

目次

· 材料科学 ·

硫化锌荧光表面分子印迹聚合物的制备与性能研究

..... 刘惠莲,翟天琦,王佳琳,魏茂彬(1)

花形 Fe₃O₄-Au 纳米复合材料的制备及催化性能研究

..... 刘洋,薛晓晶,陆佳宁,寇艺川,吴彤,杨景海(6)

木质素磺酸盐插层 Mn-Al 类水滑石的制备及其催化性能研究

..... 郎集会,孙可心,史越,张哲,吴思(11)

氟化铈纳米板的高压相变行为研究 王婧姝,陈香姝,巩蕾,李雨陶,吴桐(16)

氢氧化钠的高压拉曼散射研究 武晓鑫,张艳,胡廷静,张俊凯,马艳章(22)

由吡啶羧酸配体构筑的金属有机框架材料及其光学性能研究

..... 徐广娟,李佳,王丽,于小童,路蓉,许彦红(31)

· 数学 ·

基于岭回归和 Lasso 回归的螺纹钢期货价格实证分析 王纯杰,温丽男,马元嘉(36)

基于修正的 χ^2 -散度的不确定投资组合优化 王炜,包攀,毕天骄(42)

MLPG 法与配点法耦合求解地下水非均质承压稳定流问题

..... 周德亮,王宗慧,李跃(47)

在线社会网络用户影响力研究的文献计量分析 翟莉,孟丽新(53)

带有测量误差协变量和不可观测反应变量下的因果推断 单娜,张笑笑(62)

· 物理与信息技术科学 ·

点缺陷对波导的电场分布的调制

…… 吴向尧,刘 晗,屈春宏,马美玲,刘掌辉,王梦飞,王保亮,王艺洁,宋雨生,张晓茹(67)

置换通风加毛细管地板辐射空调的模拟研究 …………… 韦新东,陈晓乐(73)

基于 Jfinal 和 AngularJS 框架的图书馆微信服务平台的开发与研究

…………… 海 涛,张佳毅,王智迪,郭 健(78)

· 化学与环境科学 ·

铜纳米簇荧光探针高灵敏定量检测谷丙转氨酶

…………… 张 菲,陈文欣,张俊华,吴晓曼,冯子硕,刘 谦,李 妍(84)

严寒地区土壤源热泵系统土壤温度变化分析研究 …………… 朱 林,张 贺,杨金刚(89)

微(纳米)塑料对淡水生物的毒性效应 …………… 赵雪松,许 晴(93)

辽河流域吉林区域水质状况评价及变化特征分析 …………… 刘 浩,滕洪辉(100)

· 生命科学 ·

英那河细菌群落结构及其与环境因子的相关性研究

…………… 张恒庆,刘华健,刘静怡,张连宇,纪德钰(105)

榛子 *SBP* 基因家族鉴定及其系统进化和表达分析 …………… 张兴政,朱凯丽,程云清(114)

· 计算机科学 ·

一种基于 Unity 3D 的 VR 玻璃栈道制作技术 …………… 魏三强(121)

融合高斯混合模型和深度学习的目标跟踪 …………… 欧丰林,林淑彬(127)

· 地理科学 ·

扬花期冬小麦叶面积指数高光谱遥感反演研究 …… 姜海玲,赵艺源,李 耀,郑世欣(135)

CONTENTS

Preparation and properties study of molecularly imprinted polymer on the fluorescent surface of zinc sulfide *LIU Hui-lian, ZHAI Tian-qi, WANG Jia-lin, et al.* (5)

Preparation and study of catalytic properties of flower-like Fe₃O₄-Au nanocomposites *LIU Yang, XUE Xiao-jing, LU Jia-ning, et al.* (10)

Effect on catalytic performance of Lignin sulfonate intercalated with Mn-Al LDHs *LANG Ji-hui, SUN Ke-xin, SHI Yue, et al.* (15)

High-pressure phase transformation behaviors of SrF₂ nanoplates ... *WANG Jing-shu, CHEN Xiang-shan, GONG Lei, et al.* (21)

Raman scattering studies of sodium hydroxide under high pressure *WU Xiao-xin, ZHANG Yan, HU Ting-jing, et al.* (30)

Metal-organic framework materials constructed by pyridine carboxylic ligands and their optical properties *XU Guang-juan, LI Jia, WANG Li, et al.* (35)

Empirical analysis of rebar futures price based on ridge regression and Lasso regression *WANG Chun-jie, WEN Li-nan, MA Yuan-jia*(41)

Uncertain portfolio optimization based on modified χ^2 -divergence *WANG Wei, BAO Pan, BI Tian-jiao*(46)

Coupling MLPG method and collocation method for solving heterogeneous pressurized steady flow of ground water *ZHOU De-liang, WANG Zong-hui, LI Yue*(52)

A bibliometric study on research of user influence in online social networks *ZHAI Li, MENG Li-xin*(61)

Causal inference with error-prone covariates and an unmeasured response variable *SHAN Na, ZHANG Xiao-xiao*(66)

Themodulation of point defect on electric field distribution of waveguide *WU Xiang-yao, LIU Han, QU Chun-hong, et al.* (72)

Simulation study of displacement ventilation and capillary floor radiation air conditioning *WEI Xin-dong, CHEN Xiao-le*(77)

Development and research of library wechat service platform based on Jfinal and AngularJS framework *HAI Tao, ZHANG Jia-yi, WANG Zhi-di, et al.* (83)

Sensitive quantitative detection of alanine aminotransferase using fluorescent probe based on copper nanoclusters *ZHANG Fei, CHEN Wen-xin, ZHANG Jun-hua, et al.* (88)

Analysis of soil temperature change in soil-source heat pumps system in freezing areas *ZHU Lin, ZHANG He, YANG Jin-gang*(92)

Toxic effects of microplastics and nanoplastics on freshwater organisms *ZHAO Xue-song, XU Qing*(99)

The evaluation and trend of water quality of Liao River in Jilin area *LIU Hao, TENG Hong-hui*(104)

Community structure of bacteria in Yingna River and its correlation with environmental factors *ZHANG Heng-qing, LIU Hua-jian, LIU Jing-yi, et al.* (113)

Identification, systematic evolution and expression analysis of *SBP* gene family in hazelnut *ZHANG Xing-zheng, ZHU Kai-li, CHENG Yun-qing*(120)

A production technology of VR glass plank road based on Unity 3D *WEI San-qiang*(126)

Integrating Gaussian mixture model with deep learning for visual object tracking *OU Feng-lin, LIN Shu-bin*(134)

Study on the inversion of winter wheat leaf area index during flowering period based on hyperspectral remote sensing *JIANG Hai-ling, ZHAO Yi-yuan, LI Yao, et al.* (140)