

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

2020 年 5 月 第 36 卷 第 5 期

Vol.36 No.5 May. 2020

浙江省科学技术协会主办

Sponsored by Zhejiang Association for Science and Technology

ISSN 1001-7119



05 >

9 771001711127

中国 · 杭州

HANGZHOU CHINA

目 次

· 综述 ·

核糖体的组成、结构、功能和检测 郭磊艳,赵 旦,桂嘉烯,闻舒娴,郑 平(1)

· 数理科学和化学 ·

谱单元法在湍流数值模拟中的应用 刘 旭,闫 亭,包 艳(13)

基于柔性铰链加热结构的多物理场仿真 彭 羯(20)

· 地球科学 ·

浙东地区新近纪松散沉积层分布及其工程特性研究 张丹瑜,寿平山,朱智勇,黄 曼,符 励(24)

地热系统地热流体流动模型及勘查靶区预测——以桐庐县阁里村石窑坞矿区DR1地热井为例

..... 钱俊锋,毛昌伟,徐 波,何 钰,朱华雄,孟 羯,朱晓亚(30)

2007-2018年金华地区地闪密度特征分析 许洪泽,周 梅(36)

2012-2017年全国雷电灾害事故统计分析 田德宝,冯瑜骅,张雪慧,陈政豫(42)

基于浅层地震勘探的田庄断裂构造特征研究 韩晓飞,扈桂让,张 丽,史双双,董 斌(48)

德清县PM_{2.5}演变特征及其与气象因素关系的初步分析 路 明,沈 沉,嵇浩翔(57)

井冈山保护区植被NPP时空变化特征及与气候因子的关系 曾以平,万 春,苏 德,杨 巍,赵艳华,包 扬(63)

· 生物科学 ·

磷源对铁皮石斛原球茎中多糖积累的影响 朱星扬,韩 静,朱洁莹,贾 启,樊小宽,金磊磊,陈集双(71)

· 工业技术 ·

基于关键帧的视觉惯性定位算法 徐 玲,蔡 慧,郑恩辉,花江峰,刘 政,王谈谈(77)

基于ABAQUS的地下连续墙变形特性模拟与影响因素分析 李曦宇,陈建军,尹扬帆,丁云凯,张 晋(82)

基于改进模糊层次分析法的配电室状态评估 崔 毅,汪鹏君,王晶晶,李 刚,李伟铭(89)

地下增层支护体系既有支护重要性研究 李 赞,俞 峰,杨 勇,陈自海(95)

绿色屋面雨水径流水质影响因素研究 蒋 伟,王文韬,罗 珊,孙冬旭,单永体(102)

汽车检测项目不合格成因探析 冯小平,冯金可(107)

科技提升机场安检的效能 张 宙(112)

基于区块链技术的智能合约及电费结算机制研究 聂晓涛,杨光宇,陈 丹(116)

基于统计方法对云南地震灾情的分类分析 李亚鹏,樊奕青,张朝元(121)

· 环境科学 ·

夏秋过渡季东太湖水体光学特征时空变化及驱动分析

..... 余怀勇,李建华,杨昌涛,南 晶,王晓菲,王 昊,石思琦(126)

基于高压天然气装置的CO₂吸收动态模型与控制方法 汪秋婷,王德前(136)

· 教育、科学 ·

杭州市省级科技型中小企业创新能力研究 王 宏,赵 丽,严晨安(142)

浙江省高新技术企业发展研究及对策建议 潘 扬,吕月珍,胡 侠,杨 瑾(148)

期刊基本参数:CN33-1079/N*1985*12*16*152*zh*P*¥25.00*1250*24*2020-05

BULLETIN OF SCIENCE AND TECHNOLOGY

Vol. 36 No. 5 May. 2020

CONTENTS

Composition, Structure, Function and Detection of Ribosome	<i>Guo Leiyuan, Zhao Dan, Gui Jiaxi, Wen Shuxian, Zheng Ping</i> (1)
Application of Spectral Element Method in Numerical Simulation of Turbulence	<i>Liu Xu, Yan Ting, Bao Yan</i> (13)
Multiphysics Simulation Based on Flexible Hinge Heating Structure	<i>Peng Yao</i> (20)
Study on the Distribution and Characteristics of Neogene Loose Sediments in Eastern Zhejiang	<i>Zhang Danyu, Shou Pingshan, Zhu Zhiyong, Huang Man, Fu Xun</i> (24)
Analysis of Tectonic Fissure Zone-shaped Thermal Storage Geothermal Water in Zhejiang Area ——A Case Study of DR1 Geothermal Wells in Shiluanwu Mining Area, Langli Village, Tonglu Conuty	<i>Qian Junfeng, Mao Changwei, Xu Bo, He Yu, Zhu Huaxiong, Meng Yao, Zhu Xiaoya</i> (30)
Analysis on the Characteristics of Cloud-to-ground Lightning Density in Jinhua Area from 2007 to 2018	<i>Xu Hongze, Zhou Mei</i> (36)
Statistics Analysis of Lightning Disaster Accidents in China from 2012 to 2017	<i>Tian Debao, Feng Yuhua, Zhang Xuehui, Chen Zhengyu</i> (42)
Study on the Characteristics of Tianzhuang Fault Structure Based on Shallow Seismic Exploration	<i>Han Xiaofei, Hu Guirang, Zhang Li, Shi Shuangshuang, Dong Bin</i> (48)
Analysis of the Evolution Characteristics of PM2. 5 and Its Relationship with Meteorological Factors in Deqing	<i>Lu Ming, Shen Chen, Ji Haoxiang</i> (57)
Spatiotemporal Dynamics of Vegetation NPP in Jinggangshan National Nature Reserve and Its Relationship with Climate Factors	<i>Zeng Yiping, Wan Chun, Su De, Yang Wei, Zhao Yanhua, Bao Yang</i> (63)
Effects of Phosphorus on Accumulation of Polysaccharides in Protocorm of Dendrobium Officinale	<i>Zhu Xingyang, Han Jing, Zhu Jieying, Jia Qi, Fan Xiaokuan, Jin Leilei, Chen Jishuang</i> (71)
Keyframe-based Visual-inertial Localization Algorithm	<i>Xu Ling, Cai Hui, Zheng Enhui, Hua Jiangfeng, Liu Zheng, Wang Tantan</i> (77)
Deformation Characteristics Simulation and Influencing Factors Analysis of Diaphragm Wall Based on ABAQUS	<i>Li Xiyu, Chen Jianjun, Yi Jiangfan, Ding Yunkai, Zhang Jin</i> (82)
State Evaluation of Power Distribution Room Based on Improved Fuzzy Analytic Hierarchy Process	<i>Cui Yi, Wang Pengjun, Wang Jingjing, Li Gang, Li Weiming</i> (89)
Research on the Importance of Piles in the Retaining System of Underground Storey Supplement	<i>Li Yun, Yu Feng, Yang Yong, Chen Zihai</i> (95)
Study on Factors Affecting Water Quality of Green Roof Rainwater Runoff	<i>Jiang Wei, Wang Wentao, Luo Shan, Sun Dongxu, Shan Yongti</i> (102)
Analysis on The Causes of Unqualified Automobile Inspection Item	<i>Feng Xiaoping, Feng Jinke</i> (107)
Technologies Speed Up and Enhance Airport Security Check	<i>Zhang Zhou</i> (112)
Research on Intelligent Contract and Electricity Bill Settlement Mechanism Based on Block Chain Technology	<i>Nie Xiaotao, Yang Guangyu, Chen Dan</i> (116)
Classification and Analysis of Earthquake in Yunnan Province Based on Statistical Methods	<i>Li Yapeng, Fan Yiqing, Zhang Chaoyuan</i> (121)
The Temporal-spatial Dynamics and Driving Analysis of Water Optical Property in East Taihu Lake During Season Transition from Summer to Autumn	<i>Yu Huaiyong, Li Jianhua, Yang Changtao, Nan Jing, Wang Xiaofei, Wang Hao, Shi Siqu</i> (126)
Dynamic Model and Control Method of CO₂ Absorption Based on High Pressure Natural Gas Processing Unit	<i>Wang Qiuting, Wang Deqian</i> (136)
Research on Innovation Ability of Provincial Sci-tech Smes in Hangzhou	<i>Wang Hong, Zhao Li, Yan Chenan</i> (142)
Research on National High-tech Enterprises Development in Zhejiang and Corresponding Suggestions	<i>Pan Yang, Lv Yuezhen, Hu Xia, Yang Jin</i> (148)