

中国科技核心期刊



ISSN 0253-4967

CN 11-2192/P

CODEN DDIZD4

# 地震地质

**SEISMOLOGY AND GEOLOGY**

第34卷 第4期 Vol. 34 No. 4

2012



中国地震局地质研究所

第34卷终

ISSN 0253-4967



万方数据

9 770253 496035

# SEISMOLOGY AND GEOLOGY

( Vol. 34 No. 4 Dec. 2012 )

## ( Special Section : Seismology and geology · Volcanic hazards and mechanisms · Integrated disaster reduction )

### CONTENTS

#### Seismicity and earthquake mechanisms

- A new upsurge in global seismicity ..... DENG Qi-dong(545)  
The characteristics of time series of strong earthquakes in the world and China's mainland ..... SHAO Zhi-gang, MA Zong-jin, CAI Jin-an, et al. (551)  
Seismogenic structure and rupture mechanism of the  $M_s$  8.0 Wenchuan earthquake ..... ZHANG Pei-zhen, ZHU Shou-biao, ZHANG Zhu-qi, et al. (566)  
A new electromagnetic technique for earthquake monitoring—CSELF and the first observational network ..... ZHAO Guo-ze, WANG Li-feng, ZHAN Yan, et al. (576)

#### Active tectonics and seismotectonics

- Tectonic implication of crust and uppermost mantle  $P_n$  velocity structure of eastern Asia ..... ZHANG Guo-min, WANG Su-yun, WANG Hui(586)  
Stress change of Shanxi tectonic belt related to the 2001  $M_s$  8.1 Kunlun earthquake ..... WANG Kai-ying, MA Jin, DIAO Gui-ling, et al. (597)  
Fuyun Fault: Long-term faulting behavior under low crustal strain rate ..... XU Xi-wei, SUN Xin-zhe, TAN Xi-bin, et al. (606)  
Features of seismogenic structures of great earthquakes in the Bohai Bay Basin area, North China ..... XU Jie, ZHOU Ben-gang, JI Feng-ju, et al. (618)  
Characteristics of active faults between the north segment of the North-South Seismic Belt and the Central Mongolia ..... HUANG Xiong-nan, ZHANG Jia-sheng, LI Tian-bin, et al. (637)  
The iron oxide changes in drilling cores from the two walls of Xiadian active fault ..... YANG Xiao-ping, CAO Jing-hu, CHEN Xian-cheng(659)  
Influence of interferometric baseline on measurements of seismic deformation: A case study on the 1997 Mani, Tibet  $M7.7$  earthquake ..... QU Chun-yan, SHAN Xin-jian, ZHANG Guo-hong, et al. (672)  
Formation of one type of an en-echelon quartz vein array and its implication ..... ZHANG Jin, LI Yan-feng, XIAO Wen-xia(684)  
The structural style and timing of uplift of the Ailaoshan-Diancang Range, west Yunnan, China ..... LI Bao-long, JI Jian-qing, LO Ching-hua, et al. (696)  
Research on active fault database construction related issues ..... YU Gui-hua, DU Ke-ping, XU Xi-wei, et al. (713)  
Assess the reservoir-induced seismic hazard in the Hubei section of the Three Gorges Reservoir using gray clustering method ..... MA Wen-tao, XU Xi-wei, YU Gui-hua, et al. (726)

#### Volcanic hazards and mechanisms

- A preliminary study of the origin about the yellow material at Changbaishan Tianchi volcano ..... YIN Gong-ming, FAN Qi-cheng(739)  
Lava flow styles in Dayingshan, Maanshan and Heikongshan in Tengchong volcanic field ..... ZHAO Yong-wei, FAN Qi-cheng, LI Ni, et al. (743)  
Geomorphic characteristics and fault restriction in the Tengchong volcanic region—Interpretation based on DEM and TM data ..... ZHANG Liu-yi, LI Ni, ZHAO Yong-wei, et al. (755)  
Mineral chemistry of lamella olivine and its implications for mantle rheology ..... SUI Jian-li, FAN Qi-cheng, LI Ni, et al. (768)

#### Earthquake emergency response and integrated disaster reduction

- Advances in earthquake emergency disaster service ..... NIE Gao-zhong, AN Ji-wen, DENG Yan(782)  
Research on Asian catastrophe grade classification ..... LI Zhi-qiang, XU Jing-hai, LI Xiao-li(792)  
Distribution and formation of earthquake-induced secondary geological disasters in China ..... ZHANG Ye-cheng, ZHANG Li-hai, ZHAO Xiao-qing(805)  
Research on simulation test of rainfall-induced landslide and seismic landslide ..... WANG Wei-feng, GENG Yun, WANG Qing-zhen, et al. (810)  
Study on the changes of vulnerability and loss risk of buildings from seismic disaster in the process of urbanization—A case study of Tangshan area ..... QI Wen-hua, SU Gui-wu, ZHANG Su-ling, et al. (820)  
Descriptive statistical features of earthquake disaster awareness of the elementary school students in Yushu area, Qinghai Province, China ..... WU Huan-jie, SU Gui-wu, WEI Ben-yong, et al. (835)

# 地震地质

(2012年12月 第34卷 第4期)

(地震地质·火山机理·综合减灾研究专辑)

## 目 次

### 地震活动与地震机理

- 一次全球性新的地震活动高潮 ..... 邓起东(545)  
全球及中国大陆强震时序活动特征 ..... 邵志刚 马宗晋 蔡晋安等(551)  
汶川地震的发震构造与破裂机理 ..... 张培震 朱守彪 张竹琪等(566)  
地震预测人工源极低频电磁新技术(CSELF)和第一个观测台网 ..... 赵国泽 王立凤 詹艳等(576)

### 活动构造与地震构造

- 东亚地区上地幔顶部  $P_v$  速度结构的构造动力学意义 ..... 张国民 汪素云 王辉(586)  
2001年昆仑山口西地震前后山西构造带的应力状态变化 ..... 王凯英 马瑾 刁桂苓等(597)  
富蕴断裂: 低应变速率条件下断层滑动习性 ..... 徐锡伟 孙鑫喆 谭锡斌等(606)  
华北渤海湾盆地区大震发震构造的基本特征 ..... 徐杰 周本刚 计凤桔等(618)  
南北地震带北段与蒙古中部活动断裂构造特征 ..... 黄雄南 张家声 李天斌等(637)  
夏垫活动断裂两盘岩心氧化铁变化 ..... 杨晓平 曹景虎 陈献程(659)  
干涉基线对地震形变场的影响  
——以玛尼地震同震-震后形变场为例 ..... 屈春燕 单新建 张国宏等(672)  
一种雁行石英脉体的形成及构造意义 ..... 张进 李岩峰 肖文霞(684)  
滇西点苍山—哀牢山隆升构造样式和隆升时限 ..... 李宝龙 季建清 罗清华等(696)  
活动构造数据库建设相关问题的研究 ..... 于贵华 杜克平 徐锡伟等(713)  
使用灰色聚类方法评估长江三峡水库湖北不同库段水库诱发地震的震级上限  
..... 马文涛 徐锡伟 于贵华等(726)

### 火山灾害与火山机理

- 长白山天池火山顶部黄色物质成因的初步探讨 ..... 尹功明 樊祺诚(739)  
腾冲打鹰山、马鞍山、黑空山熔岩流动方式 ..... 赵勇伟 樊祺诚 李霓等(743)  
腾冲火山区地形地貌特征及断裂制约关系  
——卫片与 DEM 解译的认识 ..... 张柳毅 李霓 赵勇伟等(755)  
橄榄石微页理结构的矿物化学及其地幔流变意义 ..... 廉建立 樊祺诚 李霓等(768)

### 地震应急与综合减灾

- 地震应急灾情服务进展 ..... 聂高众 安基文 邓砚(782)  
亚洲巨灾划分研究 ..... 李志强 徐敬海 李晓丽(792)  
中国地震次生地质灾害分布特征与形成条件 ..... 张业成 张立海 赵晓青(805)  
降雨型与地震型滑坡试验研究 ..... 王伟锋 耿贊 王青振等(810)  
城市化过程中房屋地震灾害脆弱性和损失风险变化研究  
——以唐山市区及城乡过渡乡镇为例 ..... 齐文华 苏桂武 张素灵等(820)  
青海玉树地区小学生认知地震灾害现状的描述统计特点 ..... 作焕杰 苏桂武 魏本勇等(835)  
2012年《地震地质》总目次 ..... (850)

本期特约主编: 张培震

责任编辑: 刘萍

英文审校: 尹志军

本期特约组稿专家: 聂高众

编 校: 王立红 万园

本期特约联系人: 齐文华

[期刊基本参数] CN11-2192/P \* 1979 \* q \* 16 \* 312 \* zh+En \* P \* ¥20 \* 1200 \* 25 \* 2012-12