合剛石马虎科虎县工程

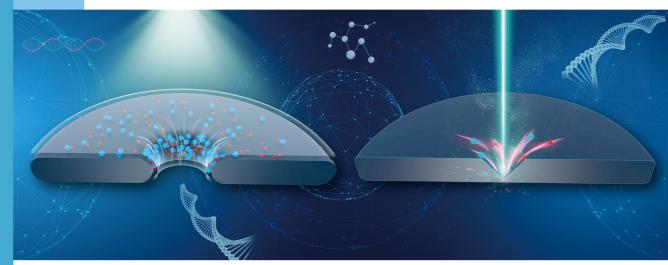
Diamond & Abrasives Engineering





2023年2月 第43卷第1期

本期封面文章



固态纳米孔高能束制造方法

作者: 陈威, 郑李娟, 艾思棋, 刘佑明, 王成勇, 袁志山

本期特约文章:

超硬材料行业绿色低碳发展调研报告

3D打印金刚石复合片及其钻头的研究进展

陶瓷材料的DIW工艺在陶瓷基金刚石工具中应用的关键技术问题

金刚石工具加工SiO_{2f}/SiO₂复合材料的可行性研究

固态纳米孔高能束制造方法	胜上 如本归 处田地 刘儿田 干以高 老上!(1)
超硬材料行业绿色低碳发展调研报告	陈威, 郑李娟, 艾思棋, 刘佑明, 王成勇, 袁志山 (1)
3D 打印金刚石复合片及其钻头的研究进展	李利娟,张贝贝,孙兆达 (10)
孕镶金刚石钻头钻进花岗岩岩屑特性室内试验研究	
FeCoCu 预合金粉末含量和烧结温度对碳化钨基钴头性能的影响	李俊萍,胡立 (29)
磨损齿 PDC 钻头的切削性能试验	
砾岩层 PDC 切削齿优选试验	
陶瓷材料的 DIW 工艺在陶瓷基金刚石工具中应用的关键技术问题	程书婷, 王红波, 纪慧, 蔡茂盛, 李赛 (43)
润滑剂对金属磨具湿法成形组织和性能的影响	王娅妮,张绍和,张谦,孔祥旺,何焘,赵东鹏,高华 (49)
	邵俊永,黎克楠,冯圆茹,张良,窦振,董德胜,李大水,许本超 (59)
超硬磨料砂轮自动化复合修整机床 CAM 系统开发	陈根余,蓝圣增,王彦懿,欧阳征定,周伟,李明全,李杰 (66)
金刚石工具加工 SiO _{2f} /SiO ₂ 复合材料的可行性研究	高航,李睿祺,许启灏,兰宝华 (75)
GFRP 低频轴向振动制孔的钻削力特性和套料钻磨损分析	·············· 董香龙,郑雷,韦文东,孙晓晗,刘子文,孙衍涛,何智伟 (82)
C/SiC 复合材料微孔的电镀金刚石钻头钻削加工	更有无, 朴丽, 中人宗, 如则岭, 对于人, 如归两, 四有印(62)
基于 YOLOv5 和 DeepSORT 的金刚石锯丝磨损监测	
安装角度对交叉孔试件振动抛磨效果的影响分析	袁俊涛,赵礼刚,秦齐,王天旭,刘志强 (96)
涡轮叶片内冷通道的磨料流光整加工特性	
基于控制研磨深度的金刚石研磨质量分析	

特约文章: 固态纳米孔高能束制造方法 特约专家: 广东工业大学 王成勇教授

Fabrication method of high energy beam for solid-state nanopore
Research report on green and low-carbon development of superhard material industry
Research progress of 3D printing PDC and PDC bit
Experimental study on rock cutting characteristics of granite broken by impregnated diamond bit
Effect of content of FeCoCu pre-alloy powder and sintering temperature on performance of tungsten carbide drill bit
LI Junping, HU Li (29
Experimental study on working mechanics of PDC bit with worn teeth
ZHANG Chunliang, WANG Jincheng, KE Xiaohua, FENG Xiao, YANG Yingxin, REN Haitao, HUANG Zixuan (35
Experimental study on optimization of PDC cutting teeth for conglomerate layer
Key technical problems of the application of DIW process of ceramic materials in ceramic-based diamond tools
WANG Yani, ZHANG Shaohe, ZHANG Qian, KONG Xiangwang, HE Tao, ZHAO Dongpeng, GAO Hua (49
Effect of lubricants on microstructure and properties of metal abrasive tools via wet molding
SHAO Junyong, LI Kenan, FENG Yuanru, ZHANG Liang, DOU Zhen, DONG Desheng, LI Dashui, XU Benchao (59
Development of CAM system for automatic compound dressing of superabrasive grinding wheels
······································
Feasibility study on SiO _{2f} /SiO ₂ composites processed by diamond tools
GAO Hang, LI Ruiqi, XU Qihao, LAN Baohua (75
Analysis of drilling force characteristics and trepanning tool wear during GFRP low frequency axial vibration drilling hole
DONG Xianglong, ZHENG Lei, WEI Wendong, SUN Xiaohan, LIU Ziwen, SUN Yantao, HE Zhiwei (82
Drilling of C/SiC composite micro holes with electroplated diamond bits
PANG Jiwei, LI Sheng, GUO Mingbo, WANG Zhaohui, XI Jianren, YANG Xiaotao (90
Wear monitoring of diamond saw wire based on YOLOv5 and DeepSORT
YUAN Juntao, ZHAO Ligang, QIN Qi, WANG Tianxu, LIU Zhiqiang (96
Analysis of influence of installation angle on vibration finishing effect of cross hole specimen
JIA Jian, LI Xiuhong, LI Wenhui, YANG Shengqiang, WANG Jiaming (102
Abrasive flow finishing characteristics of internal cooling channel of turbine blade
Diamond grinding quality analysis based on controlled grinding depth
PANG Fei, LEI Dajiang, WANG Wei (118