

## 《山地学报》第 21 卷 (2003) 总目录

## 第 1 期

中国西部山地可持续发展的思考 .....	唐亚, 孙辉, 谢嘉穗, 等(1)
西藏自治区农牧业和农牧区经济结构战略性调整探讨 .....	钟祥浩(9)
“涵化”与岷江上游民族文化多样性 .....	吴宁, 晏兆丽, 罗鹏, 等(16)
岷江干旱河谷三种主要灌丛地上生物量的分布规律 .....	刘国华, 张浩瑜, 张育新, 等(24)
中国降雨侵蚀力空间变化特征 .....	章文波, 谢云, 刘宝元(33)
土地利用对岩溶山地土壤质量性状的影响 .....	李阳兵, 高明, 魏朝富, 等(41)
青藏高原高寒草地生态系统服务价值评估 .....	谢高地, 鲁春霞, 肖玉, 等(50)
川中丘陵区农业生态系统的演替 .....	朱波, 高美荣, 刘刚才, 等(56)
山西关帝山森林上限附近植被的性质与空间格局 .....	田军, 刘鸿雁, 田育红, 等(63)
长白山森林植被的生态气候学指标 .....	靳英华, 吴正方(68)
中亚热带天然常绿阔叶林下不同母质的土壤质量性状 .....	吴蔚东, 张桃林, 高超, 等(73)
黄泥河自然保护区老白山南坡植被垂直带谱及其特点 .....	卜兆君, 王升忠, 郎惠卿, 等(80)
三峡库区山地生态系统优化调控 .....	陈治谏, 刘邵权, 廖晓勇, 等(85)
山地城市西昌城区景观体系建设 .....	方一平, 石原润(90)
层状岩质边坡的屈曲破坏分析 .....	黄洪波, 符文熹, 尚岳全, 等(96)
溪洛渡水电站地下厂房岩体结构特征及围岩分类 .....	王明华, 冯文凯, 刘汉超, 等(101)
黄土高原坡地单株植物下的微地形研究 .....	宋述军, 李辉霞, 张建国(106)
基于 GIS 的土壤地理分形特征 .....	沙晋明, 李小梅(110)
福建中亚热带天然阔叶林理想结构探讨 .....	黄清麟, 李志明, 郑群瑞(116)
三江并流区居民点空间分布规律 .....	张军, 倪绍祥, 于文静, 等(121)

## 第 2 期

广西岩溶植被自然分布规律及对岩溶生态恢复重建的意义 .....	李先琨, 苏宗明, 吕仕洪, 等(129)
基于 GIS 的黄河上游龙羊峡库区生态环境遥感监测研究 .....	曾永年, 冯兆东, 曹广超(140)
干旱半干旱区山地土壤水分动态变化 .....	何其华, 何永华, 包维楷(149)
干旱区森林水源涵养生态服务功能研究进展 .....	赵传燕, 冯兆东, 刘勇(157)
岷江上游毛榛、辽东栎灌丛及 3 种人工幼林土壤种子库的比较 .....	刘文胜, 曹敏, 唐勇(162)
海南省五指山土壤中的重金属元素含量 .....	廖金凤(169)
山前洪积扇面小城镇城镇化过程与区域环境变化关系初探 .....	李鸣骥, 何彤慧, 璩向宁(173)
中国丹霞地貌的南北差异及其旅游价值 .....	周学军(180)
基于水资源可持续利用的流域产业结构分析 .....	张文国, 杨志峰, 伊锋, 等(187)
渭干河流域水资源及其水文特征分析 .....	满苏尔·沙比提, 玉素甫江·如素力, 阿布拉江·苏来曼(195)
紫色土经济林栽培技术 .....	邓白罗, 谭振辉(201)
云南西庄河流域主要栽培作物的农业气候资源分析 .....	艾夕辉, 林海, 范立张, 等(210)
罗坝街沟泥石流特征分析 .....	第宝锋, 陈宁生, 谢万银, 等(216)
粘性泥石流残留层的形成及减阻作用 .....	张军, 吴积善, 游勇, 等(223)
川藏公路拉月滑坡的块状破坏特征 .....	孔纪名, 张小刚, 强巴(228)
209 国道许家湾滑坡的成因及治理对策 .....	张季如, 李明海, 尹光辉(234)
GPS、GIS 技术在西庄河流域滑坡灾害研究中的应用 .....	高富, 艾夕辉, 段尚彪, 等(239)
岩石中间主应力效应的理论分析 .....	徐德欣(246)

数字高程模型地形描述误差的量化模拟 .....	张勇, 汤国安, 彭村 (252)
-------------------------	-------------------

第 3 期

青海海北高寒草甸五种植被生物量及环境条件比较 .....	李英年, 赵新全, 王勤学, 等 (257)
北京西部山地景观生态整治与景观规划 .....	王云才, 郭焕成 (265)
基于遥感的北京山区植被覆盖景观格局动态分析 .....	李晓琴, 孙丹峰, 张凤荣 (272)
贡嘎山东坡亚高山林区土壤的微形态特征 .....	何毓蓉, 张保华, 周红艺, 等 (281)
贡嘎山垂直带林分凋落物及其理化特征 .....	罗辑, 程根伟, 陈斌如, 等 (287)
亚热带喀斯特山区的生态系统特征和恢复途径 .....	周游游, 唐晓春 (293)
33 年生福建柏人工林碳库与碳吸存 .....	何宗明, 李丽红, 王义祥 (298)
清末民初人类活动对东川森林破坏的定量评估 .....	周麟 (304)
中国大陆山系、断层系与水系的三维数及其关系 .....	朱晓华, 蔡运龙, 王建 (311)
胶茶人工群落在改善山地土壤生态环境上的作用 .....	汪汇海, 李德厚 (318)
基于生态足迹模型的山区生态经济协调发展定量评估 .....	王书华, 王忠静 (324)
山地农村社会经济缓慢发展的实证分析——以河南省上河村为例 .....	乔家君 (331)
西藏定结县草地资源与畜牧业可持续发展 .....	叶延琼, 杨忠, 第宝峰, 等 (337)
西藏拉萨地区生态环境建设的社会经济措施 .....	李利锋, 郑度 (342)
旱地紫色土团聚体特征的指标比较 .....	骆东奇, 侯春霞, 魏朝富, 等 (348)
神府东胜煤田开发中人为泥石流发育现状及其分布特征 .....	王文龙, 李占斌, 张平仓 (354)
灰色关联度法在泥石流活动性评价中的应用 .....	邹翔, 崔鹏, 韦方强, 等 (360)
软弱层带对似层状结构岩体强度参数的影响 .....	胡卸文 (365)
典型滑坡的研究方法 .....	乔建平, 赵宇, 陈永波 (369)
InSAR 技术在地形测量和地质灾害研究中的应用 .....	邓辉, 黄润秋 (373)

第 4 期

MTCLIM 模型系列研究报告(1): 温度估算方法在中国亚热带山地的有效性验证 .....	李海涛, 沈文清, 夏军 (385)
MTCLIM 模型系列研究报告(2): 湿度估算方法在中国亚热带山地的有效性验证 .....	李海涛, 沈文清, 夏军 (395)
基于水土流失防治的云南金沙江流域土地利用生态安全格局初探 .....	杨子生, Liang Luohui, 王云鹏 (402)
基于地球空间信息技术的山地景观生态学 .....	郭冻, 余世孝 (410)
广州白云山风景区植被景观空间关联分析 .....	汪永华, 陈北光 (416)
贵州省低纬山地气候变化趋势 .....	吉廷艳 (422)
青海省五道梁地层剖面晚第三系沉积物与古土壤辨析 .....	黄成敏, 王成善, 李亚林, 等 (428)
中国山区经济发展的区域差异 .....	陈国阶, 周后珍 (435)
四川少数民族自治区域旅游开发与贫困缓解 .....	何景明, 李辉霞, 何毓成, 等 (442)
我国山地城市的数字化建设与研究 .....	周均清, 黄光宇 (449)
川滇藏三江流域生态环境功能区建设目标及影响预测 .....	李勇, 程根伟 (456)
低丘红壤深层水分的 CASCADE 模型应用与管理 .....	景元书, 张斌, 赵其国, 等 (461)
湘北红壤坡地雨水过程的水土流失及其影响 .....	谢小立, 王凯荣 (466)
整地对栗钙土物理性质和杨树人工林苗木生长的影响 .....	段文标, 陈立新, 孙龙 (473)
紫色母岩不同粒级风化物钾素形态分配特征 .....	游翔, 朱波 (482)
粘性泥石流残留层与泥深的关系分析 .....	吴积善, 张军, 程尊兰, 等 (487)
宽级配床沙起动规律的实验研究 .....	晋明红 (493)
南充市区第四纪沉积物特征及工程对策 .....	苏培东, 秦启荣 (498)
钻孔灌注桩体内注浆补缺探讨 .....	冯文凯, 王明华, 刘汉超, 等 (503)
基于 BP 神经网络和回归分析的隧洞塌方高度预测模型 .....	谭光杰, 董孝璧, 尹显科 (507)
高山林线植物的光合作用——与刘鸿雁等先生商榷 .....	罗辑 (511)

## 第 5 期

陇中半干旱区生态环境恢复重建与农牧业发展仿真研究 .....	张汉雄, 上官周平(513)
多维植被信息系统及其应用前景 .....	戴小华, 余世孝(521)
浙江黄岩富山地区古崩落地貌发育机制 .....	申洪源, 朱诚, 唐云松, 等(529)
MTCLIM 模型系列研究报告(3): 辐射估算方法在我国亚热带山地的有效性验证 .....	李海涛, 夏军, 沈文清, 等(537)
MTCLIM 模型系列研究报告(4): 辐射估算方法在我国南方亚热带山地的改进 .....	李海涛, 夏军, 沈文清, 等(542)
伊洛河流域的土地覆盖与景观动态分析 .....	钱乐祥, 丁圣彦, 秦奋(552)
青藏公路铁路沿线生态系统特征及道路修建对其影响 .....	陈辉, 李双成, 郑度(559)
滇西北亚高山针叶林、硬叶栎类林的树种多样性 .....	于洋, 曹敏, 刘文胜(568)
济南市南部山区小流域景观格局分析 .....	秦艳红, 王立红, 赵红兵(576)
南水北调西线工程调水区地质灾害问题 .....	马东涛, 崔鹏, 陈书涛, 等(582)
叠溪地震区龙池岸坡中埋藏古沟槽的空间分布特征 .....	许向宁, 王兰生(589)
川藏公路典型溜砂坡形成机理与整治 .....	阙云, 王成华, 张小刚(595)
云南新平 2002-08-14 特大滑坡泥石流流灾害及防治对策 .....	陈晓清, 韦方强, 崔鹏, 等(599)
细沟侵蚀中泥沙含量及其粘粒流失量的试验 .....	夏卫生, 雷廷武, 张晴雯, 等(605)
坡面侵蚀水沙流时间变化特征的模拟实验 .....	王文龙, 莫翼翔, 雷阿林, 等(610)
中国水蚀区土壤可蚀性指数诺模图的制作与查用 .....	张爱国, 陕永杰, 景小元(615)
滑坡地段隧道变形整治中抗滑桩的设计方法 .....	陶志平, 周德培(620)
台湾崩落地调查研究方法综述 .....	李锦育(624)

## 第 6 期

中国南方红土古环境重建中存在的几个问题 .....	冯志刚, 王世杰(641)
不同距离带上旅游植被景观的特征差异 .....	程占红, 张金屯(647)
长白山野生经济植物中 4 种微量元素的含量与变异因素 .....	崔晓阳, 宋金凤, 张韞(653)
岷江上游典型油松人工幼林的生态环境效应 .....	包维楷, 乔永康, 陈庆恒(662)
丹霞地貌概念讨论 .....	刘尚仁, 刘瑞华(669)
福建省崩岗侵蚀与治理模式探讨 .....	阮伏水(675)
高山增水效应及其水资源意义 .....	丁贤荣(681)
浙江丽水山地蕨类植物区系 .....	朱圣潮(686)
川西米亚罗亚高山地区云杉林群落结构分析 .....	刘 庆, 尹华军, 吴 彦(695)
山地城镇土地利用的经济生态位分析及持续发展——以重庆市为例 .....	秦建成, 高明(702)
滇东喀斯特山地土壤种子及其分布特征 .....	沈有信, 张平, 蔡光丽, 等(707)
从蒋家沟泥石流阵流看泥石流堆积 .....	李泳, 姚寿福, 胡凯衡, 等(712)
典型冰湖溃决型泥石流形成机制分析 .....	程尊兰, 朱平一, 宫怡文(716)
319 国道涪陵至彭水沿线滑坡发育特征 .....	白云峰, 周德培(721)
流团模型在泥石流危险度分区中的应用 .....	胡凯衡, 韦方强, 何易平, 等(726)
川藏公路龙胆溪 1 <sup>#</sup> 滑坡的演变 .....	张晓燕(731)
植物特征与某滑坡坝形成时间和稳定性关系 .....	刘惠军, 段志刚, 崔银祥, 等(736)
三峡库岸城区滑坡治理与沿江公路建设一体化模式——以重庆万州清泉路滑坡为例 .....	陈洪凯, 唐红梅(739)
蒋家沟高含沙水流泥沙特性与泥石流滩地的改良 .....	王道杰, 崔鹏, 朱波, 等(745)
岷江上游桃关沟泥石流特性与工程治理 .....	王全才, 刘希林, 孔纪名, 等(752)
川西北高原若尔盖草地沙化及湿地萎缩动态遥感监测 .....	雍国玮, 石承苍, 邱鹏飞(758)
甘肃河西山地土壤系统分类 .....	齐善忠, 肖洪浪, 罗芳(763)
《山区生态产业的开发与组织研究》评析 .....	冯海燕(775)
《山地学报》第 21 卷(2003) 总目次 .....	(777)

## JOURNAL OF MOUNTAIN SCIENCE(Vol. 21, 2003)

## CONTENTS

## No. 1

- Sustainable Mountain Development in West China; Some Emerging Issues ..... TANG Ya, SUN Hui, XIE Jia-sui *et al.* (8)
- Study of Strategical Regulation of Economic Structure of the Agriculture and the Animal Husbandry, and the  
Agricultural and Pastoral Areas in the Tibet Autonomous Region ..... ZHONG Xian-hao(15)
- Acculturation and Diversity of Ethnic Cultures on the Upper Minjiang River ..... WU Ning, YAN Zhao-li, LUO Peng *et al.* (23)
- Distribution Regulation of Aboveground Biomass of Three Main Shrub Types on the Dry Valley of Minjiang River  
..... LIU Guo-hua, ZHANG Jie-yu, ZHANG Yu-xin *et al.* (32)
- Spatial Distribution of Rainfall Erosivity in China ..... ZHANG Wen-bo, XIE Yun, LIU Bao-yuan(40)
- Effects of Land Use on Soil Quality in Karst Hilly Area ..... LI Yang-bin, GAO Ming, WEI Chao-fu *et al.* (49)
- The Economic Evaluation of Grassland Ecosystem Services in Qinghai-Tibet Plateau  
..... XIE Gao-di, LU Chun-xia, XIAO Yu *et al.* (55)
- Evolution of Agro-ecosystem in the Hilly Area of the Central Sichuan Basin  
..... ZHU Bo, GAO Mei-rong, LIU Gang-cai *et al.* (62)
- Characteristics and Spatial Patterns of Vegetation on the Upper Forest Boundary on Mt. Guandi, Shanxi Province  
..... TIAN Jun, LIU Hong-yan, TIAN Yir-hong *et al.* (67)
- Eco-climatic Study on Forest Vegetation in Changbai Mountain ..... JIN Ying-hui, WU Zheng-fang(72)
- Study on the Soil Quality of Soils Formed From Two Kinds of Parent Material Under Mid Sub-tropic Primary  
Broad-leaved Forest ..... WU Wei-ding, ZHANG Tao-lin, GAO Cao *et al.* (79)
- Vegetation Vertical Zone Spectrum and Its Features on Southern Slope of Laobai Mountain in Huangnihe Nature Reserve  
..... BU Zhao-jun, WANG Sheng-zhong, LANG Hui-qing *et al.* (84)
- Optimum Adjustment on the Mountain Ecosystem in the TGP Area  
..... CHEN Zhi-jian, LUI Shao-quan, LIAO Xiao-yong *et al.* (89)
- Upland City Landscape System Construction: A Case Study Based on Xichang, Sichuan Province  
..... FANG Yi-ping, Hiroshi Ishihara(95)
- Analysis of Buckling Yielding Rupture of Stratified Rock Slopes  
..... HUANG Hong-bo, FU Wen-xi, SHANG Yue-quan *et al.* (100)
- A Study of Rock Mass Structure Feature and Surrounding Rock Ranking for Xiluodu Hydroelectric Power Station  
..... WANG Ming-hua, FENG Wen-kai, LIU Han-chao *et al.* (105)
- Microtopographic Structures Study of Individual Plants on Loess Plateau ..... SONG Shu-jun, LI Hui-xia, ZHANG Jia-guo(109)
- Research on Fractal Geometry of Soil Geographical Environment Based on GIS ..... SHA Jin-ming, LI Xiao-mei(115)
- A Discussion on the Ideal Structure of Natural Broad-leaved Forest in the Mid-subtropical Zone of Fujian Province  
..... HUANG Qing-lin, LI Zhi-ming, ZHENG Qun-ni(120)
- A Quantitative Study on the Spatial Distribution Pattern of Human Settlement in Three River Parallel Running Region  
..... ZHANG Jun, NI Shao-xiang, YU Wen-jing *et al.* (125)

## No. 2

- The Spatial Pattern of Natural Vegetation in the Karst Regions of Guangxi and the Ecological Significance for  
Ecosystem Rehabilitation and Reconstruction ..... LI Xian-kun, SU Zong-ming, LU Shi-hong *et al.* (139)
- Detection of Ecological Environment Around Longyongxia Reservoir, the Upper Reach of the Yellow River by  
Remote Sensing and GIS ..... ZENG Yong-nian, FENG Zhao-dong, and CAO Guang-chao(148)
- Research on Dynamics of Soil Moisture in Arid and Semiarid Mountainous Areas

- ..... HE Qi-hua, HE Yong-hua, and BAO Wei-kai(156)
- Study on One of Ecological Services of Forest Ecosystem in Arid Region Water Resource Conservation  
..... ZHAO Chuan-yan, FENG Zhao-dong, and LIU Yong(161)
- A Comparison in the Soil Seed Banks of a *Corylus Mandshurica*-*Quercus Liaotungensis* Mixed Scrub Community and  
Three Young Forest Plantations in the Upper Reach of Minjian River ..... LIU Wen-sheng, CAO Min, and TANG Yong(168)
- Heavy Metal in Soils of Wuzhi Mountain in Hainan Province ..... LIAO Jin-feng(172)
- A Case Study on the Relationship Between Regional Environment Change and Urbanization of Small Town on the  
Flood-alluvial Fan in Front of Mountain ..... LI Ming-ji, HE Tong-hui, and QU Xiang-ning(179)
- A study on North-South differences of the Danxia Landform Pattern and Its Tourism Values in China ..... ZHOU Xue-jun(186)
- Industrial Structure and Sustainable Use of Water Resources in Reservoir Basin  
..... ZHANG Wen-guo, YANG Zhi-feng, YI Feng *et al.* (194)
- Analysis of Water Resources and Its Hydrological Characteristics of Weigan River Basin  
..... Mansur SABIR, Yusupjan RUSUL, Ablajan SULAYMAN(200)
- Study of the Cultural Techniques for Nontimber Forest on Purple Soil ..... DENG Bai-luo and TAN Zheng-hui(209)
- A Study of Agroclimatic Resources of main Cultivated Crops in Xizhuang Watershed of Yunnan  
..... AI Xi-hui, LIN Hai, FAN Li-zhang *et al.* (215)
- Character Analysis of Debris Flow in Luobajie Gully ..... DI Bao-feng, CHEN Ning-sheng, XIE Wan-ying *et al.* (222)
- Formation of Residue Layer of debris Flow and the Reduction of Resistance  
..... ZHANG Jun, WU Ji-shan, YOU Yong *et al.* (227)
- Rock Lump of Landslide of Layue Destruction Feature Analysis in Sichuan-Xizhang Highway  
..... KONG Ji-ming, ZHANG Xiao-gang, and Qing Ba(233)
- Formation Cause Analysis of Xujiawan Landslide in the No. 209 National Road and Its Treatment  
..... ZHANG Ji-rui, LI Ming-hai, and YIN Guang-hui(238)
- Application of GPS & GIS Technology During the Primary Study on Landslide Hazards in the Middle Mountainous Watershed  
A Case Study from Xizhuang Watershed, Yunnan, Southwest China ..... GAO Fu, AI Xi-hui, DUAN Shang-biao *et al.* (245)
- The Theoretical Analysis of the Mid-principal Stress of Rock ..... XU De-xin(251)
- A Mathematical Simulation of DEM Terrain Representation Error —— A Case Study in the Loess Hill-gully Areas of China  
..... ZHANG Yong, TANG Guo-an, and PENG Qi(256)

### No. 3

- The Comparison of Community Biomass and Environmental Condition of Five Vegetational Type in Alpine Meadow of  
Haibei, Qinghai Province ..... LI Yingnian, ZHAO Xin-quan, WANG Qian-xue *et al.* (264)
- Mountain Landscape Ecosystem Construction and Landscape Planning of Western Beijing Area  
..... WANG Yun-cai and GUO Huan-cheng(271)
- Landscape Pattern Analysis on Change in the Fraction of Green Vegetation Based on Remotely Sensed Data in  
Beijing Mountainous Area ..... LI Xiao-qin, SUN Dan-feng, and ZHANG Feng-rong(280)
- Micro-morphological Features of Soil Under Subalpine Forests on East Slope of Gongga Mountain  
..... HE Yu-rong, ZHANG Bao-hua, ZHOU Hong-yi *et al.* (286)
- Characteristic of Forests Litterfall Along Vertical Spectrum on the Gongga Mountain  
..... LUO Ji, CHENG Gen-wei, CHEN Bin-ru *et al.* (292)
- Features and Rehabilitating Ways for Sub-tropic Karst Mountain Ecosystem ..... ZHOU You-you and TANG Xiao-chun(297)
- Carbon Stock and Carbon Sequestration of a 33-Year-old *Fokienia hodginsii* Plantation  
..... HE Zong-ming, LI Li-hong, WANG Yi-xiang *et al.* (303)
- Quantitative Estimate on Destruction Forest Caused by Human Activities in Dongchuan Region of Yunnan Province  
During Qing Dynasty and Early Stage of Republic of China ..... ZHOU Lin(310)
- Spatial Dimensions of Mountains, Faults and River Basins of Continental China  
..... ZHU Xiao-hua, CAI Yun-long, and WANG Jian(317)
- Effect of Man-made Rubber-Tea Community Improving Ecological Condition of Soil ..... WANG Hui-hai and LI De-hou(323)

## Value of the Coordination to Eco-economy in Mountain District Based on Ecological Footprint Model

- ..... WANG Shu-hua and WANG Zhong-jing(330)
- On the Cause of the Slow Development of Society and Economy in the Mountain Villages ..... QIAO Jia-jun(336)
- On Grassland Resource and the Sustainable Development of Animal Husbandry in Dingjie County, Tibet  
..... YE Yan-qiong, YANG Zhong, DI Bao-feng *et al.* (341)
- Socioeconomic Countemeasures for Eco-construction in Lhasa Area ..... LI Li-feng and ZHENG Du(347)
- Study on the Indices to the Features of Purple Soil Aggregates ..... LUO Dong-qi, HOU Chun-xia, WEI Chao-fu *et al.* (353)
- The Current Situation of Development About Debris Flows Caused by Human Activities and Its Distribution Characteristics  
in the Exploitation in Shenfu-Dongsheng Coal Field ..... WANG Wen-long, LI Zhan-bin, and ZHANG Ping-cang(359)
- Application of Grey-correlation Method to Activity Evaluation of Debris Flow  
..... ZOU Xiang, CUI Peng, WEI Fang-qiang *et al.* (364)
- Study on Evaluation of Strength Parameter of Quasi-lamellar Structure Rock Mass ..... HU Xie-wen(368)
- Studying Method of Typical Landslide ..... QIAO Jian-ping, ZHAO Yu, and CHEN Yong-bo(372)
- The Use of Synthetic Aperture Radar Interferometry to Study Geohazards and Survey Topography  
..... DENG Hui and HUANG Run-qiu (377)
- Remote Sensing Estimation of Suspended Sediment Concentrations in Highly Turbid Inland River Waters:  
An Example from the Lower Jinsha Tributary, Yunnan, China ..... S. C. Liew, X. X. Lu, P. Chen *et al.* (379)

## No. 4

## The Validation of Air Temperature Estimates of Mountain Microclimate Simulation Model in China's Subtropical

- Mountainous Region ..... LI Hai-tao, SHEN Wen-qing, and XIA Jun(394)
- The Validation of Humidity Estimate of Mountain Microclimate Simulation Model in China's Subtropical  
Mountainous Region ..... LI Hai-tao, SHEN Wen-qing, and XIA Jun(401)
- A Preliminary Approach to the Ecological Security Patterns of Land Use for Controlling Soil Erosion in Jinsha  
River Basin of Yunnan Province ..... YANG Zi-sheng, LIANG Luo-hui, and WANG Yun-peng(409)
- Montane Landscape Ecology Research based on Geomatics ..... GUO Luo and YU Shi-xiao(415)
- Spatial Correlation among Vegetation Landscape in Baiyunshan Scenic Spot, Guangzhou  
..... WANG Yong-hua and CHEN Bei-guang(421)
- Trends of Climate Change over Low Latitude Upland ..... JI Ting-yan(427)
- Differentiation of Paleosols from Sediments in Late Tertiary Period of Wudaoliang Stratigraphic Section in Qinghai Province  
..... HUANG Cheng-min, WANG Cheng-shan, LI Ya-lin *et al.* (434)
- Regional Differences on Economy Development in China Mountain Areas ..... CHEN Guo-jie and ZHOU Hou-zhen(441)
- Tourism Development and Poverty Alleviation of Minority Municipalities in Sichuan Province  
..... HE Jing-ming, LI Hui-xia, HE Yu-cheng *et al.* (448)
- Paying More Attention to the Construction & Research on Digital Mountainous City in China  
..... ZHOU Jun-qing and HUANG Guang-yu(455)
- Constructive Objection of Ecological Function Area of Three Rivers Regions Bordered on the Sichuan, Yunnan,  
and Tibet and Prediction about its Influence ..... LI Yong and CHENG Gen-wei(460)
- Application of CASCADE Model and Management of Deep Subsoil Water in Red Soil in Low Hilly Areas  
..... JING Yuan-shu, ZHANG Bin, ZHAO Qi-guo *et al.* (465)
- Observation Studies on Water and Soil Loss in the Process of Rainfall on the Slope Lands of Red Soil in North Hunan  
..... XIE Xiao-Li and WANG Kai-Rong(472)
- Influence of Site Preparation on Physical Properties of Chestnut Soil and Tree Growth of Poplar Population  
..... DUAN Wen-biao, CHEN Li-xin, and SUN Long (481)
- Distribution of Potassium Form in Different Class of Weathered Particles of Purple Rocks ..... YOU Xiang and ZHU Bo(486)
- Relationship Between Depth and Residual Layer of Viscous Debris Flow  
..... WU Ji-shan, ZHANG Jun, CHENG Zun-lan *et al.* (492)
- Study on Incipient Motion of Bed Material with a Wide Size Distribution ..... JIN Ming-hong(497)

## Study on the Quaternary Sediments' Properties and Engineering Countemeasures in Nanchong City

..... SU Pei-dong and QIN Qi-rong(502)

## Application of Body Injection in a Drilling Compresol Pile for Supplying a Deficiency

..... FENG Wen-kai, WANG Ming-hua, LIU Han-chao *et al.* (506)

## The Predictive Model of the Tunnel Collapse Height Based on BP Artificial Neural Network and Multiple Regression

..... TAN Guang-Jie, DONG Xiao-Bi, and YIN Xian-Ke(510)

## On a Few Problems Related to Tree Photosynthesis on Alpine Timberline —to Discuss with LIU Hong-yan and Others

..... LUO Ji(511)

## No. 5

## Simulation of Resuming Rebuilding Weak Eco-environment and Developing Agriculture and Husbandry in

Longzhong Semi-Arid Region ..... ZHANG Han-xiong, SHANG Guan Zhopin(520)

## Multi-dimensional Vegetation Infomation System and the Prospect of Its Applications

..... DAI Xiao-hua, YU Shi-xiao(528)

## Mechanism of Paleo-Collapse Landform in Mt. Fu of Huangyan, Zhejiang Province

..... SHEN Hong-Yuan, ZHU Cheng Tang Yun-song *et al.* (536)

## Validating the Solar Radiation Estimation of Mountain Microclimate Simulation Model in Subtropical

Mountainous Region of China ..... LI Hai-tao, XIA Jun, SHEN Wen-qing *et al.* (541)

## Improving the Estimation of Solar Radiation of Mountain Microclimate Simulation Model in Subtropical

Mountainous Region in China ..... LI Hai-tao, XIA Jun, SHEN Wen-qing *et al.* (551)

## Land Cover and Landscape Dynamics of Yiluo River Basin ..... QIAN Le-xiang, DING Sheng-yan, QIN Fen (558)

## Features of Ecosystems alongside Qinghai-Xizang Highway and Railway and the Impacts of Road Construction on Them

..... CHEN Hui, LI Shuang-cheng, ZHENG Du(567)

Diversity of Tree Species of Subalpine Coniferous Forests and *Quercus* Sclerophyllous Forests in Northwest Yunnan

..... YU Yang, CAO Min, LIU Wen-sheng(575)

## Landscape Pattern of Valleys in Southern Mountains of Jinan, Shandong Province

..... QIN Yan-hong, WANG Li-hong, ZHAO Hong-bing(581)

## Geological Hazards in the Project of Water Devision from the South to the North via the Western Course, China

..... MA Dong-tao, CUI Peng, CHEN Shu-tao *et al.* (588)

## The Embedding Ancient Groove's Spatial Distributing Characteristics in the Longchi Slope in Dixi Seismic Area

..... XU Xiang-ning, WANG Lan-sheng(594)

## Formative Mechanism and Control of Typical Sand-Sliding Slope along Sichuan-Tibet Highway

..... QUE Yun, WAGN Cheng-hua, ZHANG Xiao-gang(598)

## 2002-08-14 Large-scale Landslide Debris-flow Hazard in Xinping County and the Prevention Countemeasure

..... CHEN Xiao-qing, WEI Fang-qiang, CUI Peng *et al.* (604)

## Experimental Research on Sediment Concentration and Clay Loss in Rill Erosion

..... XIA Wei-sheng, LEI Ting-wu, ZHANG Qing-wen *et al.* (609)

## Simulating Experiments of Temporal Change Characteristics of Runoff and Sediment on Slope

..... WANG Wen-long, MO Yi-xiang, LEI A-lin *et al.* (614)

## The Making and Application of the Soil Erodibility Index Nomograph Suitable for Water Erosion Region in China

..... ZHANG Ai-guo, SHAN Yong-jie, JING Xiao-yuan(618)

## The Desogn Method of Anti-slide Pile for Controlling Tunnel Deformation in Landslide

..... TAO Zhi-ping, ZHOU De-ped(623)

## Investigation and Research of Landslides in Taiwan

..... LEE Chinyu(630)

## No. 6

## Problems in the Paleoenvironmental Reconstruction of Laterite in South China ..... FENG Zhi-gang, WANG Shi-jie(646)

## Difference between Tourism Vegetation Landscapes of Different Distance

..... CHENG Zhan-hong, ZHANG Jin-tun(652)

## Microelement Analysis in Wild Economic Plants of Changbai Mountain: Content, Variation and Correlation

of Fe, Zn, Se and Ge ..... CUI Xiao-yang, SONG Jin-feng, ZHANG Yun(661)

Eco-environment Effects of the Typical Young *Pinus Tabulaeformis* Plantation Rehabilitation in the Upper Reaches of Minjiang River ..... BAO Wei-kai, QIAO Yong-kang, CHEN Qing-heng (668)

On the Conception of Danxia Landform ..... LIU Shang-ren, LIU Rui-hua(674)

Study on Slump Gully Erosion and Its Control in Fujian Province ..... RUAN Fu-shui(680)

Water Increasing Effect of Mountains and Its Value of Water Resources ..... DING Xian-Rong(685)

Fems Flora in Lishui Mountains in Zhejiang Province ..... ZHU Sheng-chao(694)

A Study on the Structure of *Picea Asperata* Community of Miyaluo Subalpine in Western Sichuan, China ..... LIU Qing, YIN Hua-jun and WU Yan(701)

Economic Niche of Land Use and Sustainable Development in Mountains——A Case Study of Chongqing ..... QIN Jian-cheng, GAO Ming(706)

Seeds and Their Distribution in the Soils of Karst Upland in Eastern Yunna ..... SHEN You-xin, ZHANG Ping, CAI Guang-li *et al.* (711)

Surges and Deposits of Debris Flow in Jiangjia Gully ..... LI Yong, YAO Shou-fu, HU Kai-heng *et al.* (715)

Typical Debris Flow Triggered by Ice-Lake Break ..... CHENG Zun-lan, ZHU Ping-yi, GONG Yi-wen(720)

Development of Landslides from Fuling to Pengshui Section along the No. 319 National Road ..... BAI Yun-feng, ZHOU De-pei(725)

Application of Particle Model in Risk Zoning of Debris Flow ..... HU Kai-heng, WEI Fang-qiang, HE Yi-ping *et al.* (730)

Evolution of Long-Dan-Xi Landslide along Sichuan-Tibet Highway ..... ZHANG Xiao-yan(735)

Relation between the Character of the Plant Growth and the Fomation Time and Stability of a Landslide Dam ..... LIU Hui-jun, DUAN Zhi-gang, CUI Ying-xiang *et al.* (738)

An Integral Model for Landslide Harness and Highway Construction in Urban Bank of the Three-gorges Reservoir——A Case Study of Qingquanlu Landslide in Chongqing ..... CHEN Hong-kai, TANG Hong-mei(744)

Sediment Properties of Hyperconcentrated Flow and the Improved Effects of on Debris Flow Waste-shoal Land in the Jiangjia Ravine ..... WANG Dao-jie, CUI Peng, ZHU Bo *et al.* (751)

Analysis Debris Flow Characteristic and Engineering Control in Taoguan Ravine of the Upper Reaches of Minjiang River ..... WANG Quan-cai, LIU Xi-lin, KONG Ji-ming *et al.* (757)

Monitoring on Desertification Trends of the Grassland and Shrinking of the Wetland in Ruogai Plateau in North-west Sichuan by Means of Remote-sensing ..... YONG Guo-wei, SHI Cheng-cang, QIU Peng-fei(762)

Soil Taxonomy in Mountainous Areas in the Hexi Region of Gansu Province ..... QI Shan-zhong, XIAO Hong-lang, LUO Fang(774)

Review on the Development and Organization of Ecological Industries in Mountain Area ..... FENG Hai-yan(775)

CONTENTS of Vol. 21, 2003 ..... (780)