

目 次

研究和应用

- 新型碳化硅基体单层 CVD 金刚石磨盘的制备 申笑天,孙方宏(1)
无机溶胶陶瓷结合剂的制备与研究 常闯,万隆,李建伟,等(7)
干式硬石材小规格薄壁钻的研制 方利灵,董先龙,方啸虎(11)
电镀金刚石线切割单晶硅表面损伤研究 陈超,彭少波,陈家荣,等(16)
金刚石锯片中金刚石粒度与切割瓷砖崩边效果的关系 张健琼,刘一波,杨志威,等(22)
煤矿井下可开闭式 PDC 钻头的设计与优化 王传留,高晓亮,张朋(26)
纳米金刚石薄膜的掺杂与电学性能研究 胡晓君,刘建军,徐辉,等(30)
叶蜡石合成块加热方向尺寸对人造金刚石合成的影响 武艳强,毛海涛,李盟,等(34)
超高压卸压阀的卸压特性分析 刘创勋,张建华,孙晓盼,等(37)
合成工艺中各阶段时间对人造金刚石合成的影响 尹维召,邵静茹,姜豪,等(41)

产业与综述

- PcBN 刀具材料的发展历程与展望 张延军,王文龙(46)
加强行业技术管理,尊重知识产权,保持行业健康发展 崔祥仁,方啸虎(52)

珠宝专栏

- 浅析现代商业首饰设计之情侣对戒设计 牛小丽(57)
一粒经辐照处理的蓝色钻石的鉴定特征 朱红伟,李婷,燕菲,等(62)

其 它

- 世界四大钻石切磨中心(21) 日本防务省资助富士通公司研究金刚石和碳化硅衬底散热技术(33) 世上最古老的钻石——马果钻石(40) 消费者误以为人造的就是假的,人造钻石认知度低(51) 鄂州市工商局为金刚石发展保驾护航(56) 山东临沂出产的钻石全国最大(61)

* * * * *

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

- Preparation of New Type of SiC Matrix Monolayer CVD Diamond Grinding Wheel
..... SHEN Xiao-tian , SUN Fang-hong(1)
- Synthesis and characterization of inorganic sol ceramic binder
..... CHANG Chuang , WAN Long , LI Jian-wei , et al(7)
- Study on small specification dry-type thin-wall drill bit
..... FANG Li-ling , DONG Xian-long , FANG Xiao-hu(11)
- Subsurface damage of single-crystalline silicon in electroplated diamond wire slicing
..... CHEN Chao , PENG Shao-bo , CHEN Jia-rong , et al(16)
- Relationship between the diamond grit and cutting effect of ceramic tiles by using the diamond saw blade
..... ZHANG Jian-qiong , LIU Yi-bo , YANG Zhi-wei , et al(22)
- Research and optimization of switchable bit used in coal mine underground
..... WANG Chuan-liu , GAO Xiao-liang , ZHANG Ming(26)
- Study on the doping and electrical properties of nano-diamond film
..... HU Xiao-jun , LIU Jian-jun , XU Hui , et al(30)
- Effect of the heating direction size of pyrophyllite in artificial synthetic diamond
..... WU Yan-qiang , MAO Hai-tao , LI Meng , et al(34)
- Analysis of pressure release characteristics on ultra-high pressure relief valve
..... LIU Chuang-xun , ZHANG Jian-hua , SUN Xiao-pan , et al(37)
- Influences of each stage time on diamond in the synthesis process
..... YIN Wei-zhao , SHAO Jing-ru , JIANG Hao , et al(41)
- Development and prospect of P_cBN tool materials ZHANG Yan-jun , WANG Wen-long(46)
- Strengthen industry technology management and respect intellectual property to maintain the industry healthy development CUI Xiang-ren , FANG Xiao-hu(52)
- Brief Analysis of Couple Rings Design in Modern Commercial Jewelry Design NIU Xiao-li(57)
- Identification characteristics of the irradiated blue diamond
..... ZHU Hong-wei , LI Ting , YAN Fei , et al(62)

* * * * *

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.