

List of Publication for *Journal of Earth Science* in 2020

No. 1

Paleontology

- Ufadendron elongatum* sp. nov., an Angaran Lycopsid from the Upper Permian of Inner Mongolia, China.....1
Zhen Tang, Yi Zhang, Serge V. Naugolnykh, Changqing Zheng, Lu Shi, Tao Qin and Junhao Huang
- Conodont Biostratigraphy and Age of the Early Triassic Fish-Bearing-Nodule Levels from
Nanjing and Jurong, Jiangsu Province, South China.....9
Shuang Liu, Zuoyu Sun, Cheng Ji, Min Zhou and Dayong Jiang

Petrology and Geochronology

- Geochemistry and Geochronology of Diorite in Pengshan Area of Jiangxi Province:
Implications for Magmatic Source and Tectonic Evolution of Jiangnan Orogenic Belt.....23
*Hongfeng Shi, Junpeng Wang, Yuan Yao, Jing Zhang, Song Jin, Yingxin Zhu,
Kang Jiang, Xiaolong Tian, Deng Xiao and Wenbin Ning*
- Geochronological and Geochemical Constraints on the Petrogenesis of Early Paleoproterozoic (2.40–2.32 Ga)
Nb-Enriched Mafic Rocks in Southwestern Yangtze Block and Its Tectonic Implications.....35
Guichun Liu, Xin Qian, Jing Li, Jian-Wei Zi, Tianyu Zhao, Qinglai Feng, Guangyan Chen and Shaobin Hu
- Zircon U-Pb Ages and Magmatic History of the Kashan Plutons in the Central Urumieh-Dokhtar Magmatic Arc, Iran:
Evidence for Neotethyan Subduction during Paleogene–Neogene.....53
Tayebeh Khaksar, Nematollah Rashidnejad-Omran, Fukun Chen, Shu-Guang Song, Shuang-Qing Li and Majid Ghaderi
- SIMS U-Pb Zircon Geochronological and Carbon Isotope Chemostratigraphic Constraints on the Ediacaran-Cambrian Boundary
Succession in the Three Gorges Area, South China.....69
Taiyu Huang, Daizhao Chen, Yi Ding, Xiqiang Zhou and Gongjing Zhang

Structural Geology

- Deep Duplex Thrust in the Sangzhi-Shimen Tectonic Belt, in the West Hunan and Hubei Areas.....79
Xuliang Zhang and Dengfa He
- Precipitation of Calcite Veins in Serpentinized Harzburgite at Tianxiu Hydrothermal Field on Carlsberg Ridge (3.67°N),
Northwest Indian Ocean: Implication for Fluid Circulation.....91
Yang Chen, Xiqiu Han, Yejian Wang and Jianggu Lu
- Nd-Hf Isotopic Decoupling of the Silurian–Devonian Granitoids in the Chinese Altai:
A Consequence of Crustal Recycling of the Ordovician Accretionary Wedge?.....102
Yanqiong Huang, Yingde Jiang, Yang Yu, Stephen Collett, Sheng Wang, Tan Shu and Kang Xu
- Magnetic Fabric and Petrofabric of Amphibolites from the Namcha Barwa Complex, Eastern Himalaya.....115
Wenjing Li, Haijun Xu and Junfeng Zhang

Environmental Geology and Geothermal

- Zinc Isotope Characteristics in the Biogeochemical Cycle as Revealed by
Analysis of Suspended Particulate Matter (SPM) in Aha Lake and Hongfeng Lake, Guizhou, China.....126
Lili Liang, Cong-Qiang Liu, Xiangkun Zhu, Bryne T. Ngwenya, Zhongliang Wang, Liuting Song and Jin Li
- Petrogenesis, Tectonic Evolution and Geothermal Implications of Mesozoic Granites in
the Huangshadong Geothermal Field, South China.....141
Zhicai Xiao, Shuai Wang, Shihua Qi, Jian Kuang, Min Zhang, Feng Tian and Yongjie Han
- New Framework Based on Fusion Information from Multiple Landslide Data Sources and 3D Visualization.....159

Fermin Villalpando, José Tuxpan, José Alfredo Ramos-Leal and Simón Carranco-Lozada

Petroleum, Natural Gas Geology

- Insights into Pore Structure and Fractal Characteristics of the Lower Cambrian Niutitang Formation Shale on the Yangtze Platform, South China..... 169
Zixuan Liu, Detian Yan and Xing Niu
- New Insight into Factors Controlling Organic Matter Distribution in Lower Cambrian Source Rocks: A Study from the Qiongzhusi Formation in South China..... 181
Shucan Zheng, Qinglai Feng, Nicolas Tribouvillard, Thomas Servais, Yan Zhang and Bo Gao
- Hydrocarbon Generation, Migration, and Accumulation in the Eocene Niubao Formation in the Lunpola Basin, Tibet, China: Insights from Basin Modeling and Fluid Inclusion Analysis..... 195
Yiming Liu, Jiaren Ye, Qiang Cao, Baolin Yang and Zhongrong Liu
- Remote Detection of Hydrocarbon Microseepage in a Loess Covered Area..... 207
Liang Zhao, Daming Wang, Shengbo Chen, Lin Li and Tianyu Zhang
- Environmental Risk Assessment for Exploration and Extraction Processes of Unconventional Hydrocarbon Deposits of Shale Gas and Tight Gas: Pomeranian and Carpathian Region Case Study as Largest Onshore Oilfield..... 215
Monika Wójcik and Wojciech Kostowski

No. 2

Petrology, Geochemistry and Ore Deposits

- Geochemical Characteristics of Zoned Chromites in Peridotites from the Proterozoic Miaowan Ophiolitic Complex, Yangtze Craton: Implications for Element Mobility and Tectonic Setting..... 223
Yang Huang and Hao Deng
- Geochemistry, Sr-Nd-Pb Isotopic Compositions and Zircon U-Pb Geochronology of Neoproterozoic Mafic Dyke in the Douling Complex, South Qinling Belt, China..... 237
Tong Li, Liang Liu, Xiao-Ying Liao, Yong-Sheng Gai, Tuo Ma and Chao Wang
- Magnesium Isotopic Homogeneity of GSR-1 and RGM-2: Two Potential Standards for Mg Isotope Analysis of Low MgO Felsic Rocks..... 249
Lu Chen, Zhian Bao, Honglin Yuan, Kaiyun Chen and Chunlei Zong
- Microstructures and Phase Transition in Omphacite: Constraints on the *P-T* Path of Shuanghe Eclogite (Dabie Orogen)..... 254
Zhanjun Xie, Xiangwen Liu, Zhenmin Jin and Zhuoyue Li
- Improved *in-situ* Determination of Sr Isotope Ratio in Silicate Samples Using LA-MC-ICP-MS and Its Wider Application for Fused Rock Powder..... 262
Liyun Zhu, Ganglan Zhang, Yongsheng Liu, Jie Lin, Xirun Tong and Shao-Yong Jiang
- Factors Controlling Deposition of Metallic Minerals in the Meng'entaolegai Ag-Pb-Zn Deposit, Inner Mongolia, China: Evidence from Fluid Inclusions, Isotope Systematics, and Thermodynamic Model..... 271
He Yang, Wanli Ma, Rui Wang, Xueli Ma and Keyong Wang
- Constraints on the Genesis of the Qixiashan Pb-Zn Deposit, Nanjing: Evidence from Sulfide Trace Element Geochemistry..... 287
Xuejuan Sun, Pei Ni, Yulong Yang, Zhe Chi, Shan Jing
- Ore Forming Fluids of Several Gold Deposits in the Irtysh Gold Belt, Xinjiang, China..... 298
Yingwei Wang, Jiu Hua Xu, Rufu Ding, Hui Zhang, Xihui Cheng and Chunjing Bian
- Geochronology, Geochemistry and Hf Isotope of the Late Mesozoic Granitoids from the Lushi Polymetal Mineralization Area: Implication for the Destruction of Southern North China Craton..... 313
Yuanyuan Zhai, Shuai Gao, Qingdong Zeng and Shaoxiong Chu
- SEM-CL Study of Quartz Containing Fluid Inclusions in Wangjiashuang Porphyry Copper (-Molybdenum) Deposit, Western Shandong, China..... 330
Lei Shu, Kun Shen, Renchao Yang, Yingxin Song, Yuqin Sun, Wei Shan and Yuxin Xiong

Petroleum, Natural Gas Geology

- Paired $^{13}\text{C}_{\text{carb}}$ - $^{13}\text{C}_{\text{org}}$ Evolution of the Dengying Formation from Northeastern Guizhou and Implications for Stratigraphic Correlation

- and the Late Ediacaran Carbon Cycle.....342
Yi Ding, Daizhao Chen, Xiqiang Zhou, Taiyu Huang, Chuan Guo and Rumana Yeasmin
- Formation Mechanism and Numerical Model of Quartz in Fine-Grained Organic-Rich Shales: A Case Study of Wufeng and Longmaxi Formations in Western Hubei Province, South China.....354
Bao Zhang, Detian Yan, Hassan Jasmine Drawarh, Xiangrong Yang, Jin He and Liwei Zhang
- Effect of Organic Matter Type and Maturity on Organic Matter Pore Formation of Transitional Facies Shales: A Case Study on Upper Permian Longtan and Dalong Shales in Middle Yangtze Region, China.....368
Zhongrui Wu, Sheng He, Yuanjia Han, Gangyi Zhai, Xipeng He and Zhi Zhou

Structural Geology and Engineering Geology

- Non-Impact Origin of the Baisha Structure in Hainan Province, China.....385
Jiang Pu, Zhiyong Xiao, Long Xiao and Cheng Huang
- Influence of Tectonics and Morphometric Features on the Landslide Distribution: A Case Study from the Mesima Basin (Calabria, South Italy).....393
Massimo Conforti and Fabio Letto

Environmental Geology

- Potential Effect of Black Carbon on Glacier Mass Balance during the Past 55 Years of Laohugou Glacier No. 12, Western Qilian Mountains.....410
Jizu Chen, Xiang Qin, Shichang Kang, Wentao Du, Weijun Sun and Yushuo Liu
- Stable Isotope Evidence for Recent Global Warming Hiatus419
Rui Wang and Zhongfang Liu

No. 3

Petrology

- Metamorphic Evolution of Chloritoid-Bearing Micaschist from the Variscan Elstergebirge: Evidences for Stacking of High-Pressure Rocks in the Saxothuringian Zone of Central Europe.....425
Gelareh Rahimi and Hans-Joachim Massonne
- Reaction Infiltration Instabilities in Partially Molten Peridotite and Implications for Driving the Transport of Sulfide Liquid.....447
Zhenjiang Wang and Zhenmin Jin
- Experiments on the Saturation of Fluorite in Magmatic Systems: Implications for Maximum F Concentration and Fluorine-Cation Bonding in Silicate Melt.....456
Xiaoyan Li, Chao Zhang, Lianxun Wang, Harald Behrens and Francois Holtz
- Late Early-Cretaceous Magma Mixing in the Langqi Island, Fujian Province, China: Evidences from Petrology, Geochemistry and Zircon Geochronology.....468
Liangliang Huang, Liyuan Wang, Hong-Rui Fan, Musen Lin and Wenhui Zhang

Mineral Deposits

- Zircon U-Pb Geochronology Recorded Late Cretaceous Fluid Activation in the Central Aldan Gold Ore District, Aldan Shield, Russia: First Data.....481
Vasilii I. Leontev, Sergey G. Skublov, Nadezhda V. Shatova and Alexey V. Berezin
- Abundance of Carbonic Fluid Inclusions in Hira-Buddini Gold Deposit, Hutti-Maski Greenstone Belt, India: Inferences from Petrography and Volume Ratio Estimation of Fluid Components.....492
Rajagopal Krishnamurthi, Ajit Kumar Sahoo, Rajesh Sharma and Prabhakar Sangurmath
- Structural Networks Constraints on Alteration and Mineralization Processes in the Jiaojia Gold Deposit, Jiaodong Peninsula, China.....500
Huanlong Hu, Shuangliang Liu, Hong-Rui Fan, Kuifeng Yang, Yabin Zuo and Yachun Cai
- Fluid Inclusion Evidences for the *P-T* Conditions of Quartz Veins Formation in the Black Shale-Hosted Gold Deposits, Bodaybo Ore Region, Russia.....514

Natalia N. Ankusheva, Ekaterina E. Palenova and Svetlana N. Shanina

- High f_{H_2} - f_{S_2} Conditions Associated with Sphalerite in Latala Epithermal Base and Precious Metal Deposit, Central Iran: Implications for the Composition and Genesis Conditions of Sphalerite.....523
Fariba Padyar, Mohammad Rahgoshay, Alexander Tarantola, Marie-Camille Caumon and Seyed Mohammad Pourmoafi
- Composition of Pancarli Magmatic Ni-Cu±(PGE) Sulfide Deposit in the Cadomian-Avalonian Belt, Eastern Turkey.....536
Esra Yildirim, Nail Yildirim, Cahit Dönmez, Kurtuluş Günay, Taner Korkmaz, Mustafa Akyildiz and Burcu Gören
- Ga-(Nb+Ta)-(Nb/Ta)(Zr/Hf) Ternary Diagram: An Excellent Tool for Discriminating Barren and Ta-Hosting Granite-Pegmatite Systems.....551
Maryam Mohamadizadeh, Seyed Hossein Mojtahedzadeh and Farimah Ayati
- Fluid Inclusion Characteristics of Tungsten Mineralization in the Agargaon Area of Sakoli Fold Belt, Central India.....559
Girish Kumar Mayachar and Subhasish Ghosh
- Quartz-Hosted Fluid Inclusions Characteristics and Their Implications for Fluvial Deposits along the Changjiang River.....571
Zhenqiang Ji, Chendong Ge, Mengyang Zhou and Nan Zhang

Structural Geology and Geomorphology

- Comparative New Insight into the Tectonic Origin of Folds and Thrust Faults of an Extensional Basin: Söke-Kuşadası Basin, Aegean, Western Turkey.....582
Bülent Doğan
- Major Tectonic Lineaments Influencing the Oilfields of the Zagros Fold-Thrust Belt, SW Iran: Insights from Integration of Surface and Subsurface Data.....596
Mohammad Seraj, Ali Faghih, Hossein Motamedi and Bahman Soleimany
- Orogenic Movements during the Paleozoic Period: Development of the Granitoid Formations in the Northwestern Region of Spain's Iberian Peninsula.....611
Juan Ramon Vidal Romani, Zhaojun Song, Huimin Liu, Yifang Sun and Haonan Li
- Karst Types and Their Karstification.....621
Márton Veress

No. 4

Mineralogy • Petrology • Mineral Deposits

- Fluid Evolution and Scheelite Precipitation Mechanism of the Large-Scale Shangfang Quartz-Vein-Type Tungsten Deposit, South China: Constraints from Rare Earth Element (REE) Behaviour during Fluid/Rock Interaction.....635
Runsheng Chen, Lüyun Zhu, Shao-Yong Jiang, Ying Ma and Qinghai Hu
- Geochemistry of the Mesoproterozoic Intrusions, Geochronology and Isotopic Constraints on the Xiaonanshan Cu-Ni Deposit along the Northern Margin of the North China Craton.....653
Zhiguang Zhou, Jiangwei Wu, Yi Niu, Guosheng Wang, Chen Wu, Changfeng Liu and Juncheng Ju
- A New Discovery of Ag-Pb-Zn Mineralization via Modern Portable Analytical Technology and Stream Sediment Data Processing Methods in Dajiacuo Area, Western Tibet (China).....668
Xiaojia Jiang, Xin Chen, Shunbao Gao, Youye Zheng, Huan Ren, Denghui Han, Chenchen Yan and Junsheng Jiang
- Electrical Conductivity of Eclogite, Amphibolite and Garnet-Quartz-Mica Schist with Implications for the Conductivity in the Qiangtang Terrane of Northern Tibetan Plateau.....683
Yi Cao, Xinzhan Guo and Jinxue Du
- Petrogenesis of the Granites in the Yandangshan Area, Southeastern China: Constraints from SHRIMP U-Pb Zircon Age and Trace Elements, and Sr-Nd-Hf Isotopic Data.....693
Yaqin Luo, Haiyan Qin, Tao Wu and Zilong Li
- Experimental Constraints on Formation of Low-Cr[#] Chromitite: Effect of Variable H₂O and Cr₂O₃ on Boninitic-Magma and Harzburgite Reactions.....709
Yage Zhao, Yanfei Zhang, Chao Wang, Zhenmin Jin and Qijin Xu

Geotectology

Late Cenozoic Activity of the Tashkurgan Normal Fault and

Implications for the Origin of the Kongur Shan Extensional System, Eastern Pamir.....	723
<i>Shenqiang Chen and Hanlin Chen</i>	
Cenozoic Uplift of the Central Yunnan Fragment, Southwestern China, Revealed by Apatite (U-Th)/He Dating.....	735
<i>Ke Wu, Youpu Dong, Jiaxin Duan, Xin Ru, Dongyue Zhang and Dan Wang</i>	
Tectonic Evolution of Southeast Central Asian Orogenic Belt:	
Evidence from Geochronological Data and Paleontology of the Early Paleozoic Deposits in Inner Mongolia.....	743
<i>Shijie Wang, Shichao Li, Wenjie Li, Zhongyuan Xu, Jinfeng Zhang, Changhai Li, Qiang Shi, Yang Liu, Wenlong Wang and Qingbin Guan</i>	
Provenance Analyses of Lower Cretaceous Strata in the Liupanshan Basin:	
From Paleocurrents Indicators, Conglomerate Clast Compositions, and Zircon U-Pb Geochronology.....	757
<i>Xiaochen Zhao, Chiyang Liu, Jianqiang Wang, Wei Luo, Fangpeng Du and Li Ma</i>	
Mesozoic Thrust-Nappe and Extensional Structure Frameworks in	
the East Segment of Southeast Yangtze Block, Southeast China.....	772
<i>Xinqi Yu, Ziwei Chen, Jun Hu, Yan Zeng, Xiu Liu, Yu He, Zishen Wang and Linghui Meng</i>	
Influence of Mechanical Stratigraphy on the Deformation Evolution of Fold-Thrust Belts:	
Insights from the Analogue Modeling of Eastern Sichuan-Western Hunan and Hubei, South China.....	795
<i>Wengang He</i>	

Marine Geology

Depositional Characteristics and Formation Mechanisms of Deep-Water Canyon Systems along the Northern South China Sea Margin.....	808
<i>Hui Chen, Xinong Xie, Kainan Mao, Yunlong He, Ming Su and Wenyan Zhang</i>	
Coupling Relationship between Shelf-Edge Trajectories and Slope Morphology and Its Implications for Deep-Water Oil and Gas Exploration: A Case Study from the Passive Continental Margin, East Africa.....	820
<i>Mengtian Gao, Shang Xu, Haiteng Zhuo, Yuxuan Wang and Shaobo Wu</i>	

Environmental Geochemistry and Environmental Geo-hazards

The Environmental Functions and Ecological Effects of Organic Carbon in Silt.....	834
<i>Rui Liu, Teng Ma, Wenkai Qiu, Ziqi Peng and Chenxuan Shi</i>	
Habitat Influence on the Molecular, Carbon and Hydrogen Isotope Compositions of Leaf Wax <i>n</i> -Alkanes in a Subalpine Basin, Central China.....	845
<i>Chaoyang Yan, Yiming Zhang, Yanzhen Zhang, Zhiqi Zhang and Xianyu Huang</i>	
Landslides Triggered by the 3 August 2014 Ludian (China) <i>M</i> _w 6.2 Earthquake: An Updated Inventory and Analysis of Their Spatial Distribution.....	853
<i>Weiyang Wu, Chong Xu, Xiaoqing Wang, Yingying Tian and Fei Deng</i>	

No. 5

Petrology and Ore Deposits

Water-Flux Melting of Amphibolite in Paleozoic Leucogranite from the North Qinling, Central China: Implication for Post Collisional Setting.....	867
<i>Jiangbo Wang, Tong Li, Yan Zhang and Weihong Li</i>	
Hisingerite in Trachydacite from Tarim: Implications for Voluminous Felsic Rocks in Transitional Large Igneous Province.....	875
<i>Mingde Lang, Zhiguo Cheng, Zhaochong Zhang, Fangyue Wang, Qian Mao and M. Santosh</i>	
Genesis of Manganese Deposits in the Ali Khanzai Block of the Zhob Ophiolite, Pakistan:	
Inferences from Geochemistry and Mineralogy.....	884
<i>Muhammad Ayoub Khan, Muhammad Ishaq Kakar, Thomas Ulrich, Liaqat Ali, Andrew C. Kerr, Khalid Mahmood and Rehanul Haq Siddiqui</i>	

Structural Geology

Detrital Zircon Fission-Track Thermochronology of the Present-Day River Drainage System in the Mt. Kailas Area, Western Tibet: Implications for Multiple Cooling Stages of the Gangdese Magmatic Arc.....	896
---	-----

Tianyi Shen and Guocan Wang

Post-Orogenic Tectonic Evolution of the Jiangnan-Xuefeng Orogenic Belt: Insights from Multiple Geochronometric Dating of the Mufushan Massif, South China.....905

Chuanbo Shen, Di Hu, Kyoungwon Min, Chaoqun Yang, Xiaowei Zeng, Hongyang Fu and Xiang Ge

Petroleum, Natural Gas Geology

Comparison of the Petroleum Geology in the Deep-Water Basins between the Passive Margin of Morocco and Its Conjugate Margin of Canada.....919

Chengpeng Song, Shu Jiang, Zhixin Wen and Zhaomin Wang

Diagenetic and Reservoir Quality Variation of Miocene Sandstone Reservoir

Analogues from Three Basins of Southern California, USA.....930

Sunday E. Okunuwadje, David MacDonald and Stephen Bowden

Seismogeology

Campus Vibration in Nanwangshan Campus, China University of Geosciences at Wuhan Monitored by Short-Period Seismometers.....950

Lihui Wu, Dun Wang, Ziguang Lei, Jing Fu, Shuai Min, Xianbing Xu and Sarina Bao

Nanoparticles Study on the Indosinian Xiaomei Shear Zone in the Hainan Island, China: Implication to Developmental Stage and Formation Mechanism of Nanoparticles in a Fault Zone.....957

Yang Zhou, Baoyun Shen, Yi Yan, Hailing Liu and Yan Yan

Late Quaternary Tectonic Activity and Slip Rates of Active Faults in the Western Hexi Corridor, NW China.....968

Xingwang Liu, Daoyang Yuan, Qi Su and Bo Zhang

Responses of Stream Geomorphic Indices to Piedmont Fault Activity in the Daqingshan Area of China.....978

Junyi Wang and Zhongtai He

Definition of the Seismic Field of the Underground Sources in the Ambient Seismic Noise in the Tien Shan Region Using a Three-Component Gradient System.....988

Anatoly Kuzmich Rybin, Elena Anatol'evna Bataleva, Kseniia Sergeevna Nepeina, Pavel Alexandrovich Kaznacheev,

Pavel Alexandrovich Matiukov and Pavel Nikolaevich Aleksandrov

Hydrogeology and Environmental Geology

Contribution of Hydrogeochemical and Isotopic Tools to the Management of Upper and Middle Cheliff Aquifers.....993

Madene Elaid, Meddi Hind, Boufekane Abdelmadjid and Meddi Mohamed

Quantification of the Mixture of Hydrothermal and Fresh Water in Tectonic Valleys.....1007

Janete Moran-Ramírez, José Iván Morales-Arredondo, Maria Aurora Armienta-Hernández and José Alfredo Ramos-Leal

Surface Water and Groundwater Interactions in Wetlands.....1016

Xiancang Wu, Teng Ma and Yanxin Wang

A 2000 Year Multi-Proxy Evidence of Natural/Anthropogenic Influence on Climate from the Southwest Coast of India.....1029

M. C. Manoj, Jyoti Srivastava, Prem Raj Uddandam and Biswajeet Thakur

Compaction Simulator: A Novel Device for Pressure Experiments of Subsurface Sediments.....1045

Yanjun Liu, Teng Ma, Juan Chen and Ziqi Peng

No. 6

Special Column on Advances in Evaluation and Mitigation of Geohazards Related to Unstable Slopes

A Predictive, Two-Parameter Model for the Movement of Reservoir Landslides.....1051

Robert E. Criss, Wenmin Yao, Changdong Li and Huiming Tang

Reservoir Regulation for Control of an Ancient Landslide Reactivated by Water Level Fluctuations in Heishui River, China.....1058

Jian Guo, Mo Xu, Qiang Zhang, Xianxuan Xiao, Shishu Zhang and Shaoming He

An Optimized Random Forest Model and Its Generalization Ability in Landslide Susceptibility Mapping:

Application in Two Areas of Three Gorges Reservoir, China1068

<i>Deliang Sun, Jiahui Xu, Haijia Wen and Yue Wang</i>	
Geometry and Maximum Width of a Stable Slope Considering the Arching Effect.....	1087
<i>Kun Fang, Huiming Tang, Xuexue Su, Wentao Shang and Shenglong Jia</i>	
Large-Scale Test Model of the Progressive Deformation and Failure of Cracked Soil Slopes.....	1097
<i>Zhi Zhou, Jiaming Zhang, Fulong Ning, Yi Luo, Lily Chong and Kuangbiao Sun</i>	
Model Test of Deformation Evolution and Multi Factor Prediction of	
Anchorage Slope Stability under Rainfall Condition.....	1109
<i>Tingyao Wu, Jianhong Jia, Nan Jiang, Chuanbo Zhou, Xuedong Luo and Yuqing Xia</i>	
Slope Stability Analysis Based on Group Decision Theory and Fuzzy Comprehensive Evaluation.....	1121
<i>Peng Xia, Xinli Hu, Shuangshuang Wu, Chunye Ying and Chang Liu</i>	
Discharge-Stage Relationship on Urban Streams Evaluated at USGS Gauging Stations, St. Louis, Missouri.....	1133
<i>Robert E. Criss and David L. Nelson</i>	

Do Supercontinent-Superplume Cycles Control the Growth and Evolution of Continental Crust?.....	1142
<i>Xuan-Ce Wang, Simon A. Wilde, Zheng-Xiang Li, Shaojie Li and Linlin Li</i>	
Effects of Water on the Rheology of Dominant Minerals and Rocks in the Continental Lower Crust: A Review.....	1170
<i>Zhonghang Wang, Feng Shi and Junfeng Zhang</i>	
An Investigation of Dislocation in Olivine Phenocrysts from the Hawaiian Basalts.....	1183
<i>Zhuo-Yue Li, Da-Peng Wen, Yong-Feng Wang and Xiangwen Liu</i>	
Crystal Structure, Thermal Expansivity and High-Temperature Vibrational Spectra on Natural Hydrous Rutile.....	1190
<i>Sha Wang, Jinhua Zhang, Joseph R. Smyth, Junfeng Zhang, Dan Liu, Xi Zhu, Xiang Wang and Yu Ye</i>	
Origin and Tectonic Implications of Post-Orogenic Lamprophyres in the Sulu Belt of China.....	1200
<i>Songjie Wang, Lu Wang, Yue Ding and Zhuocheng Wang</i>	
Geochronology and Geochemistry of the 890 Ma I-Type Granites in the Southwestern Yangtze Block:	
Petrogenesis and Crustal Evolution.....	1216
<i>Jibiao Zhang, Xiaozhong Ding, Yanxue Liu, Heng Zhang, Chenglong Shi and Yu Zou</i>	
Microstructure Characterization of a Biogenic Shale Gas Formation—Insights from the Antrim Shale, Michigan Basin.....	1229
<i>Kouqi Liu, Natalia Zakharova, Thomas Gentzis, Adedoyin Adeyilola, Humberto Carvajal-Ortiz and Hallie Fowler</i>	
Microscopic and Fractal Characterization of Organic Matter within Lacustrine Shale Reservoirs in	
the First Member of Cretaceous Qingshankou Formation, Songliao Basin, Northeast China.....	1241
<i>Bo Liu, Meng Yan, Xianda Sun, Yunfeng Bai, Longhui Bai and Xiaofei Fu</i>	
Mixing Characteristics of Oil Inclusions with Different Thermal Maturities in the Wenliu Uplift, Dongpu Depression,	
Bohai Bay Basin, North China.....	1251
<i>Xiuyan Liu, Honghan Chen, Xuewei Xiao, Hongan Zhang and Tianwu Xu</i>	
An Integrated Mass Balance Approach for Assessing Hydrocarbon Resources in a Liquid-Rich Shale Resource Play:	
An Example from Upper Devonian Duvernay Formation, Western Canada Sedimentary Basin.....	1259
<i>Zhuoheng Chen and Chunqing Jiang</i>	
Characteristics of the Cretaceous Magmatism in Huanghua Depression and	
Their Relationships with Hydrocarbon Enrichment.....	1273
<i>Fengming Jin, Jian Huang, Xiugang Pu, Changqian Ma, Lixin Fu, Chongbiao Leng, Da Lou and Mutian Qin</i>	
ERRATUM I.....	I
List of Publication for <i>Journal of Earth Science</i> in 2020.....	II