

Journal of Mountain Science (Monthly, Started in 2004)

Volume 20 Number 3 March 2023

Contents

Mountain Hazards

585-606 TRONTI, Gianluca; VERGARI, Francesca; BOLLATI, Irene Maria; BELISARIO, Filippo; DEL MONTE, Maurizio; PELFINI, Manuela; FREDI, Paola

From landslide characterization to nature reserve management: The “Scialimata Grande di Torre Alfina” landslide Geosite (Central Apennines, Italy)

607-623 ZHANG, Jian-qiang; YANG, Zong-ji; MENG, Qing-kai; WANG, Jiao; HU, Kai-heng; GE, Yong-gang; SU, Feng-huan; ZHAO, Bo; ZHANG, Bo; JIANG, Ning; HUANG, Yu; MING, Zai-yang; ZHANG, Yi-fan; LIU, Zhen-xing; WU, Chun-hao; ZHOU, Wen-tao; LIANG, Xin-yue; SUN, Yu-qing; YANG, Lian-bing; YAO, Hong-kun; FENG, Pei-hua; LIU, Jia-li

Distribution patterns of landslides triggered by the 2022 MS 6.8 Luding earthquake, Sichuan, China

624-636 XIONG, Jiang; CHEN, Hua-yong; ZENG, Lu; SU, Feng-huan; GONG, Ling-feng; TANG, Chen-xiao

Coseismic landslide sediment increased by the “9.5” Luding earthquake, Sichuan, China

637-656 ZHANG, Ming-yue; HAN, Yang; YANG, Ping; WANG, Cong-ling

Landslide displacement prediction based on optimized empirical mode decomposition and deep bidirectional long short-term memory network

657-669 JIN, Jia-le; CUI, Yu-long; XU, Chong; ZHENG, Jun; MIAO, Hai-bo

Application of logistic regression model for hazard assessment of landslides caused by the 2012 Yiliang Ms 5.7 earthquake in Yunnan Province, China

670-687 QIU, Wen; LI, Yan-long; WEN, Li-feng; WANG, Jing; YIN, Qiao-gang

Refined mathematical model for the breaching of concrete-face sand-gravel dams due to overtopping failure

688-704 JIAN, Fu-xian; CAI, Zheng-yin; GUO, Wan-li

Laboratory-scale investigation of the material distribution characteristics of landslide dams in U-shaped valleys

Mountain Environment

705-723 JAHAN, Akhtar; DAR, Tanveer; KUMAR, Sudhir; RAI, Nachiketa

Comprehensive isotopic characterization of the hydrological processes of the Indus river basin (IRB): A comparison between Upper Indus Basin (UIB) and Lower Indus Basin (LIB)

724-737 SUN, Zhao; WANG, Yi-fu; DING, Zhi-dan; LIANG, Rui-ting; XIE, Yun-hong; LI, Rui; LI, Hao-wei; PAN, Lei; SUN, Yu-jun

Individual tree segmentation and biomass estimation based on UAV Digital aerial photograph

738-749 XIE, Chang-wei; YANG, Gui-qian; WANG, Wu; ZHANG, Yu-xin; LIU, Wen-hui; LIU, Guang-yue; WU, Ji-chun; PANG, Qiang-qiang

Lakes in the Qinghai-Tibet Plateau are conducive to regional permafrost development

750-764 ZOU, Lan; BAI, Yin-ping; HUANG, Jing; XIAO, De-rong; YANG, Gang

Soil pH and dissolved organic carbon shape microbial communities in wetlands with two different vegetation types in Changdu area, Tibet

765-778 AI, Xing-mei; LI, Yu; XIE, Huan; ZHAO, Cai-bao

Adaptive mechanisms of *Ardisia crenata* var. *bicolor* along an elevational gradient on Gaoligong Mountain, Southwest China

779-791 YANG, Yong-sheng; ZHANG Fa-wei; XIE, Xian-rong; WANG, Jun-bang; LI Ying-nian; HUANG, Xiao-tao; LI, Hui-ting; ZHOU, Hua-kun

Effects of long-term grazing exclusion on vegetation structure, soil water holding capacity, carbon and nitrogen sequestration capacity in an alpine meadow on the Tibetan Plateau

792-809 ZHOU, Zhong-fa; WANG, Ling-yu; CHEN, Quan; LUO, Jian-cheng; ZHAO, Xin; ZHANG, Shu; ZHANG, Wen-hui; LIAO, Juan; LYU, Zhi-jun

Abandoned land identification in karst mountain area based on time series SAR characteristics at geo-parcels scale

810-820 JOSHI, Praveen; PRAKASH, Prem; PUROHIT, Vijay Kant

Assessing anthropogenic pressure and threats on *Paeonia emodi* Wall. ex Royle habitats in Garhwal Himalaya

Mountain Development

821-833 ZENG, Jie; BIAN, Jiao-jiao; CHEN, Wan-xu

Impact of slope farmland use change on ecosystem services value in China, 2000-2020

Geological Engineering

834-844 SUN, Xiao-ming; CUI, Li; ZHANG, Yong; WANG, Lei; JIANG, Ming

Strength characteristics of rock anchored by NPR bolt with different preloads

845-858 HUANG, Man; CHEN, Xuan-nan; HONG, Chen-jie; LIU, Dan; LUO, Zhan-you; DU, Shi-gui; WU, Zao-sheng

Shear behavior of two-order morphology in rock joints

859-872 JIAO, Feng-yu; WANG, Hui-dong; LI, Tuo; CHEN, Yun; MA, Guo-wei

Multi-domain equivalent method for prediction of elastic modulus of complex fractured rock mass

873-885 ZHANG, Lin; LI, Tong-lu; LI, Ji-heng; LIANG, Wei; CHEN, Cun-li

Water infiltration and soil-water characteristics of compacted loess under applied vertical stress

Erratum

886-888 BAO, Yi-ding; CHEN, Jian-ping; SU, Li-jun; ZHOU Xin; YIN, Cheng-shan

Erratum to: Rigid block characteristics on subaerial landslide-tsunamis using a 3D coupled Eulerian-Lagrangian model

889-890 DAS, Suresh; SHARMA, Milap Chand; MURARI, Madhav Krishna; NÜSSER, Marcus; SCHMIDT, Susanne

Erratum to: Half-a-century (1971–2020) of glacier shrinkage and climatic variability in the Bhaga basin, western Himalaya

Cover photo taken by Gianluca TRONTI

Serial parameters: CN51-1668/X*2004*M*A4*306*cn*P*200*20*2023-3

Homepage: <http://jms.imde.ac.cn>

E-mail: jms@imde.ac.cn

Tel: 86-28-85252044

Fulltexts can be accessed at <http://link.springer.com/journal/11629> or <http://www.cnki.net>