

ISSN 1001-7119

全国中文核心期刊

中国科技核心期刊

科技通報



BULLETIN OF SCIENCE AND TECHNOLOGY

2016年12月第32卷 第12期
Vol.32 No.12 Dec. 2016

浙江省科学技术协会主办

Sponsored by Zhejiang Association for Science and Technology



中国·杭州
HANGZHOU CHINA

科技通報

KEJI TONGBAO

第32卷 第12期 2016年12月31日出版

<http://kjtbc.periodicals.net.cn/>; KJTB.chinajournal.net.cn/

全 国 中 文 核 心 期 刊

中 国 科 技 核 心 期 刊

评价系统和数据库:

CNKI、CSTPC、GJFD、VIPC、EPS

E-mail:kjtbc@aliyun.com

目 次

· 数理科学和化学 ·

低缺陷石墨烯/UHMWPE纳米复合材料的制备、结构与导电性能研究

..... 王海平, 孟 竺, 郑爱爱, 卢铁梅, 徐喜连, 钟明强, 徐立新(1)

非交换复微分调控方程边值周期解存在特征分析 周志进, 吴秀碧(10)

分数阶广义积分-微分方程 Riesz 基的置信域估计 石业娇(14)

凸函数在数理经济学中的应用 陈晓雷, 陈秋涵(18)

· 地球科学 ·

浙西南冰雹天气雷电及大气电场活动规律研究 强玉华, 智协飞, 杨 磊(21)

浙西北银山银多金属矿床地质特征及 Rb-Sr 同位素研究 蔡雄翔, 杜 雄, 张志其, 钱俊锋(27)

宁波市气候变化特征及对空气质量的影响分析

..... 俞科爱,胡 晓,丁烨毅,胡 波,陈 磊,张晶晶,谢 华(32)

山西北部 M_l2.2 级地震空段与中强地震关系研究 吴昊昱,李 丽,刘瑞春,王 霞(38)

日本电离层频高图转换方法研究 黄光亮,陈 罂,倪彬彬,陈飞龙,李雅贤(42)

· 生物科学 ·

火焰南天竹高效稳定遗传转化体系的建立 贾思振,王媛花,王全智(47)

小球藻基因工程的研究进展及应用前景展望 吴丽娟,余志良,林祥志,娄素林,王昭凯(51)

· 医药、卫生 ·

“一带一路”战略视域下的中药国际化研究 任 虎,曹俊金(67)

基于光谱图像分析的白芷酒炖前后 4 种香豆素类成分含量测定 刘光炜,张 弼,陈开兵(62)

· 农业科学 ·

向日葵列当生物学特性的研究 郑喜清,王 靖,邸 娜,崔 超,王海伟(66)

寒地月季的观赏特性及景观配置 张天妹,车代弟(70)

家畜粪便与秸秆混合发酵沼气纯度影响因素研究 刘 畅,涂国平(75)

· 工业技术 ·

给水管网外源入侵体积的影响因素研究 金汉峰,俞亭超,邵 煜,张土乔(80)

柴油机共轨燃油喷射系统技术发展研究 赵志娟(84)

ADC12 铝合金退火处理后性能的分析 何 兵,覃 铭,韦荣生(89)

一种轮式移动平台的设计与控制系统分析 何 莉,陈玲玲(93)

电动汽车电池剩余电量百分比 SOC 的参数识别优化 吴静波,谢 辉(97)

空气幕系统在地铁车站与商城相连通道的应用与设计 赵 哲,林基深,伍尚华,梁 栋(101)

视觉物联网下的农业区域干旱自动调节系统设计 邓国斌,沈 萍(105)

风冷螺杆式制冷机组变负荷性能研究 秦黄辉(110)

建筑智能节水 DDC 控制系统设计 曹祥红,张 华,陈继斌(115)

重庆山区的建筑抗泥石流规划模型设计与实现 杨张维,吴同情,李 擎(120)

多尺度分割的高分辨率 GIS 影像建筑物提取模型 刘 静,黄庄巍(124)

代间混合的多速率网络编码研究 樊 旭,张国印,王 蕾(128)

云计算下的一种数据挖掘算法的研究 刘继华,强 庚(133)

物联网中的一种改进的 Leach 的数据融合路由协议的设计 杨小琴(138)

小波信号分层中的软阈值模糊性确定分界 张艳敏,庞帮艳(142)

多态蠕虫病毒差异性传播过程中特征的分析 张俊林(146)

痕量多组分可燃气体爆炸风险的图谱特征变化趋势识别 周作梅(151)

基于光流约束和光谱蒙板的空间变换运动模糊图像复原	杨斌(155)
基于惯性卡尔曼滤波的户外运动跟踪定位模型	修艳(159)
一种面向非规则数据的预取优化组合策略	黄艳,刘海燕(163)
基于双混沌的数字图像加密算法的研究	秦海玉,赵海燕,赵荷(169)
WSN 中的基于渔夫捕鱼的向量机的移动节点定位的研究	顾庆传(174)
一种基于能量消耗分簇算法在 WSN 中的研究	苗玥,白金牛(179)
RFID 网络中基于 PSO 算法的网络部署的研究	彭华,王用鑫(184)
一种金字塔存储算法在云计算数据库中的研究	解二虎(188)

· 交通运输 ·

发动机泄漏缓速器的功率调整能力分析	董颖,赵迎生(192)
爆炸冲击载荷下钢纤维混凝土 T 梁桥试验研究	彭胜,蔡路军,姜天华,杜刚(196)
汽车行驶过程中对车轮定位参数影响的研究	黄如君,张梅(200)
拱肋的不同宽跨比对拱桥屈曲分析的影响	林煌,邓通发,廖睿,汤红华(205)
图解悬索桥主塔施工关键技术	吴龙生,杨鼎宜,郑双琳,王继明,章程(209)

· 环境科学 ·

分形理论在厌氧氨氧化颗粒污泥床反应器性能研究中的应用	王志尧,陈伟锋,郑平(216)
基于 GIS 的干旱灾害风险评估与区划研究——以山东省潍坊市为例	辛高森,曾燕,邱新法,朱晓晨(221)
基于人体行为影响因子的煤矿安全控制模型	张西珠(228)
基于可持续发展的固原市水资源优化配置研究	刘勤,王德全(232)
重型压缩空气泡沫消防车在高层建筑火灾扑救中的应用研究	谢浩,金龙哲(236)

· 教育、科学 ·

基于因子分析的学习型组织模型的实证研究	崔珍珍,周晓梅,黄东安(242)
构建以就业为导向的实战课程体系研究——以电子商务专业为	陈杰(247)

BULLETIN OF SCIENCE AND TECHNOLOGY

Vol. 32 No. 12 Dec. 2016

CONTENTS

High-quality Graphene/UHMWPE Nanocomposite: Preparation, Structure and Electrical Performance	..... Wang Haiping, Meng Zhu, Zheng Aiai, Lu Tiemei, Xu Xilian, Zhong Minqiang, Xu Lixin(1)
Existence of Boundary Value Periodic Solution for Non Commutative Differential Control Equation	..... Zhou Zhijin, Wu Xiubi(10)
Confidence Region Estimation for Riesz Based on Fractional Order Generalized Integral Differential Equation	..... Shi Yejiao(14)
Research on the Application of Convex Function in Mathematical Economics	..... Chen Xiaolei, Chen Qiuhan(18)
Study on the Electric Field Activity Law of Hail in the Southwest of Zhejiang Province	..... Qiang Yuhua, Zhi Xiefei, Yang Lei(21)
The Geological Characteristics of Yinshan Silver-polymetallic Deposit and It's Rb-Sr Isotope Study in Northwest Zhejiang	..... Cai Xiongxiang, Du Xiong, Zhang Zhiqi, Qian Junfeng(27)
Analysis of Climate Change Characteristics and Its Influence on Air Quality in Ningbo	..... Yu Keai, Hu Xiao, Ding Yeyi, Hu Bo, Chen Lei, Zhang Jingjing, Xie Hua(32)
Research on Relationship Between ML2.2 Seismic Gap in Northern Shanxi and Moderate Earthquakes	..... Wu Haoyu, Li Li, Liu Ruichun, Wang Xia(38)
Research of Ionospheric Ionogram Conversion in Japan	..... Huang Guangliang, Chen Gang, Ni Binbin, Chen Feilong, Li Yaxian(42)
Establishment of High Efficiency Agrobacterium-mediated Transformation System of <i>Nandina domestica</i> ‘Fire Power’	..... Jia Sizhen, Wang Yuanhua, Wang Quanzhi(47)
Advances and Perspectives of Genetic Engineering in <i>Chlorella</i>	..... Wu Lijuan, Yu Zhiliang, Lin Xiangzhi, Lou Sulin, Wang Zhaokai(51)
TCM Internationalization Under the Belt and Road Initiatives	..... Ren Hu, Cao Junjin(57)
Measured Before and After Stew Four Kinds Coumarins Content Based Angelica Wine-spectral Image Analysis	..... Liu Guangwei, Zhang Tao, Chen Kaibing(62)
Study on Biological Characteristics of <i>Orobanchee Cumana</i>	..... Zheng Xiqing, Wang Jing, Di Na, Cui Chao, Wang Haiwei(66)
Ornamental Characteristic and Landscape Configuration of <i>Rosa Chinensis</i>	..... Zhang Tianshu, Che Daidi(70)

Livestock Manure Mixed with Straw Methane Fermentation Research to the Influential Factors of Purity	..... <i>Liu Chang, Tu Guoping(75)</i>
Influence Factors Analysis on Foreign Intrusion Volume in a Simulated Water Distribution System	..... <i>Jin Hanfeng, Yu Tingchao, Shao Yu, Zhang Tuqiao(80)</i>
Research on the Development of Diesel Common–Rail Fuel Injection System Based on Patent Map	..... <i>Zhao Zhijuan(84)</i>
Analysis on Mechanocal Property of ADC12 Aluminium After Annealing Treatment	..... <i>He Bing, Qin Ming, Wei Rongsheng(89)</i>
Design of a Wheeled Mobile Platform and Analysis of Its Control System	..... <i>He Li, Chen Lingling(93)</i>
Parameter Identification Optimization of Electric Vehicle Battery Management SOC	..... <i>Wu Jingbo, Xie Hui(97)</i>
Application and Design of Air Curtain System in the Connected Channel Between the Metro and Mall	..... <i>Zhao Zhe, Lin Jishen, Wu Shanghua, Liang Dong(101)</i>
Design of Agricultural Drought and Automatic Control System Under the Vision of the Internet of Things	..... <i>Deng Guobin, Shen Ping(105)</i>
Study on the Performance of Air-cooled Screw Chiller in Variable Load	..... <i>Qin Hungui(110)</i>
DDC Control System Design for Intelligent Water-saving Reduction in Buildings	..... <i>Cao Xianghong, Zhang Hua, Chen Jibin(115)</i>
Design and Implementation of Anti-debris Flow Planning Model for Chongqing Mountainous Area	..... <i>Yang Zhangwei, Wu Tongqing, Li Qing(120)</i>
Multiscale Image Segmentation Resolution GIS Model Building Extraction	..... <i>Liu Jing, Huang Zhuangwei(124)</i>
Research on Multi-rate Network Coding with Multi-generation Mixing	..... <i>Fan Xu, Zhang Guoyin, Wang Lei(128)</i>
Research into a Data Mining Algorithm in Cloud Computing	..... <i>Liu Jihua, Qiang Yan(133)</i>
Design of an Improved Leach Data Fusion Routing Protocol in the Internet of Things	..... <i>Yang Xiaoqin(138)</i>
Soft Threshold Fuzziness Determination in Wavelet Signal Stratification	..... <i>Zhang Yanmin, Pang Bangyan(142)</i>
Characteristic Analysis of Polymorphic Worm Differential Propagation	..... <i>Zhang Junlin(146)</i>
Trends Identify of Trace Multicomponent Combustible Gas Explosion Risk Map Features	..... <i>Zhou Zuomei(151)</i>
Spatially-varying Blurred Image Restoration Approach Based on Motion Blur Constraint and Spectral Matting	..... <i>Yang Bin(155)</i>
Tracking Model of Outdoor Sports Based on Inertial Kalman Filter	..... <i>Xiu Yan(159)</i>
The Optimized Grouping Strategy for Irregular Data Prefetching	..... <i>Huang Yan, Liu Haiyan(163)</i>
Research on the Digital Image Encryption Algorithm based on Double Chaos	..... <i>Qin Haiyu, Zhao Haiyan, Zhao He(169)</i>
Research on Support Vector Machine's Mobile Node Positioning Based on Fisherman's Fishing in WSN	..... <i>Gu Qingchuan(174)</i>
Clustering Algorithm Based on Energy Consumption in WSN	..... <i>Miao Yue, Bai Jinniu(179)</i>
Research of Network Deployment based on PSO Algorithm in RFID Network	..... <i>Peng Hua, Wang Yongxin(184)</i>
Research on a Pyramid Storage Algorithm in Cloud Computing Database	..... <i>Xie Erhu(188)</i>
Analysis of Power Adjustment Capability in Engine Bleeding Retarde	..... <i>Dong Ying, Zhao Yingsheng(192)</i>
Experimental Study Steel Fiber Reinforced Concrete T-Beam Bridge Under Explosion Load	..... <i>Peng Sheng, Cai Lu jun, Jiang Tianhua, Du Gang(196)</i>
Research on the Influence of Wheel Alignment Parameters in the Process of Automobile Driving	..... <i>Huang Rujun, Zhang Mei(200)</i>
The Effect on Analysis of Buckling of Arch Rib with Different width Span Ratio	..... <i>Lin Huang, Deng Tongfa, Liao Rui, Tang Honghua(205)</i>
Key Technology for Construction of Suspension Bridge Tower by Diagram	..... <i>Wu Longsheng, Yang Dingyi, Zheng Shuanglin, Wang Jiming(209)</i>

- The Applications of Fractal Theory in Anaerobic Ammonium Oxidation Granule Sludge Blanket Bioreactor**
..... Wang Zhiyao, Chen Weifeng, Zheng Ping(216)
- Risk Assessment and Zoning of Drought Disaster Based on GIS: A Case Study of Weifang City in Shandong Province**
..... Xin Gaosen, Zeng Yan, Qiu Xinfu, Zhu Xiaocheng(221)
- The Coal Mine Safety Control Model Based on Influence Factors of Human Behavior** Zhang Xizhu(228)
- Based on the Sustainable Development of Natural Guyuan City Optimal Allocation of Water Resources Research**
..... Liu Qin, Wang Deguan(232)
- Research on Application of Heavy Compressed Air Foam Truck in High-rise Building Fires** Xie Hao, Jin Longzhe(236)
- An Empirical Study on the Learning Organization Practices of Adult Education** Cui Zhenzhen, Zhou Xiaomei, Huang dong'an(242)
- Study on Construction of the Practice Course of Employment-oriented Curriculum System – Case Study of E-commerce Major** Chen Jie(247)

