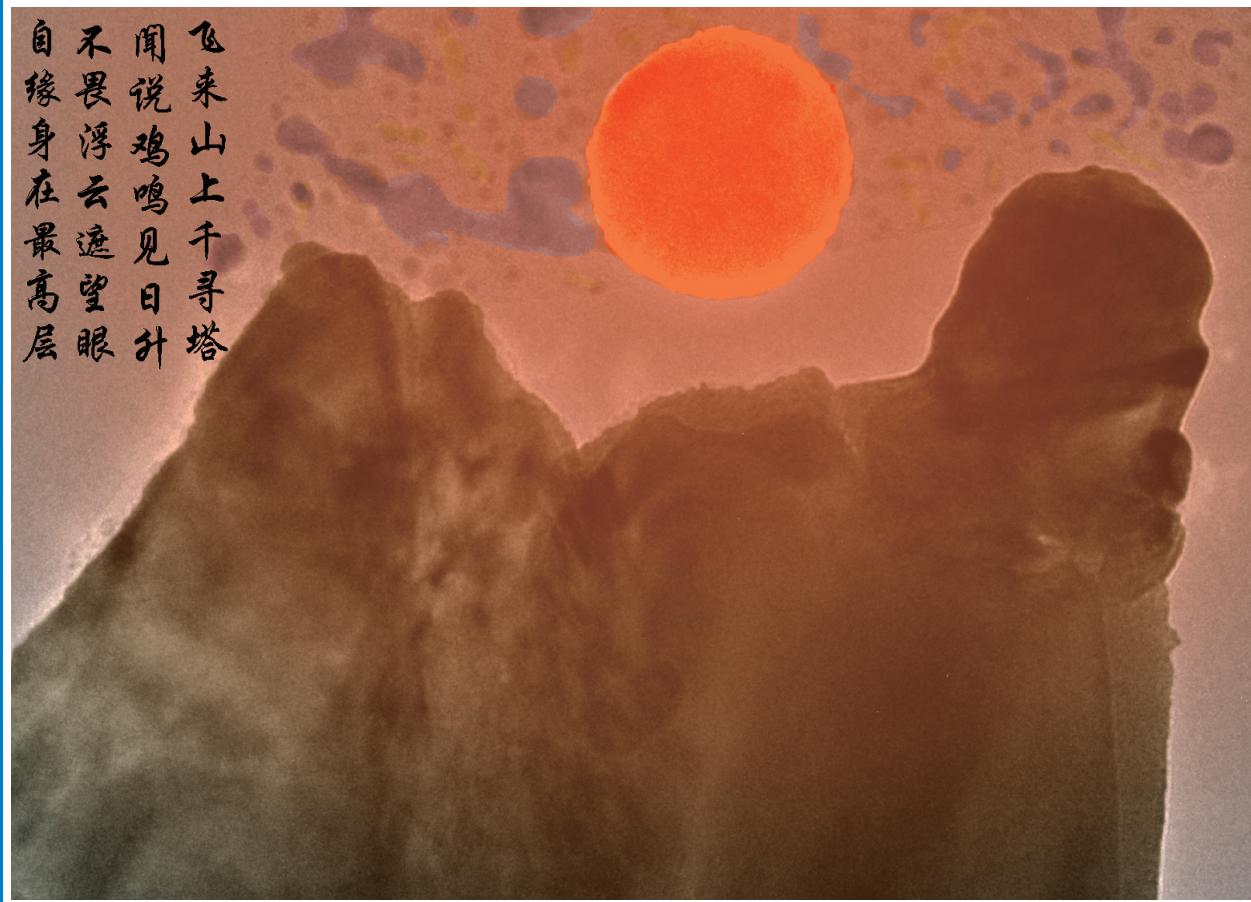


ISSN 1000-6281

电子显微学报

电子显微学報

Journal of Chinese Electron Microscopy Society



第40卷 第1期
Vol.40 No.1
(总第213期)

2021

ISSN 1000-6281



9 771000 628211

中国物理学会 主办

万方数据

110111年

J. Chinese EM Soc. Vol. 40 No. 1

电子显微学报

第40卷 第1期 2021年

目 次

[研究论文]

- 相变异质结(PCH)存储材料相变行为的原位观测 董自麒,丁科元,王旭,饶峰,田鹤,张泽(1)
沉积温度对BiFeO₃薄膜的微观结构与化学计量比的影响 雷炜斌,齐瑞娟,张怀斌(7)
固溶温度对铝基复合材料组织结构和力学性能影响 丁寻,刘宝胜,张庆云,徐建成(13)
Mg-Gd-Y合金时效初期析出结构的形成和演变 刘林林,孙威(18)
电子探针参数设置对钢板表面富集元素表征的影响 严春莲,崔桂彬,鞠新华(27)
应用XRD和HRTEM研究红粘土中的磁性矿物——以阿尔金新近系彩虹沟组剖面上段红粘土为例...
..... 魏小燕,李建星,潘峰,韩延兵,刘三(32)
- 子宫内膜异位症细胞微尺度刚度的初步实验研究 李霞,冯建涛,任克礼,孙全梅,赵小玲,韩东,孔为民(37)

[实验技术与方法]

- 不同腐蚀工艺对单晶Ge位错密度与微观形貌的影响 李金乐,李珊,杨晓京,马一鸣,张逸飞(45)
基于FIB-SEM制备尖晶石微米颗粒的球差校正透射电镜样品 王磊,曲迪,姬静远,白国人(50)
难检测样品的能谱分析技术研究 蔡志伟,任小明,禹宝军(55)
高压冷冻及冷冻替代技术在不同生物样品超微结构中的应用 葛灵,钦风凌,祁方杰,涂溢晖,何钧,边玮(61)

[大型仪器共享平台栏目]

- 电子显微镜平台使用数据分析及管理建议 刘轶群,张毓昕,郝雪梅(67)
激光扫描共聚焦显微镜的技术培训探索 许佳玲,罗剑文,钟创光,陈云凤,龙钊,张以顺(74)

[高端显微仪器实验室建设栏目]

- 高端电子显微镜实验室环境设计与建设技术要点 郭振奎,张斌,豆瑞发,茶丽梅,陈永圣,邵博,裴霞,韩玉刚(78)

[仪器介绍专栏]

- 荧光显微镜的成像原理及其在生物医学中的应用 林曼娜(90)

[综述]

- 扫描电镜在无源外科植人物检测中的应用综述 王常斌,聂佳祺,艾冲冲,李元彧,刘斌,刘阳,姚秀军,施燕平,万敏(94)

- 封面图选自2020年第十一届“中国电子显微镜摄影大赛”(优秀奖) 张辉(73)

责任编辑 李宁春
校 对 许芬秀

JOURNAL OF CHINESE ELECTRON MICROSCOPY SOCIETY

Vol.40 No.1 2021

CONTENTS

[Research paper]

- In situ observation of dynamic behavior of phase-change heterostructure (PCH) memory materials
..... DONG Zi-qi, DING Ke-yuan, WANG Xu, RAO Feng, TIAN He, ZHANG Ze(1)
- Effect of deposition temperature on microstructure and stoichiometric ratio of BiFeO₃ thin films
..... LEI Wei-bin, QI Rui-juan, ZHANG Huai-bin(7)
- Effect of solution temperature on microstructure and mechanical properties of aluminum matrix composite
..... DING Xun, LIU Bao-sheng, ZHANG Qing-yun, XU Jian-cheng(13)
- Formation and evolution of the precipitation structures at the very early aging stage of a Mg-Gd-Y alloy
..... LIU Lin-lin, SUN Wei(18)
- Influence of EPMA parameters on the characterization of alloying element enrichment on steel plate surface
..... YAN Chun-lian, CUI Gui-bin, JU Xin-hua(27)
- Study on the magnetic minerals in red clay by XRD and HRTEM using the red clay in the upper section of Neogene Caihonggou formation in Altun as an example
..... WEI Xiao-yan, LI Jian-xing, PAN Feng, HAN Yan-bing, LIU San(32)
- A preliminary study on microscale stiffness of endometrial cells
..... LI Xia, FENG Jian-tao, REN Ke-li, SUN Quan-mei, ZHAO Xiao-ling, HAN Dong, KONG Wei-min(37)
- Observational study on the pollen morphology of Cistanche Herba
..... ZHOU Yi-jia, LU Min, LUO Qian-fei, LI Xi-lin(41)

[Experimental technology and method]

- Effect of different corrosion processes on single crystal Ge dislocation density and micromorphology
..... LI Jin-le, LI Shan, YANG Xiao-jing, MA Yi-ming, ZHANG Yi-fei(45)
- Preparation of spherical aberration corrected TEM samples of Spinel micro-sized particles based on FIB-SEM
..... WANG Lei, QU Di, JI Jing-yuan, BAI Guo-ren(50)
- Study on the energy spectrum analysis technology of difficult to detect samples
..... CAI Zhi-wei, REN Xiao-ming, YU Bao-jun(55)
- The application of highpressure freezing-freeze substitution technique in ultrastructure of different biological samples
..... GE Ling, QIN Feng-ling, QI Fang-jie, TU Yi-hui, HE Jun, BIAN Wei(61)

[Sharing platform for large-scale equipment]

- Usage data analyses and management suggestions of electron microscopy facility
..... LIU Yi-qun, ZHANG Yu-xin, HAO Xue-mei(67)
- Exploration of technical training for laser scanning confocal microscope
..... XU Jia-ling, LUO Jian-wen, ZHONG Chuang-guang, CHEN Yun-feng, LONG Zhao, ZHANG Yi-shun(74)

[Construction of high-tech microscopic instrument laboratory]

- Key points of environmental design and construction of high-end electron microscope laboratory
..... GUO Zhen-xi, ZHANG Bin, DOU Rui-fa, CHA Li-mei, CHEN Yong-sheng, SHAO Bo, PEI Xia, HAN Yu-gang(78)

[Instrument introduction]

- Imaging principles of fluorescence microscopy and its application in biomedicine
..... LIN Man-na(90)

[Review]

- Application of scanning electron microscopy in detection of non-active surgical implants: a review
..... WANG Chang-bin, NIE Jia-qi, AI Chong-chong, LI Yuan-yu, LIU Bin, LIU Yang, YAO Xiu-jun, SHI Yan-ping, WAN Min(94)