

ISSN 2096-644X
CN 43-1549/N
CODEN XDZXEW

湘潭大學學報

(**自然科學版**)

Journal of Xiangtan University
(Natural Science Edition)



- 中國科技核心期刊
- 中國期刊方阵雙百期刊
- 中國高校優秀科技期刊

Vol. 44 No. 1

2022

目 次

韶峰栏目

- 求解无约束函数局部鞍点的数值算法····· 吕义勇,赵文杰,周光明(1)
液相剥离二维 TiS₂ 及其光电化学光探测性能研究····· 蔡 嘉,廖言默,祁 祥(11)

基础理论

- 桂林地区 TEC 起伏与 L 波段闪烁强度的比较研究····· 李 贝,徐 良(20)
基于明胶的抗溶胀双网络水凝胶的制备及性能研究····· 伍绍吉,袁尘瑜,汤建新,等(31)
手性亚磷酸酯铈络合物催化的喹啉的不对称氢化反应····· 丰 检,肖祥辉,王大寒,等(41)
县域级城乡全要素融合的规划实施路径研究
——广州市增城区为例····· 邓毛颖,曹凯滨,焦汉科(53)

工程技术

- 生态环境效应所引导的滨水空间规划路径研究····· 王 婧,韩云平(63)
焦化废水反渗透膜污染特性研究····· 袁 意,魏天祥,黄增显,等(73)
高速磁浮列车相对位置传感器测试平台上位机软件设计····· 邓 鹏,王明乾(82)
光电理疗仪电路故障排除及光辐射污染控制····· 安文博,李 明(89)
基于深度学习的水电站工作票存取管控体系构建····· 张建军(99)
高温高压空气管道散热特性模拟分析····· 肖书博,廖池珍,张 滢,等(107)
在役跨海系杆拱桥结构安全的可拓预警模型····· 李 涛,黄亚娥,钱 亚(116)

编辑校对:夏金玉 胡 丁 龙顺潮 王文强

JOURNAL OF XIANGTAN UNIVERSITY (NATURAL SCIENCE EDITION)

【Vol .44 No .1 Feb .2021】

CONTENTS

Numerical algorithm for solving local saddle points of unconstrained functions	LYU Yiyong ,ZHAO Wenjie ,ZHOU Guangming(1)
Liquid-phase exfoliation of two-dimensional TiS ₂ and its photodetection performances based on photoelectrochemical device	CAI Jia ,LIAO Yanmo ,QI Xiang(11)
Comparative study on TEC fluctuation and L-band fluctuation intensity in Guilin	LI Bei ,XU Liang(20)
Preparation and properties of gelatin-based anti-swelling double network hydrogel	WU Shaoji ,YUAN Chenyu ,TANG Jianxin ,et al(31)
Asymmetric hydrogenation of quinolines catalyzed by phosphoramidites iridium complexes	FENG Jian ,XIAO Xianghui ,WANG Dahan ,et al(41)
Research on Guangzhou Zengcheng construction planning based on the integration of county -level urban-rural total factors	DENG Maoying ,CAO Kaibin ,JIAO Hanke(53)
Research on the effective planning path of urban waterfront area guided by ecological environment effect	WANG Jing ,HAN Yunping(63)
Study on the foulant characteristics of reverse osmosis membrane in coking wastewater	YUAN Yi ,WEI Tianxiang ,HUANG Zengxian ,et al(73)
Upper computer software design of relative position sensor test platform for high speed maglev train	DENG Peng ,WANG Mingqian(82)
Photoelectric physiotherapy circuit troubleshooting and light radiation pollution control	AN Wenbo ,LI Ming(89)
Construction of hydropower station work ticket access control system based on deep learning	ZHANG Jianjun(99)
Simulation analysis of heat dissipation characteristics of high temperature and high pressure air pipeline	XIAO Shubo ,LIAO Chizhen ,ZHANG Ying ,et al(107)
Study on an early-warning model based on extensive sets for the structure safety of ICTB	LI Tao ,HUANG Ya'e ,QIAN Ya(116)