

2025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
Da, Jiawei; Zhang, Yi Ge; Liu, Xiaoqing; Breecker, Daniel O.; Li, Gen K.; Chen, Tianyu; Ji, Junfeng	No apparent state-dependency of equilibrium climate sensitivity between the Pleistocene glacial and interglacial climate states	NATURE COMMUNICATIONS	16(1):6608	https://doi.org/10.1038/s41467-025-61941-5
Luo, Bowen; Chen, Kouping; Zheng, Xianwu; Wu, Jichun; Li, Ping; Chen, Huali	Reactive transport and retention of Cd, Pb, and Zn under coexisting multimetal-xanthate conditions in porous media	WATER RESEARCH	288	https://doi.org/10.1016/j.watres.2025.124713
Ren, Jingli; Wang, Jianjun; Dong, Yiran; Xiao, Lin; Wang, Lei; Ji, Junfeng; Liu, Yuanyuan	Microbial community dynamics and its relationship with biogeochemical processes under geochemical perturbations	WATER RESEARCH	289	https://doi.org/10.1016/j.watres.2025.124889
Liu, Mengwen; Xiong, Guiyao; Ke, Yunhao; Wang, Xuebing; Zhu, Xiaobin; Yu, Nanyang; Zhai, Peixiu; Wu, Jianfeng; Wu, Jichun; Wei, Si	Integrating Suspect and Nontarget Screening with Spatial Autocorrelation to Prioritize Emerging Contaminants in a Coastal Urban River	ENVIRONMENTAL SCIENCE & TECHNOLOGY	59(32):1722-17234	https://doi.org/10.1021/acs.est.5c03460
Wei, Ning; Gu, Xueyuan; Wen, Yubo; Guo, Chao; Ji, Junfeng	Geochemical speciation and activation risks of Cd, Ni, and Zn in soils with naturally high background in karst regions of southwestern China	JOURNAL OF HAZARDOUS MATERIALS	486	https://doi.org/10.1016/j.jhazmat.2025.137100
Wang, Ye; Li, Xuming; Li, Shilei; Hedding, David William; Chen, Yang; Chen, Jun	Riverine evidence for the significant anthropogenic impact on sulfur and carbon biogeochemical cycle: A case study from Xijiang River Basin	JOURNAL OF HAZARDOUS MATERIALS	494	https://doi.org/10.1016/j.jhazmat.2025.138424
Geng, Hao; Xiong, Guiyao; Liu, Mengwen; Han, Cong; Cheng, Yi; Wu, Jichun; Cao, Shaohua; Zhu, Xiaobin	The nitrate dynamics affected by land use and saltwater intrusion in the coastal hydrologic interaction systems	JOURNAL OF HAZARDOUS MATERIALS	495	https://doi.org/10.1016/j.jhazmat.2025.138961
Han, Cong; Liu, Mengwen; Zhu, Xiaobin; Xiong, Guiyao; Wu, Jianfeng; Yang, Yun; Wu, Jichun	Three-dimensional spatial heterogeneity and causality of microbial communities in soil and groundwater systems under long-term BTEX exposure	JOURNAL OF CLEANER PRODUCTION	536	https://doi.org/10.1016/j.jclepro.2025.147192

Duan, Yiren; Wang, Zhengrong; Gou, Wenxian; Wang, Zhao; Li, Qingguang; Li, Wei	Stable zinc isotopes as tracers in environmental geochemistry	EARTH-SCIENCE REVIEWS	269	https://doi.org/ 10.1016/j.earsc irev.2025.10518 5
Li, Mingyue; Xie, Yueqing; Song, Jinxi; Wu, Jichun; Zhang, Jun	Revealing groundwater depletion and seasonal dynamics in Northwest China by integrating GRACE with physically based and data-driven modeling	JOURNAL OF HYDROLOGY	666	https://doi.org/ 10.1016/j.jhydr ol.2025.134735
Chu, Tong; Yin, Ziyue; Song, Jian; Wu, Jianfeng; Wu, Jichun	An efficient composite graph theory and machine learning method for estimating fracture equivalent permeability of the three-dimensional fracture networks based on topological parameters	JOURNAL OF HYDROLOGY	652	https://doi.org/ 10.1016/j.jhydr ol.2024.132647
Wang, Ziwei; Ruan, Xiaohong; Le, Fan; Chen, Shuai; Chen, Tong	Multi-element coupling effect of nitrogen cycling in an intensively dam-controlled river system	JOURNAL OF HYDROLOGY	651	https://doi.org/ 10.1016/j.jhydr ol.2024.132648
Su, Jingjing; Liu, Yi; Xie, Yueqing; Gong, Xulong; Chen, Tianyu; Zhang, Yan; Han, Dongmei; Wu, Jichun	Groundwater carbon biogeochemistry of coastal confined aquifers and its implications after discharge	JOURNAL OF HYDROLOGY	655	https://doi.org/ 10.1016/j.jhydr ol.2025.132970
Jia, Lu; Xie, Yueqing; Love, Andrew J. ; Wohling, Daniel; Dai, Xin; Fu, Rongbing	Groundwater flow and age in topography-driven groundwater flow systems with geological barriers	JOURNAL OF HYDROLOGY	659	https://doi.org/ 10.1016/j.jhydr ol.2025.133241
Yu, Chenlu; Wang, Dong; Singh, Vijay P. ; Xu, Pengcheng; Zhang, Along; Yang, Zhuo; Wang, Zitong; Zeng, Xiankui; Jiang, Jianguo; Wu, Jichun	An ensemble vine copula quantile regression model with non- stationary margins (EVQR-NS) for soil moisture prediction	JOURNAL OF HYDROLOGY	659	https://doi.org/ 10.1016/j.jhydr ol.2025.133248
Ai, Ronghui; Zha, Rihuan; Kang, Xueyuan; Lee, Jonghyun Harry; Zhang, Min; Shi, Xiaoqing	Integrating CSIA and reactive transport modeling to characterize DNAPL source zone architecture during natural attenuation in biogeochemically heterogeneous aquifers	JOURNAL OF HYDROLOGY	661	https://doi.org/ 10.1016/j.jhydr ol.2025.133565

Qiu, Wenjie; Yang, Yun; Song, Jian; Que, Weimin; Liu, Zhengbang; Weng, Haicheng; Wu, Jianfeng; Wu, Jichun	A deep-learning-based multiobjective optimization for the design of in-situ uranium leaching system under multiple uncertainties	JOURNAL OF HYDROLOGY	651	https://doi.org/ 10.1016/j.jhydr ol.2024.132576
Yu, Chenlu; Wang, Dong; Singh, Vijay P.; Xu, Pengcheng; Zhang, Along; Ye, Xiaoyu; Zeng, Xiankui; Jiang, Jianguo; Wu, Jichun	Rolling forecast of soil moisture under non-stationary conditions: a robust framework incorporating time-varying dynamics within and between variables	JOURNAL OF HYDROLOGY	662	https://doi.org/ 10.1016/j.jhydr ol.2025.133832
Zheng, Xianwu; Chen, Kouping; Luo, Bowen; Wu, Jichun; Chen, Huali; Xiang, Lei	A soil erosion-based framework for assessing mercury nonpoint pollution in mining watersheds	JOURNAL OF HYDROLOGY	663	https://doi.org/ 10.1016/j.jhydr ol.2025.134309
Qiang, Siyuan; Xie, Wenyi; Shi, Xiaoqing; Deng, Shaopo; Long, Tao; Kang, Xueyuan; Song, Yalin; Wu, Jichun	Geoelectrical monitoring of natural attenuation process in an organic contaminated site including artificial insulating films	JOURNAL OF HYDROLOGY	663	https://doi.org/ 10.1016/j.jhydr ol.2025.134161
Yao, Jiefu; Li, Baoju; Liu, Zihao; Chen, Shuai; Ruan, Xiaohong	Explainable deep learning for dual goals: Predicting total phosphorus concentrations and identifying pollution sources in a tidal river network	JOURNAL OF HYDROLOGY	663	https://doi.org/ 10.1016/j.jhydr ol.2025.134203
Song, Jian; Wu, Jianfeng; Wang, Jinguo; Yin, Ziyue; Yang, Yun; Lin, Jin; Wu, Jichun	A spatiotemporal hydro-economic optimization modeling framework for integrating the conjunctive surface water and groundwater management with the crop pattern in an arid endorheic river basin	JOURNAL OF HYDROLOGY	655	https://doi.org/ 10.1016/j.jhydr ol.2025.132972
Yin, Ziyue; Song, Jian; Liu, Dianguang; Wu, Jianfeng; Yang, Yun; Sun, Yuanyuan; Wu, Jichun	Mapping mining-affected water pollution in China: status, patterns, risks, and implications	HYDROLOGY AND EARTH SYSTEM SCIENCES	29(16):3957 -3973	https://doi.org/ 10.5194/hess- 29-3957-2025
Duan, Yiren; He, Hongtao; Liu, Wenchao; Gou, Wenxian; Wang, Zhao; Liu, Peng; Zhang, Jing; Peacock, Caroline L.; Li, Wei	Coupling stable isotope analyses and X-ray absorption spectroscopy to investigate the molecular mechanism of zinc sorption by calcite	GEOCHIMICA ET COSMOCHIMICA ACTA	390:232-250	https://doi.org/ 10.1016/j.gca.2 024.12.005

Wang, Zhao; Hochella Jr, Michael F.; Duan, Yiren; Zhang, Ganlin; Lu, Xiancai; Li, Wei	Contrasting Zn isotope fractionation effect during adsorption on micro- and nano-goethite	GEOCHIMICA ET COSMOCHIMICA ACTA	401:47-61	https://doi.org/10.1016/j.gca.2025.05.031
Xu, Zhewen; Frings, Patrick J.; Liu, Cong-Qiang; Li, Gaojun	Linking lithium isotopic composition of seawater to atmospheric oxygenation	GEOCHIMICA ET COSMOCHIMICA ACTA	414:259-273	https://doi.org/10.1016/j.gca.2025.12.013
Li, Qin; Liu, Xiandong; Wang, Kai; Cheng, Yongxian; Yin, Zhe; Wang, Rucheng; Lu, Xiancai	Revealing atomistic mechanism of lithium diffusion in montmorillonite structure: A molecular simulation study	GEOCHIMICA ET COSMOCHIMICA ACTA	392:165-174	https://doi.org/10.1016/j.gca.2025.01.008
Ren, Chao; Li, Yongfang; Wang, Shaofeng; Wang, Jingzhao; Ji, Junfeng; Teng, Henry H.; Phillips, Brian L.; Kwon, Kideok D.; Li, Wei	Coprecipitation of phosphate with calcite: Molecular-scale evidence for incorporation and inclusion mechanisms	GEOCHIMICA ET COSMOCHIMICA ACTA	399:1-17	https://doi.org/10.1016/j.gca.2025.04.032
Wang, Xinyu; Wang, Ruilin; Li, Luo; Sherman, David M.; Yang, Tao; Hou, Mingcai; Takahashi, Yoshio; Li, Wei	Stable Mo isotopic fractionation during complexation onto hematite surface: Molecular insights from Ab-initio MD and X-ray absorption spectroscopy	GEOCHIMICA ET COSMOCHIMICA ACTA	403:52-66	https://doi.org/10.1016/j.gca.2025.06.031
Li, Wei; Ren, Chao; Kwon, Kideok D.; Feng, Xiaolei; Sha, Gang; Li, Jinhui; Dong, Sijia; Lu, Xiancai	Incorporation of fluoride in calcite: Insights from solid-state NMR, NanoSIMS, APT, HRSTEM and DFT calculations	GEOCHIMICA ET COSMOCHIMICA ACTA	401:31-46	https://doi.org/10.1016/j.gca.2025.05.045
Peng, Zechen; Mo, Shaoxing; Sun, Alexander Y.; Wu, Jichun; Zeng, Xiankui; Lu, Miao; Shi, Xiaoqing	An Explainable Bayesian TimesNet for Probabilistic Groundwater Level Prediction	WATER RESOURCES RESEARCH	61 (6)	https://doi.org/10.1029/2025WR040191
Han, Zheng; Kang, Xueyuan; Singha, Kamini; Qiang, Siyuan; Liu, Xingchang; Wu, Jichun; Shi, Xiaoqing	Adaptive Multi-Objective Optimization for Real-Time Monitoring of Rapid Tracer Transport Using Electrical Resistivity Tomography: Balancing Spatial and Temporal Resolution	WATER RESOURCES RESEARCH	61 (10)	https://doi.org/10.1029/2025WR040444

Li, Binchen; Li, Yong-Xiang; Li, Yuqi; Li, Weiqiang	Iron Isotope Evidence for Heightened Primary Productivity Triggered by Hydrothermally Sourced Nutrients During Oceanic Anoxic Event 2	GEOPHYSICAL RESEARCH LETTERS	52(10)	https://doi.org/10.1029/2024GL114116
Wang, Ye; Chen, Yang; Li, Shilei; Hedding, David William; Chen, Jun	Carbon Emissions Through the Weathering of Petrogenic Organic Carbon and the Net Geological Carbon Budget of the Tibetan Plateau	GEOPHYSICAL RESEARCH LETTERS	52(4)	https://doi.org/10.1029/2024GL110718
Ouyang, Shenghui; Ji, Junfeng; Li, Chao; Mills, Benjamin J. W.; Wei, Guang-Yi; Hedding, David W.; Li, Gaojun	Phanerozoic Onset of Massive Continental Weathering	GEOPHYSICAL RESEARCH LETTERS	52(17)	https://doi.org/10.1029/2025GL117072
Mo, Shaoxing; Schumacher, Maike; van Dijk, Albert I. J. M.; Shi, Xiaoqing; Wu, Jichun; Forootan, Ehsan	Near-Real-Time Monitoring of Global Terrestrial Water Storage Anomalies and Hydrological Droughts	GEOPHYSICAL RESEARCH LETTERS	52(7)	https://doi.org/10.1029/2024GL112677
Xing, Kun; Shi, Xiaoqing; Kokkinaki, Amalia; Yang, Zhibing; Zou, Liangchao; Wu, Jichun	Residual NAPL Architectures in Fractures: Insights From Microfluidic Experiments	GEOPHYSICAL RESEARCH LETTERS	52(8)	https://doi.org/10.1029/2025GL114826
Xu, Zhewen; Wang, Ruoshui; Liu, Lianwen; Li, Jingxian; Ji, Junfeng; Chen, Jun; Li, Gaojun	Congruent Weathering of Continental Silicates During Warm Periods: Evidence From Lithium Isotopes in Marine Sediments	GEOPHYSICAL RESEARCH LETTERS	52(22)	https://doi.org/10.1029/2025GL119016
Kang, Jinzheng; Shi, Xiaoqing; Mo, Shaoxing; Sun, Alexander Y.; Wang, Lijuan; Wang, Haiou; Wu, Jichun	Leakage risk assessment in geologic carbon sequestration using a physics-aware ConvLSTM surrogate model	ADVANCES IN WATER RESOURCES	202	https://doi.org/10.1016/j.advwatres.2025.105017
Song, Yalin; Shi, Xiaoqing; Revil, Andre; Wang, Qilin; Du, Xinqiang; Wu, Jichun	Real-time monitoring of dissolved toluene biodegradation in column experiments using spectral induced polarization	ADVANCES IN WATER RESOURCES	206	https://doi.org/10.1016/j.adwatre.2025.105168
Jiang, Yunbin; Kuang, Dexu; Han, Cheng; Deng, Huan; Liu, Kailou; Huang, Shangshu; Li, Wei; Zhong, Wenhui	Enhancement of soil phosphorus mineralization and phosphorus availability by labile carbon in organic amendments through boosting copiotrophic phosphatase-producing bacteria	PLANT AND SOIL	514(1):955-971	https://doi.org/10.1007/s11104-025-07427-1

Li, Gaojun; Dellinger, Mathieu; Fernandez, Nicole M.; Torres, Mark; Li, Gen K.	Editorial preface to special issue: Chemical weathering as a key mechanism sustaining Earth's habitability	GLOBAL AND PLANETARY CHANGE	255	https://doi.org/ 10.1016/j.glopl acha.2025.10505 5
Xu, Zhewen; Liu, Lianwen; Zheng, Hongbo; Ji, Junfeng; Chen, Jun; Teng, H. Henry; Li, Gaojun	Control of temperature on the weathering of slow-eroding post- orogenic terrains	GLOBAL AND PLANETARY CHANGE	252	https://doi.org/ 10.1016/j.glopl acha.2025.10490 1
Shen, Hua; Bao, Rui; Li, Chenglong; Sheng, Xuefen; Wu, Min; Xu, Yijiang; Tan, Haolin; Li, Yuhang	Land snail shell morphology as a new Paleomonsoon proxy	SCIENTIFIC REPORTS	15(1):9749	https://doi.org/ 10.1038/s41598- 025-91903-2
Qin, Xiang; Cao, Jian; Luo, Bing; Liu, Jinchao; Hu, Guang	Sulfate concentration and redox state control the pyrite formation and sulfur cycle in a T-OAE lake, Sichuan Basin, China	CHEMICAL GEOLOGY	676	https://doi.org/ 10.1016/j.chem eo.2025.122622
Kang, Xueyuan; Kokkinaki, Amalia; Grana, Dario; Zong, Chengyuan; Shi, Xiaoqing; Deng, Yirong; Li, Weiyu; Wu, Jichun	Effects of Prior Reconstruction Resolution and Data Density on DNAPL Imaging and Mass-Discharge Prediction Using a Variational Autoencoder	MATHEMATICAL GEOSCIENCES		https://doi.org/ 10.1007/s11004- 025-10233-1
Hou, Runzepu; Zeng, Xiankui; Wang, Dong; Wu, Jichun	Evaluating Spatial downscaling surrogate models for landscape evolution simulations in the Tarim river basin, China	STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT	39(6):2479- 2496	https://doi.org/ 10.1007/s00477- 025-02980-80
Yu, Xiaohan; Zeng, Xiankui; Brocca, Luca; Gui, Dongwei; Wang, Dong; Wu, Jichun	A Copula-Based Composite Drought Index for Enhanced Drought Monitoring and Analysis	JOURNAL OF GEOPHYSICAL RESEARCH- ATMOSPHERES	130(8)	https://doi.org/ 10.1029/2024JD0 41867
Cai, Jie; Meng, Xianqiang; Liu, Lianwen; Li, Gen K.; Li, Shilei; Chen, Jun; Ji, Junfeng	Pleistocene Global Cooling Did Not Weaken the East Asian Summer Monsoon	JOURNAL OF GEOPHYSICAL RESEARCH- ATMOSPHERES	130(4)	https://doi.org/ 10.1029/2024JD0 42746
Zhang, Run; Li, Laifeng; Wang, Xianyan; Hedding, David William; Zhang, Jinyu; Li, Le; Xu, Zhewen; Ouyang, Shenghui; Li, Gaojun	Dating fluvial terraces on the southeastern Tibetan Plateau using the uranium comminution age method	QUATERNARY SCIENCE REVIEWS	356	https://doi.org/ 10.1016/j.quasc irev.2025.10926 4

Liu, Mengnan; Li, Tao; Yang, Ruiyu; Liu, Shu; Hong, Qingquan; Chen, Tianyu; Li, Gaojun	Precise determination of stable W isotopic compositions of seawater with Fe co-precipitation and double spike MC-ICP-MS	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	40(5):1169-1175	https://doi.org/10.1039/d5ja00091b
Qiang, Yucheng; Xie, Zhaojun; Lu, Shiang; Zhu, Mingjun; Xie, Yueqing	A comparative assessment of groundwater and surface water quality in the Yangtze River Delta	ENVIRONMENTAL MONITORING AND ASSESSMENT	197(7):729	https://doi.org/10.1007/s10661-025-14176-2
Deng, Fang; Wu, Jichun; Jiang, Jianguo; Yang, Yun; Meng, Yinquan; Shu, Wei	Leveraging Bibliometric Analysis to Uncover Trends, Developments and Hotspots in Research on Groundwater Solute Transport from 1981 to 2022	WATER AIR AND SOIL POLLUTION	236(6):387	https://doi.org/10.1007/s11270-025-08009-8
Yao, Piao; Zhang, Jiaming; Zhou, Bin; Chen, Yang; He, Ding	A Novel Approach for Fast Microplastic Quantification in Sediments Using Machine Learning-Spectrometer Combinations	WATER AIR AND SOIL POLLUTION	236(14):922	https://doi.org/10.1007/s11270-025-08575-x
Ni, Lingling; Wang, Wenqi; Wang, Dong; Singh, Vijay P.; Yin, Xin; Kang, Xueyuan; Tao, Yuwei; Gu, Zichen	Improving Monthly Streamflow Prediction by Deep Learning Model With Physics-Based Rules	HYDROLOGICAL PROCESSES	39(4)	https://doi.org/10.1002/hyp.70123
Zhao, Wanfu; Song, Yinxian; Li, Wei; Wen, Yubo; Ji, Junfeng	Health Risk of Heavy Metal and Implication for Ecological Threat in Soils Weathered from the Black Shale	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	114(2):16	https://doi.org/10.1007/s00128-024-03989-5
Li, Chenglong; Sheng, Xuefen; Bao, Rui; Da, Jiawei	$\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ differences between biogenic and non-biogenic carbonates in Chinese loess-paleosol sections: Implications for paleoclimate proxies	JOURNAL OF ASIAN EARTH SCIENCES	295	https://doi.org/10.1016/j.jseas.2025.106855
Chen, Danhong; Zeng, Xiankui; Gui, Dongwei; Wang, Dong; Wu, Jichun	Quantifying the hydrological processes in the Tarim River Basin, China, using a coupled groundwater/surface water model	HYDROGEOLOGY JOURNAL	33(6):1637-1661	https://doi.org/10.1007/s10040-025-02947-7
Fu, Haoyu; Jiao, Youjun; Cao, Jianwen; Huang, Qibo; Shi, Xiaoqing	Numerical simulation of precipitation driven karst spring discharge using a triple media (matrix-fractures-conduits) method	JOURNAL OF HYDROLOGY	33(8):2083-2103	https://doi.org/10.1007/s10040-025-02978-0
Zhao, Wanfu; Song, Yinxian; Li, Wei; Wen, Yubo; Ji, Junfeng	Health Risk of Heavy Metal and Implication for Ecological Threat in Soils Weathered from the Black Shale	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY	114(2):16	https://doi.org/10.1007/s00128-024-03989-5