

目 次

研究和应用

- Ni 含量对无压烧结金刚石刀头层间结合的影响研究 潘晓毅, 谢德龙, 林峰, 等(1)
用陶瓷 cBN 砂轮磨削 LED 基板 吕升东, 刘宏伟, 姜滨, 等(5)
真空净化处理工艺参数对 PDC 耐磨性的影响 张涛, 卢灿华, 刘俊涛, 等(13)
聚晶金刚石表面研磨抛光试验研究 魏杰, 张国威, 李彦涛(18)
金刚石点状树脂软磨片磨削性能的研究 肖乐银, 谢德龙, 陈超, 等(22)
氯化钠对合成聚晶立方氮化硼复合片质量的影响 张喆, 张俊, 王文龙, 等(26)
聚晶金刚石复合片的室温去钴工艺及耐磨性研究 王彩利, 刘慧萍, 方海江(30)
大尺寸 Ga /Sc 共掺 ZnO 晶体的水热法生长及光的吸收特性 卢福华, 任孟德, 周海涛, 等(35)

产业与综述

- 光电材料加工用套料钻头和研磨减薄砂轮关键制造技术 刘伟, 刘一波, 曹彩婷, 等(39)
浅谈在盐溶矿开采中金刚石绳锯的制备及应用 杨理清(45)
烧结设备对锯片性能的影响及在生产中的应用研究 彭乃聪, 张翠芳, 张智强, 等(49)

珠宝专栏

- 电感耦合等离子体发射光谱法测定硬金饰品中有害元素砷的含量 张华, 梁丝柳, 唐杰(56)
浅析中国婚嫁传统中黄金首饰的发展和文化 艾苏洁, 黄若然(59)
珠宝玉石质检机构风险状况评判 刘姣, 刘苏君, 魏薇(65)

其 它

超短光脉冲诱导金刚石光学声子量子态的控制(12) 国仪量子发布全球首款金刚石量子计算教学机 科大国创战略参股(17) 金刚石基逻辑电路:尺寸更小、更耐高温(25) 超硬材料助力油汽超深井钻井技术和高质量勘探开发(34) 黄河旋风拟投资 9.51 亿元建设金刚石线产业化项目(38) 人造金刚石对天然钻石的巨大冲击(55) 新研发的纳米温度计利用金刚石纳米颗粒来提升测量精度(58) 令人吃惊的中国金刚石:年产 200 亿克拉占全球九成,还有 70% 机器闲置(64)

* * * * *

公告:为扩大影响,本刊加入了万方数据库等电子媒介,本刊付作者稿酬包括了这部分权益。作者所投稿件中如有侵权行为责任自负。

CONTENTS

- Effect of Ni content on interlaminar bonding strength of pressureless sintered diamond segments PAN Xiao-yi, XIE De-long, LIN Feng, *et al*(1)
- Grinding of LED substrate with ceramic cBN grinding wheel LU Sheng-dong, LIU Hong-wei, JIANG Bin, *et al*(5)
- Effect of Vacuum Purification Process Parameters on Wear Resistance of PDC ZHANG Tao, LU Can-hua, LIU Jun-tao, *et al*(13)
- Experimental Study on Grinding and Polishing Surfaces of Polycrystalline Diamond WEI Jie, ZHANG Guo-wei, LI Yan-tao(18)
- Research on grinding performance of resin-bonded diamond polishing pads by orderly arrangement XIAO Le-yin, XIE De-long, CHEN Chao, *et al*(22)
- Effect of Sodium Chloride on the Quality of Polycrystalline Cubic Boron Nitride Composites ZHANG Zhe, ZHANG Jun, WANG Wen-long, *et al*(26)
- A study on Cobalt removal technique and wear resistance of polycrystalline diamond compact at indoor temperature WANG Cai-li, LIU Hui-ping, FANG Hai-jiang(30)
- Hydrothermal growth and light absorption of large size Ga /Sc Co—doped ZnO crystals LU Fu-hua, REN Meng-de, ZHOU Hai-tao, *et al*(35)
- Key manufacturing technology of diamond core bits and thinning grinding wheels used in processing photoelectric materials LIU Wei, LIU Yi-bo, CAO Cai-ting, *et al*(39)
- Analysis on the preparation and application of diamond Wire saw in the mining of salt-dissolving ore YANG Li-qing(45)
- Effect of Sintering Equipment on Saw Blade Performance and Its Application in Production PENG Nai-cong, ZHANG Cui-fang, ZHANG Zhi-qiang, *et al*(49)
- Determination Of Arsenic Content In Hard Gold Ornaments By Inductively Coupled Plasma Emission Spectrometry ZHANG Hua, LIANG Si-liu, TANG Jie(56)
- Analysis on the Development and Culture of Gold Jewelry in Chinese Marriage Custom AI Su-jie, HUANG Ruo-ran(59)
- Risk Assessment of Jewelry and Jade Quality Inspection Institutions LIU Jiao, LIU Su-jun, WEI Wei(65)

* * * * *

Bulletin: The Journal is embodied by domestic and international electric mediums including Wanfang Database etc. The author's remuneration paid to the authors also includes the rights and interests of this part. Author has to promise that the contribution to the Journal should not violate the other's intellect property.