2021年以表生实验室为第一单位或通讯单位发表的SCI论文

作者	题目	期刊	卷/期	DOI
Xia, Liuwen; Cao, Jian; Hu, Wenxuan; Zhi, Dongming; Tang, Yong; Li, Erting; He, Wenjun	Coupling of paleoenvironment and biogeochemistry of deep-time alkaline lakes: A lipid biomarker perspective	EARTH-SCIENCE REVIEWS	213	https//doi.org/10.1016/j.earscirev.2020.103499
Li, Gen K.; Fischer, Woodward W.; Lamb, Michael P.; West, A. Joshua; Zhang, Ting; Galy, Valier; Wang, Xingchen Tony; Li, Shilei; Qiu, Hongrui; Li, Gaojun	Coal fly ash is a major carbon flux in the Chang Jiang (Yangtze River) basin	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	118（21）	https//doi.org/10.1073/pnas.1921544118
Li, Shilei; Goldstein, Steven L.; Raymo, Maureen E.	Neogene continental denudation and the beryllium conundrum	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	118（42）	https//doi.org/10.1073/pnas.2026456118
Li, Xiaohui; Gao, Bin; Xu, Hongxia; Sun, Yuanyuan; Shi, Xiaoqing; Wu, Jichun	Effect of root exudates on the stability and transport of graphene oxide in saturated porous media	JOURNAL OF HAZARDOUS MATERIALS	413	https//doi.org/10.1016/j.jhazmat.2021.125362
Li, Zhengyu; Lyu, Xueyan; Gao, Bin; Xu, Hongxia; Wu, Jichun; Sun, Yuanyuan	Effects of ionic strength and cation type on the transport of perfluorooctanoic acid (PFOA) in unsaturated sand porous media	JOURNAL OF HAZARDOUS MATERIALS	403	https//doi.org/10.1016/j.jhazmat.2020.123688
Ren, Chao; Zhou, Mengzi; Liu, Zhengmao; Liang, Lixin; Li, Xiaozhan; Lu, Xiancai; Wang, Hongtao; Ji, Junfeng; Peng, Luming; Hou, Guangjin; Li, Wei	Enhanced Fluoride Uptake by Layered Double Hydroxides under Alkaline Conditions: Solid-State NMR Evidence of the Role of Surface >MgOH Sites	ENVIRONMENTAL SCIENCE & TECHNOLOGY	55（22）	https//doi.org/10.1021/acs.est.1c01247
Wang, Chuan; Xie, Yueqing; Liu, Shaoda; McCallum, James L.; Li, Qing; Wu, Jichun	Effects of diffuse groundwater discharge, internal metabolism and carbonate buffering on headwater stream CO2 evasion	SCIENCE OF THE TOTAL ENVIRONMENT	777	https//doi.org/10.1016/j.scitotenv.2021.146230

Wu, Weihua; Qu, Shuyi; Nel, Werner; Ji, Junfeng	The influence of natural weathering on the behavior of heavy metals in small basaltic watersheds: A comparative study from different regions in China	CHEMOSPHERE	262	https//doi.org/10.1016/j.chemosphere.2020.127897
Yang, Yun; Song, Jian; Simmons, Craig T.; Ataie-Ashtiani, Behzad; Wu, Jianfeng; Wang, Jinguo; Wu, Jichun	A conjunctive management framework for the optimal design of pumping and injection strategies to mitigate seawater intrusion	JOURNAL OF ENVIRONMENTAL MANAGEMENT	282	https//doi.org/.1016/j.jenvman.2021.111964
Zhang, Bolin; Wignall, Paul B.; Yao, Suping; Hu, Wenxuan; Liu, Biao	Collapsed upwelling and intensi fi ed euxinia in response to climate warming during the Capitanian (Middle Permian) mass extinction	GONDWANA RESEARCH	89	https://doi.org/10.1016/j.gr.2020.09.003
Kang, Xueyuan; Kokkinaki, Amalia; Power, Christopher; Kitanidis, Peter K.; Shi, Xiaoqing; Duan, Limin; Liu, Tingxi; Wu, Jichun	Integrating deep learning-based data assimilation and hydrogeophysical data for improved monitoring of DNAPL source zones during remediation	JOURNAL OF HYDROLOGY	601	https//doi.org/10.1016/j.jhydrol.2021.126655
Guo, Qiongze; Shi, Xiaoqing; Kang, Xueyuan; Hao, Shefeng; Liu, Ling; Wu, Jichun	Evaluation of the benefits of improved permeability estimation on high-resolution characterization of DNAPL distribution in aquifers with low-permeability lenses	JOURNAL OF HYDROLOGY	603	https//doi.org/10.1016/j.jhydrol.2021.126955
Dai, Xin; Xie, Yueqing; Simmons, Craig T.; Berg, Steve; Dong, Yanhui; Yang, Jie; Love, Andrew J.; Wang, Chuan; Wu, Jichun	Understanding topography-driven groundwater flow using fully-coupled surface-water and groundwater modeling	JOURNAL OF HYDROLOGY	594	https//doi.org/10.1016/j.jhydrol.2020.125950
Zhang, Yanhong; Wu, Jichun; Ye, Shujun	Quantification of the fluid saturation of three phases of NAPL/Water/Gas in 2D porous media systems using a light transmission technique	JOURNAL OF HYDROLOGY	597	https//doi.org/10.1016/j.jhydrol.2020.125718
Yang, Ping; Ye, Shujun; Sleep, Brent	The impacts of microbial growth and biogenic gas generation on the dispersivity of porous media during anaerobic biodegradation	JOURNAL OF HYDROLOGY	593	https//doi.org/10.1016/j.jhydrol.2020.125875
Qiu, Rujian; Wang, Yuankun; Rhoads, Bruce; Wang, Dong; Qiu, Wenjie; Tao, Yuwei; Wu, Jichun	River water temperature forecasting using a deep learning method	JOURNAL OF HYDROLOGY	595	https//doi.org/10.1016/j.jhydrol.2021.126016

Tao, Yuwei; Wang, Yuankun; Wang, Dong; Ni, Lingling; Wu, Jichun	A C-vine copula framework to predict daily water temperature in the Yangtze River	JOURNAL OF HYDROLOGY	598	https//doi.org/10.1016/j.jhydrol.2021.126430
Wang, Zhenchen; Yang, Yun; Chen, Gan; Wu, Jianfeng; Wu, Jichun	Variation of lake-river-aquifer interactions induced by human activity and climatic condition in Poyang Lake Basin, China	JOURNAL OF HYDROLOGY	595	https//doi.org/10.1016/j.jhydrol.2021.126058
Yin, Ziyue; Luo, Qiankun; Wu, Jianfeng; Xu, Shaohui; Wu, Jichun	Identification of the long-term variations of groundwater and their governing factors based on hydrochemical and isotopic data in a river basin	JOURNAL OF HYDROLOGY	592	https//doi.org/10.1016/j.jhydrol.2020.125604
Li, Heshu; Wang, Dong; Singh, Vijay P.; Wang, Yuankun; Wu, Jianfeng; Wu, Jichun	Developing an entropy and copula-based approach for precipitation monitoring network expansion	JOURNAL OF HYDROLOGY	598	https//doi.org/10.1016/j.jhydrol.2021.126366
Ju, Xiaopei; Wang, Yuankun; Wang, Dong; Singh, Vijay P.; Xu, Pengcheng; Wu, Jichun; Ma, Tao; Liu, Jiufu; Zhang, Jianyun	A time-varying drought identification and frequency analyzation method: A case study of Jinsha River Basin	JOURNAL OF HYDROLOGY	603	https//doi.org/0.1016/j.jhydrol.2021.126864
Xu, Pengcheng; Wang, Dong; Wang, Yuankun; Qiu, Jianchun; Singh, Vijay P.; Ju, Xiaopei; Zhang, Along; Wu, Jichun; Zhang, Changsheng	Time-varying copula and average annual reliability-based nonstationary hazard assessment of extreme rainfall events	JOURNAL OF HYDROLOGY	603	https//doi.org/0.1016/j.jhydrol.2021.126792
Pan, Yue ; Zeng, Xiankui; Xu, Hongxia; Sun, Yuanyuan; Wang, Dong; Wu, Jichun	Evaluation of Gaussian process regression kernel functions for improving groundwater prediction	JOURNAL OF HYDROLOGY	603	https//doi.org/0.1016/j.jhydrol.2021.126960
Zhu, Chen; Chen, Tianyu; Zhao, Liang	Magnesium partitioning into vaterite and its potential role as aprecursor phase in foraminiferal Mg/Ca thermometer	EARTH AND PLANETARY SCIENCE LETTERS	567	https//doi.org/10.1016/j.epsl.2021.116989

Kang, Xueyuan; Kokkinaki, Amalia; Kitanidis, Peter K.; Shi, Xiaoqing; Lee, Jonghyun; Mo, Shaoxing;Wu, Jichun	Hydrogeophysical Characterization of Nonstationary DNAPL Source Zones by Integrating a Convolutional Variational Autoencoder and Ensemble Smoother	WATER RESOURCES RESEARCH	57（2）	https//doi.org/10.1029/2020WR028538
Sun, Xiaozhuo; Zeng, Xiankui; Wu, Jichun; Wang, Dong	A Two-stage bayesian data-driven method to improve model prediction	WATER RESOURCES RESEARCH	57（12）	https//doi.org/10.1029/2021WR030436
Zhu, Xiaoyu; Liu, Lianwen; Wang, Xiaoyong; Ji, Junfeng	The Sr-Nd isotope geochemical tracing of Xiashu Loess and its implications for the material transport mechanism of the Yangtze River	CATENA	203	https//doi.org/10.1016/j.catena.2021.105335
Meng, Xianqiang; Liu, Lianwen; Miao, Xiaodong; Zhao, Wancang; Zhang, Enlou; Ji, Junfeng	Significant influence of Northern Hemisphere high latitude climate on appeared precession rhythm of East Asian summer monsoon after Mid-Brunhes Transition interglacials recorded in the Chinese loess	CATENA	197	https//doi.org/10.1016/j.catena.2020.105002
Li, Zi-bo; Liu, Lianwen; Lu, Xiancai; Ji, Junfeng; Chen, Jun	Analysis of the Talaromyces flavus exometabolome reveals the complex responses of the fungus to minerals	GEOCHIMICA ET COSMOCHIMICA ACTA	298	https//doi.org/10.1016/j.gca.2021.01.036
Mo, Xinxin; Siebecker, Matthew G.; Gou, Wenxian; Li, Wei	EXAFS investigation of Ni(II) sorption at the palygorskite-solution interface: New insights into surface-induced precipitation phenomena	GEOCHIMICA ET COSMOCHIMICA ACTA	314	https//doi.org/10.1016/j.gca.2021.09.012
Da, Jiawei; Li, Gen K.; Ji, Junfeng	Overestimate of C_4 Plant Abundance Caused by Soil Degradation-Induced Carbon Isotope Fractionation	GEOPHYSICAL RESEARCH LETTERS	48（24）	https//doi.org/10.1029/2021GL093407
Xie, Wenyi; Zeng, Xiankui; Gui, Dongwei; Wu, Jichun; Wang, Dong	Modeling the Snowmelt Runoff Process of the Tizinafu River Basin, Northwest China, with GLDAS Data and Bayesian Uncertainty Analysis	JOURNAL OF HYDROMETEOROLOGY	22（1）	https//doi.org/10.1175/JHM-D-20-0162.1
Wang, Tingting; Cao, Jian; Jin, Jun; Xia, Liuwen; Xiang, Baoli; Ma, Wanyun; Li, Wenwen; He, Wenjun	Spatiotemporal evolution of a Late Paleozoic alkaline lake in the Junggar Basin, China	MARINE AND PETROLEUM GEOLOGY	124	https//doi.org/10.1016/j.marpetgeo.2020.104799

Qin, Yang; Yao, Suping; Xiao, Hanmin; Cao, Jian; Hu, Wenxuan; Sun, Linghui; Tao, Keyu; Liu, Xuewei	Pore structure and connectivity of tight sandstone reservoirs in petroleum basins: A review and application of new methodologies to the Late Triassic Ordos Basin, China	MARINE AND PETROLEUM GEOLOGY	129	https//doi.org/10.1016/j.marpetgeo.2021.105084
Liu, Huan; Cui, Xiangjie; Lu, Xiancai; Liu, Xin; Zhang, Lijuan; Chan, Ting-Shan	Mechanism of Mn incorporation into hydroxyapatite: Insights from SR-XRD, Raman, XAS, and DFT calculation	CHEMICAL GEOLOGY	579	https//doi.org/10.1016/j.chemgeo.2021.120354
Ren, Chao; Li, Yong-fang; Zhou, Qiang; Li, Wei	Phosphate uptake by calcite: Constraints of concentration and pH on the formation of calcium phosphate precipitates	CHEMICAL GEOLOGY	579	https//doi.org/10.1016/j.chemgeo.2021.120365
Xiao, Wenyao; Cao, Jian; Liao, Zhiwei; Hu, Guang; Zuo, Zhaoxi; Hu, Kai	Elemental geochemistry proxies recover original hydrogen index values and total organic carbon contents of over-mature shales: Lower Cambrian South China	CHEMICAL GEOLOGY	562	https//doi.org/10.1016/j.chemgeo.2020.120049
Li, Zi-bo; Liu, Lianwen; Lu, Xiancai; Zhao, Liang; Ji, Junfeng; Chen, Jun	Mineral foraging and etching by the fungus Talaromyces flavus to obtain structurally bound iron	CHEMICAL GEOLOGY	586	https//doi.org/10.1016/j.chemgeo.2021.120592
Mo, Xinxin; Siebecker, Matthew G.; Gou, Wenxian; Li, Ling; Li, Wei	A review of cadmium sorption mechanisms on soil mineral surfaces revealed from synchrotron-based X-ray absorption fine structure spectroscopy: Implications for soil remediation	PEDOSPHERE	31 (1)	https//doi.org/10.1016/S1002-0160(20)60017-0
Gao, Guohui; Cao, Jian; Hu, Kai; Xu, Tianwu; Zhang, Hongan; Zhang, Yunxian	Application of Nuclear Magnetic Resonance (NMR) Spectroscopy to Lacustrine Kerogen Geochemistry: Paleogene Dongpu Sag, China	ENERGY & FUELS	35 (2)	https//doi.org/10.1021/acs.energyfuels.0c03382
Wang, Zhao; Jiang, Yunbin; Mo, Xinxin; Gu, Xueyuan; Li, Wei	Speciation transformation of Pb during palygorskite sorption-calcination process: Implications for Pb sequestration	APPLIED GEOCHEMISTRY	124	https//doi.org/10.1016/j.apgeochem.2020.104850
Liu, Yang; Yao, Suping; Xu, Chang	Structural Evolution of Hydrocarbon-Rich Coal of the Late Carboniferous Taiyuan Formation in Dongpu Sag	ACS OMEGA	6 (3)	https//doi.org/10.1021/acsomega.0c05501
Li, Kaixuan; Wu, Jichun; Nan, Tongchao; Zeng, Xiankui; Yin, Lihe; Zhang, Jun	Analysis of heterogeneity in a sedimentary aquifer using Generalized sub-Gaussian model based on logging resistivity	STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT	36 (3)	https//doi.org/10.1007/s00477-021-02054-5

Hu, Haoxin; Zeng, Xiankui; Cai, Xing; Gui, Dongwei; Wu, Jichun; Wang, Dong	Evaluating the downscaling uncertainty of hydrometeorological data in snowmelt runoff simulation	STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT	36 (9)	https//doi.org/10.1007/s00477-021-02143-5
Wang, Yuce; Cao, Jian; Tao, Keyu; Xiao, Wenyao; Xiang, Baoli; Li, Erting; Pan, Changchun	Absence of β-carotane as proxies of hydrothermal activity in brackish lacustrine sediments	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	587	https//doi.org/10.1016/j.palaeo.2021.110801
Pang, Yang; Zhou, Bin; Zhou, Xin; Xu, XiangChun; Liu, XiaoYan; Zhan, Tao; Lu, YueHan	Abundance and δ13C of sedimentary black carbon indicate rising wildfire and C4 plants in Northeast China during the early Holocene	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	562	https//doi.org/10.1016/j.palaeo.2020.110075
Pang, Yang; Zhou, Bin; Ma, ChunMei; Jiang, JiaWei; Taylor, David; Lu, YueHan	Alkane variation in peat reveals palaeohydrological changes since the Little Ice Age in eastern China	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	585	https//doi.org/10.1016/j.palaeo.2021.110727
Guo, Qiongze; Shi, Xiaoqing; Kang, Xueyuan; Chang, Yong; Wang, Pei; Wu, Jichun	Integrating hydraulic tomography, electrical resistivity tomography, and partitioning interwell tracer test datasets to improve identification of pool-dominated DNAPL source zone architecture	JOURNAL OF CONTAMINANT HYDROLOGY	241	https//doi.org/10.1016/j.jconhyd.2021.103809
Lan, Tian; Shi, Xiaoqing; Chen, Yan; Li, Liangping; Wu, Jichun; Duan, Limin; Liu, Tingxi	Identification of non-Gaussian parameters in heterogeneous aquifers by a modified probability conditioning method through hydraulic-head assimilation	HYDROGEOLOGY JOURNAL	29 (2)	https//doi.org/10.1007/s10040-020-02243-6
Xue, Sen; Wang, Chen; Wu, Yanli; Zhou, Qiyou; Song, Zhen; Wu, Yun	Revised zoning method for environmental fragility evaluation to desertification in arid-semiarid areas: a case of Dousitu river basin	ENVIRONMENTAL EARTH SCIENCES	80 (17)	https//doi.org/10.1007/s12665-021-09819-9
Sun, Jia; Ma, Chunmei; Zhou, Bin; Jiang, Jiawei; Zhao, Cheng	Biogeochemical evidence for environmental and vegetation changes in peatlands from the middle Yangtze river catchment during the medieval warm period and little ice Age	HOLOCENE	31 (10)	https//doi.org/10.1177/09596836211025966
Jiang, Jianguo; Wu, Jichun	Interpolation for the lattice-Boltzmann method to simulate colloid transport in porous media	PHYSICAL REVIEW E	103 (5)	https//doi.org/10.1103/PhysRevE.103.053309
Chen, Shuai; Ruan, Xiaohong	Annual nitrate load patterns in an agricultural watershed in consecutive dry years	HYDROLOGY RESEARCH	52 (4)	https//doi.org/10.2166/nh.2021.135

Zhang, Menglong; Zhao, Liang; Li, Gen K.; Zhu, Chen; Dong, Sijia; Li, Zibo; Tang, Chaosheng; Ji, Junfeng; Chen, Jun	Microbially Induced Magnesium Carbonate Precipitation and its Potential Application in Combating Desertification	GEOMICROBIOLOGY JOURNAL	38（6）	https//doi.org/I10.1080/01490451.2021.1900461
Li, Wei; Shi, Jianbo; Huang, Lei; Luo, Xiaosan; Lei, Pei	Linking Environmental Science with Geochemistry	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	106（1）	https//doi.org/0.1007/s00128-020-03085-4
Zhang, Liyang; Xiao, Jian; Ji, Junfeng; Liu, Yuanyuan	Arsenate Adsorption on Different Fractions of Iron Oxides in the Paddy Soil from the Karst Region of China	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	106（1）	https//doi.org/10.1007/s00128-020-02925-7
Yang, Yun; Qiu, Wenjie; Liu, Zhengbang; Song, Jian; Wu, Jianfeng; Dou, Zhi; Wang, Jinguo; Wu, Jichun	Quantifying the impact of mineralogical heterogeneity on reactive transport modeling of CO2 + O2 in-situ leaching of uranium	ACTA GEOCHIMICA	41（1）	https//doi.org/10.1007/s11631-021-00502-1
Ma, Tianhai; Bai, Ying; Ruan, Xiaohong	Soil phosphorus composition, loss risk and contribution to the aquatic environment in a typical agricultural area	WATER QUALITY RESEARCH JOURNAL	56（2）	https//doi.org/10.2166/wqrj.2021.004
Zhu, Ning; Yao, Suping; Wang, Xuejun; Xia, Binfeng; Zhang, Yunxian	Integration of NMR and NMRC in the Investigation of the Pore Size Distribution of Tight Sandstone Reservoirs: A Case Study in the Upper Paleozoic of Dongpu Depression	GEOFLUIDS	2021	https//doi.org/10.1155/2021/9169517
Wang Longsheng; Zhou Bin; Zheng Bang; Wang Ke; Mei Xi; Wang Qing; Wang Xiaohui; Zheng Hongbo	High-Resolution Geochemical Records in the Inner Shelf Mud Wedge of the East China Sea and Their Indication to the Holocene Monsoon Climatic Changes and Events	JOURNAL OF OCEAN UNIVERSITY OF CHINA	20（6）	https//doi.org/10.1007/s11802-021-4651-1