Jian

List of Publications by Year
in descending order

78 papers	2,166 citations	236912 25 h-index	243610 44 g-index
78 all docs	78 docs citations	78 times ranked	1964 citing authors

#	Article	IF	Citations
1	Long-term immobilization of soil metalloids under simulated aging: Experimental and modeling approach. Science of the Total Environment, 2022, 806, 150501.	8.0	8
2	Application of the Deep Learning Algorithm to Identify the Spatial Distribution of Heavy Metals at Contaminated Sites. ACS ES&T Engineering, 2022, 2, 158-168.	7.6	9
3	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement. Water Research, 2022, 218, 118468.	11.3	15
4	On the ideal groundwater sampling window by utilizing transition pumping period. Journal of Hydrology, 2022, 610, 127796.	5.4	1
5	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. Water Resources Research, 2022, 58, .	4.2	5
6	Highâ€Dimensional Groundwater Flow Inverse Modeling by Upscaled Effective Model on Principal Components. Water Resources Research, 2022, 58, .	4.2	3
7	A Quasiâ€Newton Reformulated Geostatistical Approach on Reduced Dimensions for Largeâ€Dimensional Inverse Problems. Water Resources Research, 2021, 57, .	4.2	5
8	Experimental and modeling studies for adsorbing different species of fluoride using lanthanum-aluminum perovskite. Chemosphere, 2021, 263, 128089.	8.2	23
9	Assessment of transportation processes of polyacrylamide in chernozem and saline soil by numerical model. Environmental Technology (United Kingdom), 2021, 42, 2350-2360.	2.2	0
10	Effective Chemical Delivery Through Multiâ€Screen Wells to Enhance Mixing and Reaction of Solute Plumes in Porous Media. Water Resources Research, 2021, 57, e2020WR028551.	4.2	5
11	General analytical solutions of groundwater flow toward multi-dimensional sources/sinks in a confined aquifer with leakage and distributed recharge. Journal of Hydrology, 2021, 594, 125948.	5.4	3
12	Analytical, Experimental, and Numerical Investigation of Partially Penetrating Barriers for Expanding Island Freshwater Lenses. Water Resources Research, 2021, 57, e2020WR028386.	4.2	22
13	Modeling the Conditional Fragmentation-Induced Microplastic Distribution. Environmental Science & Technology, 2021, 55, 6012-6021.	10.0	44
14	Bayesian inverse modeling of large-scale spatial fields on iteratively corrected principal components. Advances in Water Resources, 2021, 151, 103913.	3.8	6
15	Defluorination by ion exchange of SO42â˜' on alumina surface: Adsorption mechanism and kinetics. Chemosphere, 2021, 273, 129678.	8.2	20
16	Analytical Solutions for Fresh Groundwater Lenses in Small Strip Islands With Spatially Variable Recharge. Water Resources Research, 2021, 57, e2020WR029497.	4.2	6
17	Impact of Atmospheric Pressure Fluctuations on Nonequilibrium Transport of Volatile Organic Contaminants in the Vadose Zone: Experimental and Numerical Modeling. Water Resources Research, 2021, 57, e2020WR029344.	4.2	9
18	Vertical migration of microplastics in porous media: Multiple controlling factors under wet-dry cycling. Journal of Hazardous Materials, 2021, 419, 126413.	12.4	55

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19	Experimental and modeling investigation of pumping from a fresh groundwater lens in an idealized strip island. Journal of Hydrology, 2021, 602, 126734.	5.4	8
20	Effect of cut-off wall on freshwater storage in small islands considering ocean surge inundation. Journal of Hydrology, 2021, 603, 127143.	5.4	10
21	Molecular Characteristics of Dissolved Organic Nitrogen and Its Interaction with Microbial Communities in a Prechlorinated Raw Water Distribution System. Environmental Science & Technology, 2020, 54, 1484-1492.	10.0	31
22	An examination of the building pressure cycling technique as a tool in vapor intrusion investigations with analytical simulations. Journal of Hazardous Materials, 2020, 389, 121915.	12.4	6
23	A simplified equation of approximate interface profile in stratified coastal aquifers. Journal of Hydrology, 2020, 580, 124249.	5.4	11
24	Influence of groundwater table fluctuation on the non-equilibrium transport of volatile organic contaminants in the vadose zone. Journal of Hydrology, 2020, 580, 124353.	5.4	36
25	A Semianalytical Method to Fast Delineate Seawaterâ€Freshwater Interface in Twoâ€Dimensional Heterogeneous Coastal Aquifers. Water Resources Research, 2020, 56, e2020WR027197.	4.2	3
26	A newly synthesized highly stable Ag/N-carbon electrode for enhanced desalination by capacitive deionization. Environmental Science: Nano, 2020, 7, 3007-3019.	4.3	17
27	Development of groundwater lens for transient recharge in strip islands. Journal of Hydrology, 2020, 590, 125209.	5.4	5
28	A numerical model to optimize LNAPL remediation by multi-phase extraction. Science of the Total Environment, 2020, 718, 137309.	8.0	15
29	The development of groundwater research in the past 40Âyears: A burgeoning trend in groundwater depletion and sustainable management. Journal of Hydrology, 2020, 587, 125006.	5.4	40
30	Reformulation of Bayesian Geostatistical Approach on Principal Components. Water Resources Research, 2020, 56, e2019WR026732.	4.2	5
31	High-frequency fluctuations of indoor pressure: A potential driving force for vapor intrusion in urban areas. Science of the Total Environment, 2020, 710, 136309.	8.0	5
32	Effects of temperature-control curtain on algae biomass and dissolved oxygen in a large stratified reservoir: Sanbanxi Reservoir case study. Journal of Environmental Management, 2019, 248, 109250.	7.8	36
33	Highly-dispersed Fe2O3@C electrode materials for Pb2+ removal by capacitive deionization. Carbon, 2019, 153, 12-20.	10.3	56
34	A Proofâ€ofâ€Concept Study of Using a Less Permeable Slice Along the Shoreline to Increase Fresh Groundwater Storage of Oceanic Islands: Analytical and Experimental Validation. Water Resources Research, 2019, 55, 6450-6463.	4.2	40
35	Proofâ€ofâ€Concept Modeling of a New Groundwater Sampling Approach. Water Resources Research, 2019, 55, 5135-5146.	4.2	5
36	Transformation and fate of dissolved organic nitrogen in drinking water supply system: A full scale case study from Yixing, China. Science of the Total Environment, 2019, 673, 435-444.	8.0	21

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37	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. Science of the Total Environment, 2019, 672, 551-562.	8.0	143
38	High stress low-flow (HSLF) sampling: A newly proposed groundwater purge and sampling approach. Science of the Total Environment, 2019, 664, 127-132.	8.0	7
39	Modeling capillary fringe effect on petroleum vapor intrusion from groundwater contamination. Water Research, 2019, 150, 111-119.	11.3	29
40	A mobile-mobile transport model for simulating reactive transport in connected heterogeneous fields. Journal of Hydrology, 2018, 560, 97-108.	5.4	11
41	Analytical analysis of the temporal asymmetry between seawater intrusion and retreat. Advances in Water Resources, 2018, 111, 121-131.	3.8	9
42	Joint Bayesian inversion for analyzing conservative and reactive breakthrough curves. Journal of Hydrology, 2018, 567, 446-456.	5.4	4
43	Niche Separation of Ammonia Oxidizers in Mudflat and Agricultural Soils Along the Yangtze River, China. Frontiers in Microbiology, 2018, 9, 3122.	3.5	3
44	Effect of Runoff Variability and Sea Level on Saltwater Intrusion: A Case Study of Nandu River Estuary, China. Water Resources Research, 2018, 54, 9919-9934.	4.2	19
45	Investigating the Role of Soil Texture in Petroleum Vapor Intrusion. Journal of Environmental Quality, 2018, 47, 1179-1185.	2.0	7
46	Using a model to predict the migration and transformation of chemicals for alkali-surfactant-polymer flooding in soil. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 1657-1662.	2.3	1
47	Effects of pipe material on nitrogen transformation, microbial communities and functional genes in raw water transportation. Water Research, 2018, 143, 188-197.	11.3	31
48	Assessment of the impact of sea-level rise on steady-state seawater intrusion in a layered coastal aquifer. Journal of Hydrology, 2018, 563, 851-862.	5.4	29
49	Defining the Effect of Stratification in Coastal Aquifers Using a New Parameter. Water Resources Research, 2018, 54, 5948-5957.	4.2	23
50	Optimization of groundwater sampling approach under various hydrogeological conditions using a numerical simulation model. Journal of Hydrology, 2017, 552, 505-515.	5.4	17
51	Analytical solutions of seawater intrusion in sloping confined and unconfined coastal aquifers. Water Resources Research, 2016, 52, 6989-7004.	4.2	25
52	Effects of Rate-Limited Mass Transfer on Modeling Vapor Intrusion with Aerobic Biodegradation. Environmental Science & Technology, 2016, 50, 9400-9406.	10.0	13
53	Steady state analytical solutions for pumping in a fully bounded rectangular aquifer. Water Resources Research, 2015, 51, 8294-8302.	4.2	17
54	Modeling Aerobic Biodegradation in the Capillary Fringe. Environmental Science & Technology, 2015, 49, 1501-1510.	10.0	25

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55	Synthesis of Coreâ€“Shell Magnetic Fe₃O₄@poly(m-Phenylenediamine) Particles for Chromium Reduction and Adsorption. Environmental Science & Technology, 2015, 49, 5654-5662.	10.0	339
56	Sustainable synthesis of hollow Cu-loaded poly(m-phenylenediamine) particles and their application for arsenic removal. RSC Advances, 2015, 5, 29965-29974.	3.6	21
57	A Correction on Coastal Heads for Groundwater Flow Models. Ground Water, 2015, 53, 164-170.	1.3	17
58	Maximizing Net Extraction Using an Injectionâ€Extraction Well Pair in a Coastal Aquifer. Ground Water, 2013, 51, 219-228.	1.3	23
59	Steady-state freshwaterâ€“seawater mixing zone in stratified coastal aquifers. Journal of Hydrology, 2013, 505, 24-34.	5.4	124
60	Analytical relationship between Gaussian and transformedâ€Gaussian spatially distributed fields. Water Resources Research, 2013, 49, 1735-1740.	4.2	7
61	Solute transport in divergent radial flow with multistep pumping. Water Resources Research, 2012, 48, .	4.2	9
62	Boundary Condition Effects on Maximum Groundwater Withdrawal in Coastal Aquifers. Ground Water, 2012, 50, 386-393.	1.3	24
63	How well do mean breakthrough curves predict mixingâ€controlled reactive transport?. Water Resources Research, 2011, 47, .	4.2	25
64	Recovery efficiency of aquifer storage and recovery (ASR) with mass transfer limitation. Water Resources Research, 2011, 47, .	4.2	23
65	Dynamics of freshwaterâ€seawater mixing zone development in dualâ€domain formations. Water Resources Research, 2010, 46, .	4.2	40
66	Analysis of stagnation points for a pumping well in recharge areas. Journal of Hydrology, 2009, 373, 442-452.	5.4	11
67	Effects of kinetic mass transfer and transient flow conditions on widening mixing zones in coastal aquifers. Water Resources Research, 2009, 45, .	4.2	80
68	Effective reaction parameters for mixing controlled reactions in heterogeneous media. Water Resources Research, 2008, 44, .	4.2	57
69	Traveltimeâ€based descriptions of transport and mixing in heterogeneous domains. Water Resources Research, 2008, 44, .	4.2	19
70	Temporal moments for transport with mass transfer described by an arbitrary memory function in heterogeneous media. Water Resources Research, 2008, 44, .	4.2	25
71	Hydraulic performance analysis of a multiple injectionâ€“extraction well system. Journal of Hydrology, 2007, 336, 294-302.	5.4	28
72	Breakthrough curve tailing in a dipole flow field. Water Resources Research, 2007, 43, .	4.2	15

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73	Modeling in-situ uranium(VI) bioreduction by sulfate-reducing bacteria. Journal of Contaminant Hydrology, 2007, 92, 129-148.	3.3	54
74	A Bayesian geostatistical transfer function approach to tracer test analysis. Water Resources Research, 2006, 42, .	4.2	39
75	A Nested-Cell Approach for In Situ Remediation. Ground Water, 2006, 44, 266-274.	1.3	51
76	A parametric transfer function methodology for analyzing reactive transport in nonuniform flow. Journal of Contaminant Hydrology, 2006, 83, 27-41.	3.3	30
77	Mass-Transfer Limitations for Nitrate Removal in a Uranium-Contaminated Aquifer. Environmental Science & Technology, 2005, 39, 8453-8459.	10.0	36
78	Fluid residence times within a recirculation zone created by an extractionâ€“injection well pair. Journal of Hydrology, 2004, 295, 149-162.	5.4	67