



中国期刊方阵双效期刊  
中文核心期刊  
中国科技核心期刊  
RCCSE中国核心学术期刊  
中国科技论文统计源期刊  
中国科学引文数据库（核心库）源刊  
中国学术期刊影响因子年报统计源期刊

ISSN 1000-811X  
CN 61-1097/P  
CODEN ZAIHE2

# 灾害学

Journal of Catastrophology  
ZAIHAIXUE

2019 第34卷 第4期  
Vol. 34 No. 4

ISSN 1000-811X



9 771000 811194

陕西省地震局主办

# 灾 害 学

(季刊)

2019-10-20

第34卷

第4期(总第134期)

目 次

## [理论·思路与争鸣]

- 风险元理论研究 ..... 唐彦东, 于 汐, 李潇昂, 等(1)  
黑龙江省玉米生长期冷害与干旱混合发生对产量的影响 ..... 姜丽霞, 吕佳佳, 曲辉辉, 等(8)  
基于多级模糊数学的矿山地质灾害指标体系设计 ..... 王 继(14)  
我国公路交通气象灾害风险隐患特征分析 ..... 张晓美, 吕明辉, 王 毅, 等(19)  
基于心理承压的灾害可承受风险评估 ..... 段佳奇, 陈毅文, 杨 莎(25)  
灰岩区降雨型滑坡软弱夹层的三轴试验强度研究 ..... 甘建军(30)  
灾后复杂地形区域的测量测绘模型设计 ..... 林元茂, 李 建, 韩 立(35)  
基于熵权-集对分析模型的重大危险源安全等级评价研究 ..... 刘惠临, 麻金继(41)  
雷击灾害下多级串联闪络保护器断线故障控制方法研究 ..... 丛日立, 安 博, 王晓艳, 等(47)  
基于多元统计分析的火灾灾后抢险物资配送模型研究 ..... 王颖俐(53)  
基于主成分分析和支持向量机的苏锡常地区地裂缝危险性预测 ..... 袁 颖, 张天亮(57)  
洪水泥石流等自然灾害对旅游景区的破坏作用研究 ..... 蔡 影, 蒋梅英(64)  
气象灾害模型在电网运检业务中的应用研究 ..... 宋慧娟, 吴 琼, 李红云, 等(68)  
地下商业空间灾害突发期间应急救援仿真模型 ..... 陆秋琴, 赵洪艳, 黄光球(73)

## [预测·防治与对策]

- Attabad 滑坡堵江次生灾害对中巴公路的影响 ..... 陈华勇, 陈晓清, 赵万玉, 等(81)  
基于水土耦合物理机制的区域滑坡概率预报技术研究 ..... 徐 辉, 张少杰, 黎 力, 等(86)  
基于核密度估计的清代中国自然灾害时空分布特征 ..... 肖凌波(92)  
多模式集成分级降水概率及落区预报试验 ..... 吴振玲, 张 楠, 徐 媛, 等(100)  
三峡库区三门洞滑坡潜在涌浪风险研究 ..... 霍志涛, 黄波林, 王鲁琦, 等(107)  
中国西南地区时雨量分布特征与时月变化 ..... 潘建华(113)  
中国灾害性冰冻天气日数气候演变空间分异特征(1961-2016年) ..... 孔 锋(121)

## [案例·经验与教训]

- 2018年8月两次登陆北上台风移向的先兆信号分析 ..... 郑丽娜, 夏金鼎, 王俊喜(131)  
“天鸽”台风后澳门特区政府防灾减灾规划及其启示 ..... 王江波, 陈 晨, 苟爱萍(137)  
陕西省矿山地形地貌景观损毁现状及修复技术 ..... 李 成, 彭 捷, 陈建平, 等(143)  
云南省橡胶树白粉病流行天气适宜度预报研究 ..... 陈 瑶, 朱 勇, 张加云, 等(148)

## [资料·综述与信息]

- 泥石流灾害经济损失研究综述 ..... 何树红, 姜 毅, 计晓林(153)  
自然灾害情景下社区韧性研究评述 ..... 杨丽娇, 蒋新宇, 张继权(159)  
城市避难场所相关研究进展与展望 ..... 陈 晨, 程 林, 修春亮(165)

## [应急·风险与管理]

- 自然灾害防治综合立法研究:定位、理念与制度 ..... 李一行, 刘兴业(172)  
汶川地震后幸存人员心理危机干预方法研究 ..... 于红军(176)  
重大自然灾害后心理干预行为教育对策 ..... 李晓同(181)  
震后医护人员对受害人创伤应激恢复建模分析 ..... 刘 爽, 汤亚箐, 范冬萍, 等(185)  
试论国家救灾资金的精准风险管理方法 ..... 赵郁园(191)

## [探索·青年与灾害]

- 基于灾害全过程的公众对于气象防灾减灾信息的需求分析  
——基于78 287份调查问卷的实证 ..... 谭 玲, 叶汶华, 吴先华, 等(195)  
基于激励理论视角的防灾减灾研究回顾与展望 ..... 巫天豪, 瞿国方(203)  
基于随机森林的旱灾损失模型构建与应用——以河南省雨养小麦为例 ..... 侯陈瑶, 朱秀芳, 孙丹一, 等(210)  
华南台风灾害的风险熵-极限学习机预测模型研究 ..... 卢耀健, 刘合香, 王 萌(216)  
汶川地震强震区震后10年泥石流活动特征遥感动态分析  
——以平武县石坎河流域为例 ..... 赵 聪, 梁京涛, 谢忠胜, 等(222)  
基于FY-4 AGRI与Himawari-8 AHI的干旱灾害监测及旱情分析  
——以2018年河北省秋季干旱为例 ..... 李亚男, 于文金, 谢 涛(228)

# JOURNAL OF CATASTROPOLOGY

(Quarterly)

Vol. 34

No. 4 (Total No. 134)

2019-10-20

## CONTENTS

Reachon Risk Metatheory .....	TANG Yandong, YU Xi, LI Xiaoang, et al(1)
Effect of Hybrid Occurrence of Cold Damage and Drought on Maize Yield in Heilongjiang Province .....	JINAG Lixia, LV Jiajia, QU Huihui, et al(6)
Design of Mine Geological Hazard Index System Based on Multi-level Fuzzy Mathematics .....	WANG Ji(14)
Analysis of the Risk Characteristics of Highway Traffic Meteorological Disasters in China .....	ZHANG Xiaomei, LYU Minghui, WANG Yi, et al(19)
Risk Assessment of Disaster Bearability Based on Psychological Pressure .....	DUAN Jiaqi, CHEN Yiwen, YANG Sha(25)
Triaxial Strength Test of Weak Interlayer of Rainfall Landslide in Limestone Area .....	GAN Jianjun(30)
Design of Survey and Mapping Model for Complex Topographic Areas after Disaster .....	LIN Yuanmao, LI Jian, HAN Li(35)
Safety Levels Evaluation of Major Hazard Sources based on Entropy Weight-Set Pair Analysis Model .....	LIU Huilin, MA Jinji(41)
Study on the Control Method of Break-line Fault of Multi-stage Series Flashover Protector under Lightning Disaster .....	CONG Rili, AN Bo, WANG Xiaoyan, et al(47)
Research on Emergency Material Distribution Model after Fire Disaster Based on Multivariate Statistical Analysis .....	WANG Yingli(53)
Prediction of Ground Fissures Risk in Suxichang Area Based on Principal Component Analysis and Support Vector Machine .....	YUAN Ying and ZHANG Tianliang(57)
Damage of Natural Disasters such as Flood and Debris Flow to Tourist Scenic Spots .....	CAI Ying, JIANG Meiying(64)
Research on the Application of Meteorological Disaster Model in Power Grid Transportation Inspection Business .....	SONG Huijuan, WU Qiong, LI Hongyun, et al(68)
Emergency Rescue Simulation Model of Underground Commercial Space during Disaster Emergency .....	LU Qiuqin, ZHAO Hongyan, HUANG Guangqiu(73)
The Effects of Secondary Disasters of Attabad Landslide Blocking River on China-Pakistan Highway .....	CHEN Huayong, CHEN Xiaoqing, ZHAO Wanyu, et al(81)
Research on Physics-based Probabilistic Forecasting Technology of Regional Landslide .....	XU hui, ZHANG Shaojie, LI li, et al(86)
Spatio-temporal Distribution of Natural Disasters in China during 1644-1911 based on Kernel Density Estimation .....	XIAO Lingbo(92)
Multimodal Integrated Graded Precipitation Probability and Falling Area Prediction Experiments .....	WU Zhenling, ZHANG Nan, XU Shu, et al(100)
Potential Surge Risk of Sanmendong Landslide in Three Gorges Reservoir Area .....	HUO Zhitao, HUANG Bolin, WANG Luqi, et al(107)
Distribution Characteristics and Variation of Hourly Precipitation in Southwest China .....	PAN Jianhua(113)
Spatial Differentiation Characteristics of Climate Evolution of Disastrous Freezing Weather Days in China from 1961 to 2016 .....	KONG Feng(121)
Analysis of the Precursor Signals of Typhoon Moving North on Two Landings in August 2018 .....	ZHENG Lina, XIA Jinding, WANG Junxi(131)
Disaster Prevention and Mitigation Planning of Macao SAR Government after Typhoon Hato Skypigeon and Its Enlightenment .....	WANG Jiangbo, CHEN Chen, GOU Aiping(137)
Current Situation of Landscape Damage and Rehabilitation Technology of Mine Topography in Shaanxi Province .....	LI Cheng, PENG Jie, CHEN Jianping, et al(143)
Study on Dynamic Forecast of the Suitability Degree of Rubber Powdery Mildew Weather Condition in Yunnan Province .....	CHEN Yao, ZHU Yong, ZHANG Jiayun, et al(148)
A Review of Studies on Economic Losses Caused by Debris Flow Disasters .....	HE Shuhong, JIANG Yi, JI Xiaolin(153)
A Review on Community Resilience to Natural Disaster .....	YANG Lijiao, JIANG Xinyu, ZHANG Jiquan(159)
Research Progress and Prospect of Urban Shelters .....	CHEN Chen, CHENG Lin, XIU Chunliang(165)
Research on Comprehensive Legislation of Natural Disaster Prevention and Control: Orientation, Concept and System .....	LI Yihang, LIU Xingye(172)
Intervention Methods of Psychological Crisis of Survivors after Wenchuan Earthquake .....	YU Hongjun(176)
Educational Strategies of Psychological Intervention Behavior after Major Natural Disasters .....	LI Xiaotong(181)
Modeling and Analysis of Post-earthquake Medical Personnel on Victim's Traumatic Stress Recovery .....	LIU Shuang, TANG Yaqing, FAN Dongping, et al(185)
On Precise Risk Control Method of National Disaster Relief Funds .....	ZHAO Yuyuan(191)
Public Demand for Meteorological Disaster Prevention and Mitigation Information Based on the Whole Process of Disasters—Empirical Study Based on 78287 Questionnaires .....	TAN Ling, YE Wenhua, WU Xianhua, et al(195)
Review and Prospect of Disaster Prevention and Mitigation Research Based on the Perspective of Incentive Theory .....	WU Tianhao, ZHAI Guofang(203)
Establishment and Application of Drought Loss Model Based on Random Forest—Taking Rain-fed Wheat in Henan Province as an Example .....	HOU Chenyao, ZHU Xiufang, SUN Danyi, et al(210)
Research on Extreme Learning Machine—Risk Entropy Prediction Model of Typhoon Disaster in South China .....	LU Yaojian, LIU Hexiang, WANG Meng(216)
Remote Sensing Dynamic Analysis of Debris Flow Activity Characteristics in Strong Earthquake Area of Wenchuan Earthquake 10 Years after Earthquake—A Case Study of Shikan River Watershed of Pingwu County .....	ZHAO Cong, LIANG Jingtao, XIE Zhongsheng, et al(222)
Drought Disaster Monitoring and Drought Analysis Based on FY-4 AGRI and Himawari-8 AHI—A Case Study of the autumn drought in Hebei Province in 2018 .....	LI Yanan, YU Wenjin, XIE Tao, et al(228)