

2020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
Li, Tao; Robinson, Laura F.; Chen, Tianyu; Wang, Xingchen T.; Burke, Andrea; Rae, James W. B.; Pegrum-Haram, Albertine; Knowles, Timothy D. J.; Li, Gaojun; Chen, Jun; Ng, Hong Chin; Prokopenko, Maria; Rowland, George H.; Samperiz, Ana; Stewart, Joseph A.; Southon, John; Spooner, Peter T.	Rapid shifts in circulation and biogeochemistry of the Southern Ocean during deglacial carbon cycle events	SCIENCE ADVANCES	6(42)	https://doi.org/10.1126/sciadv.abb3807
Lyu, Xueyan; Liu, Xing; Wu, Xiaoli; Sun, Yuanyuan; Gao, Bin; Wu, Jichun	Importance of Al/Fe oxyhydroxide coating and ionic strength in perfluorooctanoic acid (PFOA) transport in saturated porous media	WATER RESEARCH	175	https://doi.org/10.1016/j.watres.2020.115685
Qiao, Wenjing; Jacome, Luz A. Puentes; Tang, Xianjin; Lomheim, Line; Yang, Mingqing Ivy; Gaspard, Sarra; Avanzi, Ingrid Regina; Wu, Jichun; Ye, Shujun; Edwards, Elizabeth A.	Microbial Communities Associated with Sustained Anaerobic Reductive Dechlorination of α -, β -, γ -, and δ -Hexachlorocyclohexane Isomers to Monochlorobenzene and Benzene	ENVIRONMENTAL SCIENCE & TECHNOLOGY	54(1)	https://doi.org/10.1021/acs.est.9b05558
Qu, Shuyi; Wu, Weihua; Nel, Werner; Ji, Junfeng	The behavior of metals/metalloids during natural weathering: A systematic study of the monolithological watersheds in the upper Pearl River Basin, China	SCIENCE OF THE TOTAL ENVIRONMENT	708	https://doi.org/10.1016/j.scitotenv.2019.134572
Wu, Weihua; Qu, Shuyi; Nel, Werner; Ji, Junfeng	The impact of natural weathering and mining on heavy metal accumulation in the karst areas of the Pearl River Basin, China	SCIENCE OF THE TOTAL ENVIRONMENT	734	https://doi.org/10.1016/j.scitotenv.2020.139480

Du, Wenchao; Liu, Xing; Zhao, Lijuan; Xu, Yanwen; Yin, Ying; Wu, Jichun; Ji, Rong; Sun, Yuanyuan; Guo, Hongyan	Response of cucumber (<i>Cucumis sativus</i>) to perfluorooctanoic acid in photosynthesis and metabolomics	SCIENCE OF THE TOTAL ENVIRONMENT	724	https://doi.org/10.1016/j.scitotenv.2020.138257
Wu, Xiaoli; Lyu, Xueyan; Li, Zhengyu; Gao, Bin; Zeng, Xiankui; Wu, Jichun; Sun, Yuanyuan	Transport of polystyrene nanoplastics in natural soils: Effect of soil properties, ionic strength and cation type	SCIENCE OF THE TOTAL ENVIRONMENT	707	https://doi.org/10.1016/j.scitotenv.2019.136065
Wang, Haoxian; Li, Xuming; Chen, Yang; Li, Zibo; Hedding, David William; Nel, Werner; Ji, Junfeng; Chen, Jun	Geochemical behavior and potential health risk of heavy metals in basalt-derived agricultural soil and crops: A case study from Xuyi County, eastern China	SCIENCE OF THE TOTAL ENVIRONMENT	729	https://doi.org/10.1016/j.scitotenv.2020.139058
Xiong, Guiyao; An, Qingxian; Fu, Tengfei; Chen, Guangquan; Xu, Xingyong	Evolution analysis and environmental management of intruded aquifers of the Dagu River Basin of China	SCIENCE OF THE TOTAL ENVIRONMENT	719	https://doi.org/10.1016/j.scitotenv.2020.137260
Wen, Yubo; Li, Wei; Yang, Zhongfang; Zhang, Qizuan; Ji, Junfeng	Enrichment and source identification of Cd and other heavy metals in soils with high geochemical background in the karst region, Southwestern China	CHEMOSPHERE	245	https://doi.org/10.1016/j.chemosphere.2019.125620
Ni, Lingling; Wang, Dong; Wu, Jianfeng; Wang, Yuankun; Tao, Yuwei; Zhang, Jianyun; Liu, Jiufu; Xie, Fei	Vine copula selection using mutual information for hydrological dependence modeling	ENVIRONMENTAL RESEARCH	186	https://doi.org/10.1016/j.envres.2020.109604
Tao, Yuwei; Wang, Yuankun; Wang, Dong; Ni, Lingling; Wu, Jichun	A probabilistic modeling framework for assessing the impacts of large reservoirs on river thermal regimes – A case of the Yangtze River	ENVIRONMENTAL RESEARCH	183	https://doi.org/10.1016/j.envres.2020.109221
Liu, Wenyue; Wang, Dong; Wang, Yuankun; Zeng, Xiankui; Ni, Lingling; Tao, Yuwei; Wu, Jichun; Liu, Jiufu; Zou, Ying; He, Ruimin; Zhang, Jianyun	Improved comprehensive ecological risk assessment method and sensitivity analysis of polycyclic aromatic hydrocarbons (PAHs)	ENVIRONMENTAL RESEARCH	187	https://doi.org/10.1016/j.envres.2020.109500

Wang, Yuankun; Tao, Yuwei; Sheng, Dong; Zhou, Yuting; Wang, Dong; Shi, Xiaorui; Wu, Jichun; Ma, Xirong	Quantifying the change in streamflow complexity in the Yangtze River	ENVIRONMENTAL RESEARCH	180	https://doi.org/ 10.1016/j.envres. 2019.108833
Li, Heshu; Wang, Dong; Singh, Vijay P.; Wang, Yuankun; Wu, Jianfeng; Wu, Jichun; He, Ruimin; Zou, Ying; Liu, Jiufu; Zhang, Jianyun	Developing a dual entropy- transinformation criterion for hydrometric network optimization based on information theory and copulas	ENVIRONMENTAL RESEARCH	180	https://doi.org/ 10.1016/j.envres. 2019.108813
Wen, Yubo; Li, Wei; Yang, Zhongfang; Zhuo, Xiaoxiong; Guan, Dong-Xing; Song, Yinxian; Guo, Chao; Ji, Junfeng	Evaluation of various approaches to predict cadmium bioavailability to rice grown in soils with high geochemical background in the karst region, Southwestern China	ENVIRONMENTAL POLLUTION	258	https://doi.org/ 10.1016/j.envpo 2019.113645
Lyu, Xueyan; Liu, Xing; Sun, Yuanyuan; Gao, Bin; Ji, Rong; Wu, Jichun; Xue, Yuqun	Importance of surface roughness on perfluorooctanoic acid (PFOA) transport in unsaturated porous media	ENVIRONMENTAL POLLUTION	266	https://doi.org/ 10.1016/j.envpo 2020.115343
Ma, Qiang; Zhao, Wanfu; Guan, Dong-Xing; Teng, H. Henry; Ji, Junfeng; Ma, Lena Q.	Comparing CaCl ₂ , EDTA and DGT methods to predict Cd and Ni accumulation in rice grains from contaminated soils	ENVIRONMENTAL POLLUTION	260	https://doi.org/ 10.1016/j.envpo 2020.114042
Zhang, Bolin; Yao, Suping; Mills, Benjamin J. W.; Wignall, Paul B.; Hu, Wenxuan; Liu, Biao; Ren, Yongle; Li, Lele; Shi, Gang	Middle Permian organic carbon isotope stratigraphy and the origin of the Kamura Event	GONDWANA RESEARCH	79	https://doi.org/ 10.1016/j.gr.20 19.09.013
Gao, Guohui; Cao, Jian; Xu, Tianwu; Zhang, Hongan; Zhang, Yunxian; Hu, Kai	Nuclear magnetic resonance spectroscopy of crude oil as proxies for oil source and thermal maturity based on ¹ H and ¹³ C spectra	FUEL	271	https://doi.org/ 10.1016/j.fuel. 2020.117622
Pan, Yue; Zeng, Xiankui; Xu, Hongxia; Sun, Yuanyuan; Wang, Dong; Wu, Jichun	Assessing human health risk of groundwater DNAPL contamination by quantifying the model structure uncertainty	JOURNAL OF HYDROLOGY	584	https://doi.org/ 10.1016/j.jhydr ol.2020.124690

Ni, Lingling; Wang, Dong; Wu, Jianfeng; Wang, Yuankun; Tao, Yuwei; Zhang, Jianyun; Liu, Jiufu	Streamflow forecasting using extreme gradient boosting model coupled with Gaussian mixture model	JOURNAL OF HYDROLOGY	586	https://doi.org/ 10.1016/j.jhydr ol.2020.124901
Wu, Ming; Yang, Yun; Lin, Jin; Wu, Jianfeng; Wu, Jichun; Hu, Bill X.	The co-effect of heterogeneity and solute concentration on representative elementary volume of DNAPL in groundwater	JOURNAL OF HYDROLOGY	585	https://doi.org/ 10.1016/j.jhydr ol.2020.124795
Wang, Yuankun; Zhang, Nan; Wang, Dong; Wu, Jichun	Impacts of cascade reservoirs on Yangtze River water temperature: Assessment and ecological implications	JOURNAL OF HYDROLOGY	590	https://doi.org/ 10.1016/j.jhydr ol.2020.125240
Tao, Yuwei; Wang, Yuankun; Rhoads, Bruce; Wang, Dong; Ni, Lingling; Wu, Jichun	Quantifying the impacts of the Three Gorges Reservoir on water temperature in the middle reach of the Yangtze River	JOURNAL OF HYDROLOGY	582	https://doi.org/ 10.1016/j.jhydr ol.2019.124476
Liu, Jin; Zeng, Xiankui; Ma, Enze; Wu, Jichun; Zhang, You-Kuan; Sun, Yuanyuan; Liang, Xiuyu; Zheng, Chunmiao	On the nanoparticle transport and release in layered heterogeneous porous media under transient chemical conditions	JOURNAL OF HYDROLOGY	586	https://doi.org/ 10.1016/j.jhydr ol.2020.124889
Kang, Zhiqiang; Chen, Jun; Yuan, Daoxian; He, Shiyi; Li, Yilong; Chang, Yong; Deng, Yan; Chen, Yang; Liu, Yuanyuan; Jiang, Guanghui; Wang, Xinyu; Zhang, Qinjun	Promotion function of forest vegetation on the water & carbon coupling cycle in karst critical zone: Insights from karst groundwater systems in south China	JOURNAL OF HYDROLOGY	590	https://doi.org/ 10.1016/j.jhydr ol.2020.125246
Ni, Lingling; Wang, Dong; Singh, Vijay P. ; Wu, Jianfeng; Wang, Yuankun; Tao, Yuwei; Zhang, Jianyun	Streamflow and rainfall forecasting by two long short- term memory-based models	JOURNAL OF HYDROLOGY	583	https://doi.org/ 10.1016/j.jhydr ol.2019.124296
Nan, Tongchao; Wu, Jichun; Guadagnini, Alberto; Zeng, Xiankui; Liang, Xiuyu	Random walk evaluation of Green's functions for groundwater flow in heterogeneous aquifers	JOURNAL OF HYDROLOGY	588	https://doi.org/ 10.1016/j.jhydr ol.2020.125029

Liu, Wenyue; Wang, Dong; Singh, Vijay P. ; Wang, Yuankun; Zeng, Xiankui; Ni, Lingling; Tao, Yuwei; Wu, Jichun; Liu, Jiufu; Zou, Ying; He, Ruimin; Zhang, Jianyun	A hybrid statistical model for ecological risk integral assessment of PAHs in sediments	JOURNAL OF HYDROLOGY	583	https://doi.org/10.1016/j.jhydr.2020.124612
Xu, Pengcheng; Wang, Dong; Singh, Vijay P. ; Lu, Huayu; Wang, Yuankun; Wu, Jichun; Wang, Lachun; Liu, Jiufu; Zhang, Jianyun	Copula-based seasonal rainfall simulation considering nonstationarity	JOURNAL OF HYDROLOGY	590	https://doi.org/10.1016/j.jhydr.2020.125439
Wu, Ming; Wu, Jianfeng; Wu, Jichun; Hu, Bill X.	A new criterion for determining the representative elementary volume of translucent porous media and inner contaminant	HYDROLOGY AND EARTH SYSTEM SCIENCES	24(12)	https://doi.org/10.5194/hess-24-5903-2020
Song, Jian; Yang, Yun; Sun, Xiaomin; Lin, Jin; Wu, Ming; Wu, Jianfeng; Wu, Jichun	Basin-scale multi-objective simulation-optimization modeling for conjunctive use of surface water and groundwater in northwest China	HYDROLOGY AND EARTH SYSTEM SCIENCES	24(5)	https://doi.org/10.5194/hess-24-2323-2020
Liu, Pan; Kai, Wei; Zhu, Chen; Tang, Yuanzhi; Zhao, Wancang; Cai, Yuanfeng; Cai, Jingong; Ji, Junfeng	Hydrothermal synthesis of chlorite from saponite: Mechanisms of smectite-chlorite conversion and influence of Mg ²⁺ and Al ³⁺ supplies	APPLIED CLAY SCIENCE	184	https://doi.org/10.1016/j.clay.2019.105357
Da, Jiawei; Zhang, Yi Ge; Li, Gen; Ji, Junfeng	Aridity-driven decoupling of $\delta^{13}\text{C}$ between pedogenic carbonate and soil organic matter	GEOLOGY	48(10)	https://doi.org/10.1130/G47241.1
Mo, Shaoxing; Zabaras, Nicholas; Shi, Xiaoqing; Wu, Jichun	Integration of Adversarial Autoencoders With Residual Dense Convolutional Networks for Estimation of Non-Gaussian Hydraulic Conductivities	WATER RESOURCES RESEARCH	56(2)	https://doi.org/10.1029/2019WR026082

Kang, Xueyuan; Kokkinaki, Amalia; Kitanidis, Peter K.; Shi, Xiaoqing; Revil, Andre; Lee, Jonghyun; Ahmed, Abdellahi Soueid; Wu, Jichun	Improved Characterization of DNAPL Source Zones via Sequential Hydrogeophysical Inversion of Hydraulic-Head, Self-Potential and Partitioning Tracer Data	WATER RESOURCES RESEARCH	56 (8)	https://doi.org/ 10.1029/2020WRO 27627
Bao, Rui; Sheng, Xuefen; Li, Chenglong; Shen, Hua; Tan, Liping; Sun, Ling; Li, Chunqian; Peng, Hongke; Luo, Ling; Wu, Min; Lu, Huayu; Ji, Junfeng; Chen, Jun	Effect of altitude on the stable carbon and oxygen isotopic compositions of land snails at the margin of the East Asian monsoon	GEOCHIMICA ET COSMOCHIMICA ACTA	273	https://doi.org/ 10.1016/j.gca.2 020.01.029
Xue, Liang; Liu, Yuetian; Nan, Tongchao; Liu, Qianjun; Jiang, Xieer	An efficient automatic history matching method through the probabilistic collocation based particle filter for shale gas reservoir	JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING	190	https://doi.org/ 10.1016/j.petro l.2020.107086
Wang, Wenqi; Wang, Dong; Singh, Vijay P. ; Wang, Yuankun; Wu, Jichun; Zhang, Jianyun; Liu, Jiufu; Zou, Ying; He, Ruimin	Information theory-based multi- objective design of rainfall network for streamflow simulation	ADVANCES IN WATER RESOURCES	135	https://doi.org/ 10.1016/j.advwa tres.2019.10347 6
Xu, Chang; Yao, Suping; Song, Di; Liu, Yang	Types, chemical and porosity characteristics of hydrocarbon- generating organisms of the lower Paleozoic, south China-Taking Longmaxi Formation and Qiongzhusi Formation in Sichuan Basin as examples	MARINE AND PETROLEUM GEOLOGY	119	https://doi.org/ 10.1016/j.marpe tgeo.2020.10450 8
Wen, Zhang; Nan, Shan; Ying, Bai; Lin, Yin	The innovative application of agriculture straw in in situ field permeable reactive barrier for remediating nitrate- contaminated groundwater in grain-production areas	BIOCHEMICAL ENGINEERING JOURNAL	164	https://doi.org/ 10.1016/j.bej.2 020.107755
Deng, Yaping; Shi, Xiaoqing; Zhang, Zhenyu; Sun, Yuanyuan; Wu, Jichun; Qian, Jiazhong	Application of spectral induced polarization for characterizing surfactant-enhanced DNAPL remediation in laboratory column experiments	JOURNAL OF CONTAMINANT HYDROLOGY	230	https://doi.org/ 10.1016/j.jconh yd.2020.103603

Hu, YuanFeng; Zhou, Bin; Lu, YueHan; Zhang, JianPing; Min, SiYu; Dai, MingZhe; Xu, SiYu; Yang, Qing; Zheng, HongBo	Abundance and morphology of charcoal in sediments provide no evidence of massive slash-and-burn agriculture during the Neolithic Kuahuqiao culture, China	PLOS ONE	15 (8)	https://doi.org/10.1371/journal.pone.0237592
Zhang, Lihu; Lu, Xiancai; Liu, Xiandong; Li, Qin; Cheng, Yongxian; Hou, Qingfeng	Molecular dynamics simulation of CO ₂ -switchable surfactant regulated reversible emulsification/demulsification processes of a dodecane-saline system	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22 (41)	https://doi.org/10.1039/d0cp03904g
Xia, Liuwen; Cao, Jian; Lee, Carina; Stueken, Eva E.; Zhi, Dongming; Love, Gordon D.	A new constraint on the antiquity of ancient haloalkaliphilic green algae that flourished in a ca. 300 Ma Paleozoic lake	GEOBIOLOGY	19 (2)	https://doi.org/10.1111/gbi.12423
Luo, Ran; Li, Xiaohui; Xu, Hongxia; Sun, Yuanyuan; Wu, Jichun	Effects of Temperature, Solution pH, and Ball-Milling Modification on the Adsorption of Non-steroidal Anti-inflammatory Drugs onto Biochar	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	105 (3)	https://doi.org/10.1007/s00128-020-02948-0
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
Li, Chenglong; Shen, Hua; Sheng, Xuefen; Wei, Haizhen; Chen, Jun	Kinetics and fractionation of carbon and oxygen isotopes during the solid-phase transformation of biogenic aragonite to calcite: The effect of organic matter	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	556	https://doi.org/10.1016/j.palaeo.2020.109876
Zhang, Jingkun; Cao, Jian; Xia, Liuwen; Xiang, Baoli; Li, Erting	Investigating biological nitrogen cycling in lacustrine systems by FT-ICR-MS analysis of nitrogen-containing compounds in petroleum	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	556	https://doi.org/10.1016/j.palaeo.2020.109887
Liu, Jinchao; Cao, Jian; Hu, Guang; Wang, Yan; Yang, Ruofei; Liao, Zhiwei	Water-level and redox fluctuations in a Sichuan Basin lacustrine system coincident with the Toarcian OAE	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	558	https://doi.org/10.1016/j.palaeo.2020.109942
Li, Yong-Xiang; Gill, Benjamin; Montanez, Isabel P.; Ma, Lifeng; LeRoy, Matthew; Kodama, Kenneth P.	Orbitally driven redox fluctuations during Cretaceous Oceanic Anoxic Event 2 (OAE2) revealed by a new magnetic proxy	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	538	https://doi.org/10.1016/j.palaeo.2019.109465

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
Wang, Yuce; Cao, Jian; Tao, Keyu; Gao, Xiuwei; Li, Erting; Shi, Chunhua	Multivariate Statistical Analysis Reveals the Heterogeneity of Lacustrine Tight Oil Accumulation in the Middle Permian Jimusar Sag, Junggar Basin, NW China	GEOFLUIDS	2020	https://doi.org/10.1155/2020/1860219
Jiang, Yunbin; Zhang, Fengmin; Ren, Chao; Li, Wei	Improvement of quantitative solution ³¹ P NMR analysis of soil organic P: a study of spin-lattice relaxation responding to paramagnetic ions	GEOCHEMICAL TRANSACTIONS	21 (1)	https://doi.org/10.1186/s12932-020-00067-7