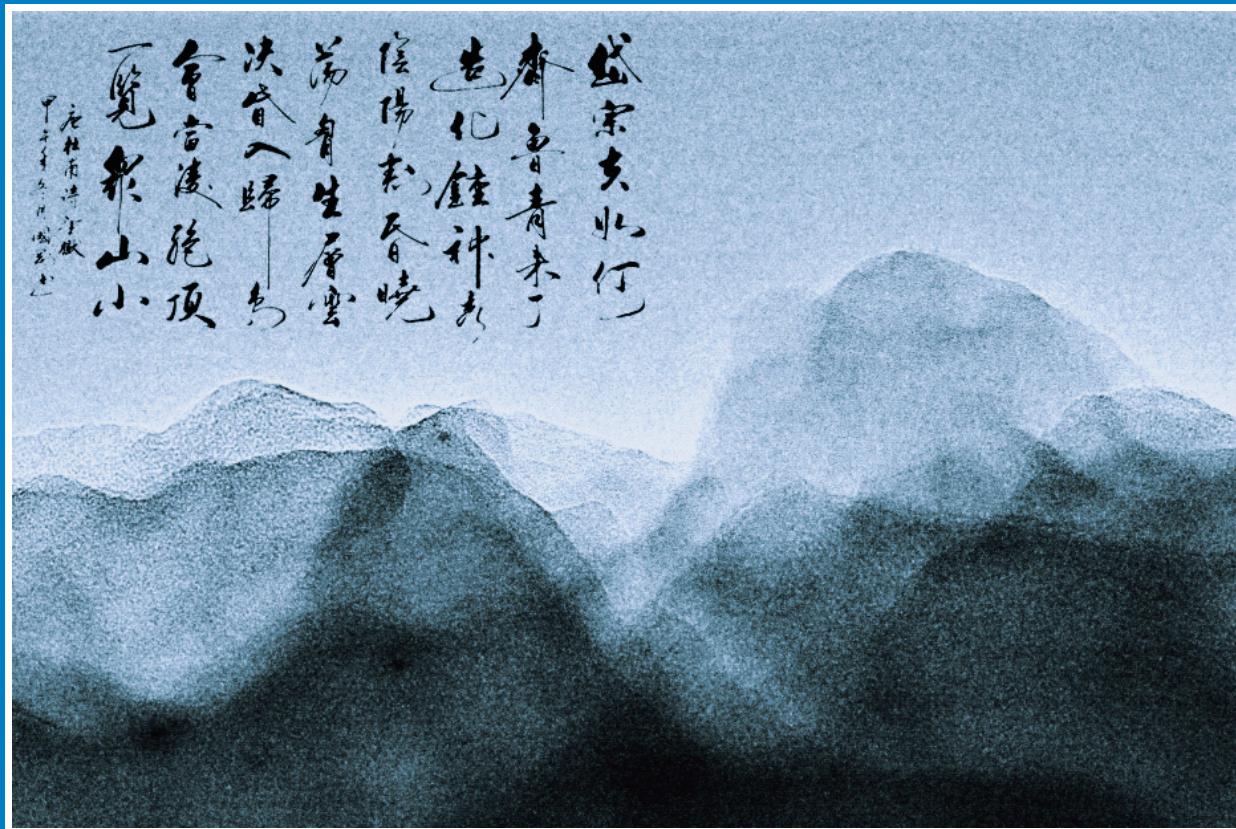


ISSN 1000-6281

电子显微学報

Journal of Chinese Electron Microscopy Society



第39卷 第3期
Vol.39 No.3
(总第209期)

2020

ISSN 1000-6281



9 771000 628204

中国物理学会 主办

电子显微学报

第39卷 第3期 2020年

目 次

[研究论文]

- 第三代镍基单晶高温合金原位加温-拉伸的研究 陈宇杰,党理,张泽,李吉学(233)
扫描电子显微镜原位可变温度电化学测试装置 唐亮,石慧峰,马晋遜,张宜旭,吴睿,张跃飞(238)
Ni/NiO 网上 PbO₂ 薄膜的制备 冯战百,陈燚,田楠,龙飞(245)
基于 Matlab 的磁透镜场分布计算与优化分析 史丽娜,刘俊标,李文萍,韩立(250)
热电子阴极材料 LaB₆ 的单晶制备工艺与热发射性能研究 缪加巍,伍岳,高召顺,阴生毅,肖立业,韩立,马玉田,刘俊标,左婷婷(256)
X65 抗酸管线钢氢致开裂的晶体学表征 张继明,朱延山,邵春娟,曲锦波(261)
纤维素醚对早期钙矾石形貌影响的对比研究 钱匡亮,彭宇,赵国荣,王培铭(268)
氦离子显微镜在页岩有机质孔隙识别中的应用 王朋飞,田黔宁,张玮,金璨,刘国,臧小鹏,张昆,李鑫(274)
基于小波包变换的冷冻电镜单颗粒重构局部滤波算法 赵赫,李雪明,沈渊(282)
乙醇和 pH 值对镁离子导致 DNA 凝聚的协同作用 章玮,章琪,吕方怡,罗胜,王艳伟(288)
拟南芥转录因子 LFY2 的表达和功能分析 赵芝婧,李丽红,要笑云,刘頓(294)
干旱胁迫和脱落酸对杨树根内皮层发育的影响 于洋,刘春浩,樊守金,贺新强(300)
用超微细胞化学定位技术揭示 ATP 酶在牛膝菊低温适应性中的作用 贺俊英(307)
果实种子类药材微形态的鉴别研究 王利丽,杨珂,郭雨轩,马美杰,陈随清(313)
- [电子显微镜应用]
- 淡水有核与无核珍珠的结构对比研究 张莲,刘迎新(323)
- [电子显微镜在病理诊断中应用]
- 一例 X 连锁肌病伴过度自噬的电镜超微病理观察 王亚琼,吴强,周胜利,吴金浪(331)
- [实验技术与方法]
- 一种体外培养神经元原位包埋电镜样品的制作方法 金良韵,陈欣月,杜尊赎,常丽荣,宋一志,李慧,武艳(334)
高脂肪动物组织的扫描电镜样品制备方法 王莹,王振宇,何珊,马慧,魏相茹,孙艳丽(337)
- *书评*
- 共聚焦显微内镜在胃肠肿瘤外科护理中的运用 闫晓萌,林琳(i)
应用透射电子显微镜观察重症急性胰腺炎组织的超微结构 王毅苗,安娇娜,李树铁(ii)
- 封面图选自 2019 年第十届“中国电子显微摄影大赛”(三等奖) 陈涛(267)

责任编辑 李宁春
校 对 许芬秀

JOURNAL OF CHINESE ELECTRON MICROSCOPY SOCIETY

Vol.39 No.3 2020

CONTENTS

[Research paper]

- Research on *in-situ* heating and stretching of the third generation nickel-based single crystal superalloy.....
..... CHEN Yu-jie, DANG Li, ZHANG Ze, LI Ji-xue(233)
- The design of *in-situ* electrochemical-scanning electron microscope (ECSEM) system
..... TANG Liang, SHI Hui-feng, MA Jin-yao, ZHANG Yi-xu, WU Rui, ZHANG Yue-fei(238)
- Preparation of PbO₂ on Ni/NiO mesh substrate FENG Zhan-bai, CHEN Yi, TIAN Nan, LONG Fei(245)
- Calculation and optimization analysis of magnetic lens field distribution based on Matlab
..... SHI Li-na, LIU Jun-biao, LI Wen-ping, HAN Li(250)
- Study on single crystal preparation and thermal emission properties of hot electron cathode material
LaB₆ MIAO Jia-wei,
WU Yue, GAO Zhao-shun, YIN Sheng-yi, XIAO Li-ye, HAN Li, MA Yu-tian, LIU Jun-biao, ZUO Ting-ting(256)
- Crystallographic characterization of hydrogen induced cracking in an X65MS acid-resistant pipeline steel
..... ZHANG Ji-ming, ZHU Yan-shan, SHAO Chun-juan, QU Jin-bo(261)
- Comparison on morphology of ettringite transformed by different cellulose ethers at early ages
..... QIAN Kuang-liang, PENG Yu, ZHAO Guo-rong, WANG Pei-ming(268)
- Application of helium ion microscope in recognition of organic matter pore in shale WANG Peng-fei,
TIAN Qian-ning, ZHANG Wei , JIN Can, LIU Guo , ZANG Xiao-peng, ZHANG Kun, LI Xin(274)
- Wavelet packet transform based local filter in cryo-EM single particle reconstruction
..... ZHAO He, LI Xue-ming, SHEN Yuan(282)
- Synergistic effect of ethanol and pH on the aggregation of DNA by magnesium ions
..... ZHANG Wei, ZHANG Qi, LÜ Fang-yi, LUO Sheng, WANG Yan-wei(288)
- Expression and functional analysis of *Arabidopsis* transcription factor LFY2
..... ZHAO Zhi-jing, LI Li-hong, YAO Xiao-yun, LIU Di(294)
- Effects of drought stress and ABA on the development of endodermis in poplar root
..... YU Yang, LIU Chun-hao, FAN Shou-jin, HE Xin-qiang(300)
- Study on the effect of ATPase on the low-temperature adaptability of *Galinsoga parviflora* Cav. by
ultracytochemical localization HE Jun-ying(307)
- Identification of micromorphology of fruit and seed herbs
..... WANG Li-li, YANG Ke, GUO Yu-xuan, MA Mei-jie, CHEN Sui-qing(313)

[Application of electron microscope]

- Comparative study on the structure of freshwater nuclear pearls and non-nuclear pearls
..... ZHANG Lian, LIU Ying-xin(323)

[Application of electron microscope in pathological diagnosis]

- Ultrapathological observation of a case of X-linked myopathy with excessive autophagy under electron
microscope WANG Ya-qiong, WU Qiang, ZHOU Sheng-Li, WU Jin-lang(331)

[Experiment technology and method]

- Preparation of *in situ* embedding electron microscopic samples of cultured neurons in vitro
..... JIN Liang-yun, CHEN Xin-yue, DU Zun-shu, CHANG Li-rong, SONG Yi-zhi, LI Hui, WU Yan(334)

- Preparation method of scanning electron microscope samples for high fat animal tissues
..... WANG Ying, WANG Zhen-yu, HE Shan, MA Hui, WEI Xiang-ru, SUN Yan-li(337)

* Book review *

- Application of confocal endoscopy in surgical nursing of gastrointestinal tumor ... YAN Xiao-meng, LIN Lin(i)
Ultrastructural observation of severe acute pancreatitis with transmission electron microscope
..... WANG Yi-miao, AN Jiao-na, LI Shu-tie(ii)