

JOURNAL OF MOUNTAIN SCIENCE Vol.20, 2002

CONTENTS

No.1

- Morphology of Basin of Debris Flow (In English) LI Yong, HU Kai-heng, CUI Peng *et al.* (1)
- A Slighting Tache in Field of Forest Hydrology Research——Hydrological Effects of Coarse Woody Debris(CWD)
..... ZHAO YU-tao, Yu Xin-xiao, CHENG Gen-wei(18)
- The Analyse on Spatial-Temporal Feature of Land Use and Land Cover under the Defferent Background of Soil Erosion
..... WANG Si-Yuan, LIU Ji-Yuan, ZHANG Zeng-xiang *et al.* (25)
- Model of Minimum Energy Dissipation in Evolution of Longitudinal Profile of Polongzangbu Biver JIANG Zhong-xin(31)
- Tree Photosynthesis on Alpine Timberline and Its Relationships to Environmental Factors in the Eastern Part of Temperate China
..... LIU Hong-yan, GU Hong-tao, TANG Zhi-yao(36)
- Loess Slump and Gully Slope Expanding Model of Luochuan Plateau in shaanbei GUO Li-yu, GAN Zhi-mao, SU Hui-min(41)
- Preliminary Experiment to Rhelolgical Characters of Viscous Debris flowe, Jiangjia Ravine Yunnan, China
..... WANG Yu-yi, JAN Chian-deng, LI Chang-zhi *et al.* (46)
- A Study on the Relationships Between Neotectonism and Geological Hazards WANG Shuai, WANG Shen-fa, YU Jian-qiang(52)
- The Hazards Along Xinjiang-Tibet Highway in Xinjiang YANG Kun, MA Dongtao, CUI Peng(58)
- An Approach on Snow Hazards and Their Countermeasures Along Sino-Nepalese Highway..... MA Dong-tao, CUI Peng, WANG Zhong-hua(63)
- A Study on 50a Land Use and Cover Change of Watershed of Upper Minjiang River FAN Hong(69)
- REE Geochemistry of Hypergenesis in Basalt——Take the Distributing Region of Northern Hainan Island as the example
..... HUANG Cheng-min, GONG Zi-tong(74)
- Economic Estimation of Ecosystem Services of Natural Forests in Western Sichuan, China
..... SHI Pei-li, LI Wen-hua, HE Wei-ming *et al.* (79)
- On the Development Prospects and Way of the Economy in Hillyarea TANG Shu-yun(84)
- Ecological Reestablishment of Riparian beach and Functions of Dike Protection at Foot of Dabai Mountain in Anhui Provinces
..... ZHANG Jiang-chun, SHI Zhi-gang, PENG Bu-zhuo(89)
- A Study on the Synthetic Effect of Pastureland shelterbelt DUAN Wen-biao, CHEN Li-xin, ZHAO Yu-shen(96)
- Model of Debris Flow Forecasting Under Different Loss Factors WEI Fang-qiang, HU Kai-heng, CUI Peng *et al.* (102)
- The Study on the Visualization of Three-dimensional Simulation System of Flood Routing
..... YUAN Yan-bin, YUAN Xiao-hui, ZHANG Yong-chuan *et al.* (107)
- Spatial Variation of Soil Water and Nutrient Content on Loess Slope in Shanbei China
..... LU Jin-wei, LI Zhan-bin, ZHENG Liang-yong *et al.* (111)
- Research on Start-up of Loose Landslide in Lab CHEN Hong-kai, TANG Hong-mei(115)
- Seepage Mechanism Analysis of Fly Ash Dam LIN Li-xiang, WU Yong(121)
- A Simple Discussion on the Formation Conditions of Harmful Gases in Deep Lying Long Tunne
..... REN Guang-ming, ZHAO Zhi-xiang, NIE De-xing *et al.* (125)

No.2

- Study on Mire Development and Palaeoenvironment Change since 9.0 ka B.P. in the East Part of the Xiaoxinganling Mountains
..... YANG Yong-xing, WANG Shi-Yan(134)
- Potential Evaporation of Subalpine Forest Zone in the East Slope of Mt. Congga

- ZHOU Yang-ming, Cheng Gen-wei, YANG Qing-wei(140)
The Image and Landscape Designs of Ecology and Agritourism Valley——based on the practical study of western mountain area in Beijing
..... WANG Yun-Cai, CUO Huan-cheng(149)
Quantity Character Analysis and Fractal Model Study on the Mosaic Structure of the Landscape in Mountainous Area
..... YUE Wen-ze, XU Jian-hua, AI Nan-shan(156)
Features of Microstructure of Diagnostic Horizons and Lower Categorical Classification of Stagnic Anthrosols in Chengdu Plain
..... HE Yu-rong, HUANG Chen-gmin, ZHOU Hong-yi(163)
The Series Identification and Classification and Mapping References Based on Different Classification Systems for Soils in Baihuashan,
Beijing Region. ZHANG Feng-rong, WANG Yin-chuan, LI Hong, *et al.* (169)
Regionalized Soil Formation Features and Their Application in Basic Soil Classification and Soil Quality Assessment
..... ZHANG Gan-lin, DU Guo-hua, GONG Zi-tong(175)
Analysis of Soil Erosion Environment Background in China ZOU Ya-rong, ZHAO xiao-li, ZHANG Zeng-xiang, *et al.* (181)
The Research of Species Diversity after the Vegetation Restoration in Loess Hilly Region
..... WANG Guo-liang, LIU Guo-bin, HOU Xi-lu(187)
Plant Rehabilitation on Degraded Land at Debris-prone Dry Valley SHEN You-xin, ZHANG Yan-dong, LIU Wen-yao(193)
Rehabilitation and Degradation for Subalpine Coniferous Forest on the Upper Reaches of Dadu River of Eastern Tibetan Plateau
..... BAO Wei-Kai, ZHANG Yi-li, WANG Qian *et al.* (198)
Systematic Analyzing of Socio-economic Development and Anti-poverty Strategies of Five Reservoirs Area in Debieshan
..... LIANG Xiu-cun, DING Deng-shan, GE Xiang-dong(205)
Horton's Order Ratios of Water Course Network of Drainage Basin and their Fractal Characters in the Loess Plateau
..... JIANG Yong-qing, SHAO Ming-an, WANG Wan-zhong *et al.* (211)
Fuzzy Comprehensive Evaluation on Disastrous Degree of Mine Debris Flow—Taking Shenfu-Dongsheng Coal Field as Example
..... ZHANG Li-ping, TANG Ke-li(217)
Application of Infiltration-and-Saturation-Excess Runoff Model in Evaluating the Benefits of Water Reduction by Soil and Water
Conservation Practices LIU Xian-zhao, HUANG Ming-bin, LI Yu-shan(222)
Application of Huffman Tree Based on the Information of Remote Sensing for Investigating Soil Resource
..... SHA Jin-ming, LI Xian-mei(227)
Study on the Tundra Wetland Resources in Changbai Mountain and Their Sustainable Utilization BAI Jun-hong, YU Guo-ying(231)
Study on the Classification of the Gully and Its Harness and Development Patterns in Hilly Semi-arid Area of China
..... GAO Peng, LIU Zuo-xin, DING Fu-jun *et al.* (235)
Eco-environment Construction and Sustainable Development in Limestone Mountain Region of Guangdong
..... HUANG Jing-guo, CHEN Tong-qing(240)
Energy and Material Analysis on *Pinus koraiensis* and *Fraxinus mandshurica* in Changbai Mountains
..... ZHANG Yu, QIN Li-jie, WU Dong-hui *et al.* (245)
Relationship between the Slope Slides and Precipitation in Chongqing MA li, ZENG Xiang-Ping, XIANG Bo(249)
A Quantitative Analysis on Priority of Conservation of the National Protected Plants in Hualongshan Mountain FU Zhi-jun(252)
Study on the Space Characteristic and Adaptability Development of Chongqing Commercial Center LU Tao, YANG Pei-feng(255)

No.3

- Analysis on Channel Scouring and Silting and Self-adjusting in Midstream and Downstream Reaches of Changjiang River
..... SHI Guo-yu, XU Quan-xi, CHEN Ze-fang(265)
Study on the Coordinating Development of Ethnic Culture and Natural Environment in Subtropical Mountain Areas——A Case of Cultural
Landscape of Hani Terrace in Yuanyang County JIAO Ynan-mei, XIAO Du-ning, CHENG Guo-dong(271)
The Division Between Subtropical Zone and Warm Temperate Zone According to the Compositions and Properties of Soil Humus
..... MA Jian-hua, HAN Jin-xian, ZHAO Qing-liang(276)
Spatial Relationship of Soil Erosion and Its Geographical Environment Background in China
..... ZHAO Xiao-li, ZHANG Zeng-xiang, ZHOU Quan-bin *et al.* (283)

- The Mathematical Models on Soil Factor of Water and Soil Loss in China ZHANG Ai-guo, LI Rui, YANG Qin-ke(289)
- Study on Soil Erosion Process and Evolution of Soil Physicochemistry Characteristics on Sloping Farmland
..... HUANG Shao-yan, ZHA Xuan(295)
- Research on Harmonious Development of Montane Environment and Economy in the Headstream of Pearl River Drainage Economic-belt
..... FANG Chuang-lin, GAO Qun(301)
- Warning on Mountain Complex Ecosystem in the Three Gorges Reservoir Area LIU Shao-quan, CHEN Guo-jie, CHEN Zhi-jian(306)
- The Primary Research of Mountain Tourism Innovation System on the Fringe of Metropolis——A Study of Shenzhen City
..... DING Huanfeng, CHEN Lie(312)
- A Primary Study on Phosphorus Adsorption of Forest Soils in Xizhang Watershed, Baoshan, Yunnan LI Ming-rui, SHA Li-qing(318)
- The Soil Seed Banks in Karst Mountains as Affected by Land Use LI Yang-bin, WEI Chao-fu, LI Xian-yuan *et al.* (324)
- Studies on the Nutrient Circulation and Energy of the Serious Degraded Community after Closing of Hillsides and Management to Facilitate
Afforestation XIE Jin-sheng, YANG Yu-sheng, CHEN Guang-shui *et al.* (330)
- Study on the Comprehensive Benefits of Harvesting and Skidding Operation in Xutting Area
..... ZHOU Xin-nian, SHENG Bao-gui, YOU Ming-Xing *et al.* (337)
- Study on the Tillage Pattern of Preserving Soil and Drought-resistant in the Dry-farmland in the Central Hill of Sichuan Basin
..... PANG Xue-yong, LIU Shi-quan, ZHANG Shi-rong *et al.* (342)
- Studies on Grassland Resource and Rational Utilization in the Upper Reaches of Minjiang River
..... ZHANG Jian-ping, YE Yan-qiong, FAN Hong(347)
- A Preliminary Probe on Frailty Delimitation of Mountain Ecological Environment in Qianxi County
..... LUO Xin-zheng, ZHU Tan, XU He(353)
- Analysis on the Regional Characteristics of Sand-dust Aerosol Over Tarim Basin(In English) GAO Wei-dong, WEI Wen-shou(354)
- A Method of Spatial Simulating of Temperature Based Digital Elevation Model(DEM) in Mountain Area
..... ZHANG Hong-liang, NI Shao-xiang, DENG Zi-wang *et al.* (364)
- Discussion of Using Quantitative Indexes to Study Rock Mass Weathering ZUO San-sheng, REN Guang-ming(369)
- Nonlinear Dynamic Analysis on the Evolvement of the No.2 Landslide on Jindong Town, Guangyuan City
..... LIU Hong, DENG Rong-gui, ZHANG Zhuo-yuan(374)
- Ecotourist Resources and Its Districts in Luya Mountain CHENG Zhan-hong, ZHANG jin-tun, SHANGGUAN Tie-liang(379)
- The Cause and Features of Mountain Torrent Disaster in Hunan Province LI Jing-bao, MAO De-hua, XU Shu-hui(384)

No. 4

- Seasonal and Spatial Variation of Evapotranspiration in the Mountains of Southwest China Axel Thomas(393)
- A Study of the General Development Model For Mountains in West China——Taking the Bayanbulak Region of the Mt. Tianshan as an Example
..... ZHANG Bai-ping, CHEN Xiao-dong, ERDOWLET ISLAMKHAN *et al.* (400)
- Study on the Bryophytes Flora of Matoushan Nature Reserve, Jiangxi Province JI Meng-cheng, CHEN Yong-jun, WANG Jing(410)
- The Investigation and Prevention Work Planning of Tai-Shan Landslide Disaster in the Tseng-Wen Reservoir Buffer Zone
..... HSU Chung-Li, LEE Jin-Lai(420)
- Study on the REE Capacity, Intensity and the Influence Factors of Lateritic Red Earth and Red Earth in Fujian Mountains
..... TANG Nan-qi(426)
- The Effect of Runoff at the Stage of Soil Particle Dispersion on the Sloping Surface ZHAO Xiao-guang, SHI Hui(431)
- Comparison of the Natural Vertical Zones Between Mt. Namjagbarwa and Mt. Tomur XU Hui, PENG Bu-zhuo(437)
- Engineering of Changing Cultivation into Tree Planting and Its Effects to the Development of Rural Economics in Western Sichuan, China
..... LIN Bo, LIU Qing, YOU Xing *et al.* (444)
- The Research on the Exploitation of Featured Agriculture in Hot the Hot and Dry Valley of Yunnan
..... HE Yong-Bin, ZHU Tong, LU Pei-ze(449)
- Influence, Protection and Construction to Mountain Area Environment by Construction of Nanning-Kunming Railway
..... JIANG Zhong-gui, YANG Chao-qing(455)
- The Distributing and Subarea Character of the Seismic Landslides in Sichuan YANG tao, DENG rong-gui, LIU xiao-li(460)

- features and Evaluation of Glaciation Landscape Resources in Heishui County, Sichuan Province
 ZHANG Wen-jing, LI Ming, WU Zhi-gen *et al.* (465)
- Review on the Studies of Chinese Main Soil Erosion and Sediment Yield Models TANG Zheng-hong, CAI Qiang-guo (475)
- Design and Realization of the Test System on Mechanical Effect of Yunnan Pine Root and Soil
 LIU Yue-Ming, ZHANG Yun-Wei ZHOU Yue (479)
- A Preliminary Study of Dynamic-System Establishment For Soil Erosion Inspect in Yunnan Mountains
 ZHOU Yue, WAN Yen, WANG Zhu-qing *et al.* (484)
- The Synthetically Sussy Juice of the Slope Stability With Multi-Deformation Belt of Jinlongshan KONG Ji-ming (488)
- Stability Study of Spatial Virescence Engineering of Slope ZHANG Yong-xing, WANG Gui-lin DU Tai-liang (492)
- Studies on the Climate Changes in the Northern and the Southern Regions of the Qinling Mountains and Correlated Analysis Between
 Climate Changes and El Nino/La Nina Phenomenon During the Recent 40 Years YIN Shu-yan (496)
- Stability Evaluation of Three Dimensional Limit Equilibrium on Yudonghe Landslide
 WANG Hua-bin, XU Rui-chun JIANG Qing-hui (500)
- The Cause and Precaution on Calamity of Befalling Mythical Flood Dragon LI Xu-dong, WAN Xu-cai, LI Sheng-feng *et al.* (504)
- Application of Radon Measurement to the Study of regional Tectonic Stability WANG Yun-sheng (508)

No.5

- Distribution, Accumulation Rate of Peat in the Changbaishan Mountains and Climate Change in Holocene
 ZHAO Hong-yan, LENG Xue-tian, WANG Sheng-zhong (518)
- Calculating Analysis of the Lunan Stone Forest Form WANG Zai-gao, YANG Ming-de, LIANG Hong *et al.* (525)
- Preliminary Analysis on Settlement Space of Mountainous Villages in China XU Jian (530)
- Study on Market Competition State and Its Transference of the Mountain Tourism in Cold-week LI Jing-yi (535)
- An Approach on Constructing Ecological Defence of the Upper Reaches of the Yangtze River Basin CHEN Guo-jie (540)
- Growth Dynamic and Ecological Parameters of Dominant Trees for Sub-alpine Forest in Hengduan Mountain System
 CHENG Gen-wei, LUO Ji (547)
- A Study on the Soil Carbon Storage of Some Land Use Types in Heshan, Guangdong, China
 LI Yue-lin, PENG Shao-lin, ZHAO Ping, *et al.* (552)
- The Role of Soil Moisture-Energy Distribution and Melting-Freezing Processes on Seasonal Shift in Tibetan Plateau
 YANG Meixue, YAO Tandong, HE Yuanqing (558)
- Sunshine Hours Modeling and Spa-temporal Variation Analysis Based on DEM in Mountainous Area——Take Mentougou mountain in west Beijing
 as the example CHEN Hua, SUN Dan-Feng, DUAN Zeng-Qing *et al.* (563)
- The Comparison of Three Case Study Area on Landscape Structure of Lancang River Basin in Yunnan Province
 GAN Shu, HE Da-ming, DANG Cheng-lin (569)
- Leaching and Weathering Effects of Simulated Acid Rain on Four Types of Mountain Soils in Fujin, China
 FAN Hou-bao, LIN De-xi (577)
- Monitoring and Mapping Soil Landscape in Southeast Mountains of China by GIS SHA Jin-ming, LI Xiao-mei, SHI Zhou *et al.* (582)
- A Study on Function and Value of Vegetation Water Conservation on Weibei Plateau ... JIAO Cai-xia, SUN Gen-nian, REN Zhi-yuan (588)
- Analysis of Increases in Crop Production and Labor Productivity by Terracing of Sloping Fields in Three Counties of Shanxi and
 Gansu Provinces ZHANG Xin-bao, WANG Zheng-qiu, XU Hang *et al.* (593)
- Environmental Features of Hilly Slope Land of Red Soil in South China and the Sustainable Utilization XIAO Hui-lin (599)
- Several Models for Converting ¹³⁷Cs Measurements to Estimating Soil Erosion Rates and Reliability of Hypothesis
 ZHENG Yong-chun, WANG Shi-jie (605)
- A Study on the Soil Water Characteristics of Populus Hebeensis Plantation on Northern Loess Plateau
 LI Hong-jian, WANG Meng-ben, CHAI Bao-feng (610)
- Risk Analysis of He-Ping-Gou Land Slide ZHAO Qi-hua, PENG She-qin, SUN Jun (615)
- Study on Landslide Damming of River in Upper of Minjiang River CHAI He-jun, LIU Han-chao (620)
- Controlling Landslide of the Langjiu's Thermoelectricity Factory in Guling County, Sichuan Province

- CHEN Xiao-qing, LI De-ji, CUI Peng(627)
- Study for the Destroy Principle and Model of the Yunnan Pine's Lateral Root-soil Friction Bond
- ZHANG Yun-wei, LIU Yue-ming, ZHOU Yue(631)
- Application of Displacement Monitoring in Study on Space-time Movement of Landslide
- JIN Xiao-guang, WANG Lan-sheng, LI Xiao-hong(635)
- A Discriminating Model of Matter-Element and Extension for Desertification Assessment
- WANG Xiao-dan, ZHONG Xiang-hao, FAN Jian-rong(640)

No.6

- Review of the Mountain Research Progress in China in Recent 20 Years and Prospect in the New Century ZHONG Xiang-hao(659)
- Digital Spectra of Altitudinal Belts and Their Hierarchical System ZHANG Bai-ping, YAO Yong-hui, MO Sheng-go *et al.* (665)
- The Spatial Analysis of the Pattern for Vegetation Resume and Reconstruct in West China
- XIE Gao-di, YU Gui-rui, LENG Yun-fa, *et al.* (672)
- Study on the Interaction of Agricultural Landscape-belt in the North Slope of Qilian Mountain's East Segment
- WANG Ai-min, LIU Yu(679)
- A Comparative Study on Difference of Microclimate Between South Facing and North Facing Slope of the Upper
- Reaches of Mingjiang River in Rainy Season ZHANG Yi-ping, GE Zai-wei, LIU Yu-hong, *et al.* (685)
- Discussion on the Value of World Heritage for Jiajin Mountains Giant Panda Habitat of Sichuan
- CHEN Fu-bin, ZHAO Yong-tao, LAN Li-bo(694)
- Landform Evolution and Soil Erosion on Zhouyuan During Human History Period SANG Guang-shu, GAN Zhi-mao, YUE Da-peng(700)
- Functional Assessment of Live-stock Husbandry Ecosystems in Nakchu Prefecture LI Xiang-mei(706)
- The Environmental Effect about the Building of Cultural Interest in Zhangjiajie Spot and It's Controlling Model QUAN Hua(711)
- A Study on Land Consolidation And Utilization Of The Water-Level-Fluctuating Zone in the Three Gorges Reservoir
- A Case Study of Kaixian County, Chongqing City TU Jian-jun, Chen Zhi-jian, Chen Guo-jie, *et al.* (717)
- The Change of the Sediment Delivery Ratio from the Slope and Water – collected Plot in the Gull Region of loess Plateau
- ZHAO Xiao-guang SUI Hui(722)
- Dynamic Characteristic on Space-time of Soil Water of Main Vegetation in Qilian Mountains
- NIU Yun, ZHANG Hong-bin, ZHANG Xue-long, *et al.* (726)
- A Study of Landscape Patterns in the Karst Mountainous Area Using RS and GIS
- LU Yuan, HUA Cui, ZHOU Xing(731)
- GIS Based Landslide CF Multi-variable Regression Model and Its Application
- LAN Heng-xing, WU Fa-quan, WANG Si-jing(737)
- Glacial and Rainstorm Debris-flow in Peilong Gully and Possibility in Its Blocking Main River
- CHEN Nin-sheng, CHEN Rui(742)
- The Sliding Mechanism and Treatment Measure of Longdanxi Landslide in Erlang Mountain
- LIU Xiao-li, ZHOU De-pei(747)
- Evaluation for Soil Fertility in the Typical Region of Upper Reaches of the Yangtse River by Using SOTER
- ZHOU Hong-yi, He Yu-rong, Zhang Bao-hua(751)
- Environmental Effects of Ecotourism in Bita Lake Natural Reserve, Northwestern Yunnan
- YANG Gui-hua, WEN Chuan-hao, WANG Yue-hua(756)
- The Research on the Protection of Landslide Geological Remains Resource in Xi'an Cuihua Mountain
- WU Cheng-ji, MENG Cai-ping(760)
- Study on the Technology of Skidding Operation of Artificial Forest in Mountainous Regions Regions ZHANG Zheng-xiong(764)
- On the Influence of Regional Features upon Regional Research and Development LUO Gao-yuan(768)
- "Journal of Mountain Science"(Vol.20,2002)Contents V ~ IX