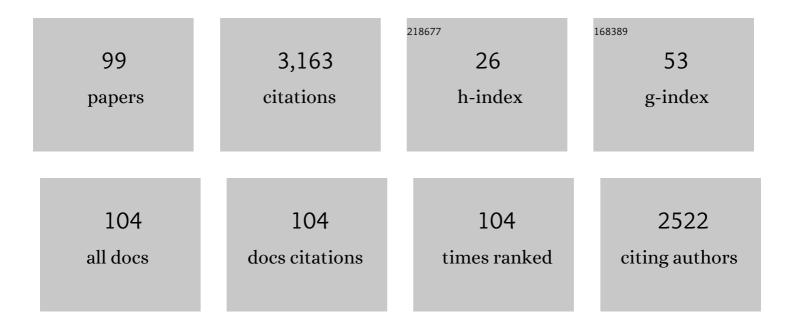
## Chunhui Lu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2718489/publications.pdf Version: 2024-02-01



Снимницій

#	Article	IF	CITATIONS
1	On the intrusion and recovery of ocean-sourced 3H and 14C in coastal aquifers considering ocean-surge inundation. Journal of Hydrology, 2022, 604, 127241.	5.4	2
2	A novel analytical model for the transit time distributions in urban groundwater systems. Journal of Hydrology, 2022, 605, 127379.	5.4	3
3	Approximate analytical solutions for assessing the effects of unsaturated flow on seawater extent in thin unconfined coastal aquifers. Advances in Water Resources, 2022, 160, 104104.	3.8	2
4	Non-point contaminant source identification in an aquifer using the ensemble smoother with multiple data assimilation. Journal of Hydrology, 2022, 606, 127405.	5.4	11
5	An analytical approach for urban groundwater transit time distributions accounting for the effect of stormwater infiltration system. Journal of Hydrology, 2022, 606, 127413.	5.4	3
6	Improving salt leaching efficiency of subsurface drainage systems using low-permeability surface mulch. Advances in Water Resources, 2022, 162, 104147.	3.8	4
7	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. Water Resources Research, 2022, 58, .	4.2	5
8	Hydrometeorological disasters during COVID-19: Insights from topic modeling of global aid reports. Science of the Total Environment, 2022, 838, 155977.	8.0	9
9	Effects of Land Reclamation on a Subterranean Estuary. Water Resources Research, 2022, 58, .	4.2	7
10	Highâ€Đimensional Groundwater Flow Inverse Modeling by Upscaled Effective Model on Principal Components. Water Resources Research, 2022, 58, .	4.2	3
11	A comparison between ES-MDA and restart EnKF for the purpose of the simultaneous identification of a contaminant source and hydraulic conductivity. Journal of Hydrology, 2021, 595, 125681.	5.4	23
12	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
13	Assessing the contribution of groundwater to catchment travel time distributions through integrating conceptual flux tracking with explicit Lagrangian particle tracking. Advances in Water Resources, 2021, 149, 103849.	3.8	11
14	New Finite Volume–Multiscale Finite-Element Model for Solving Solute Transport Problems in Porous Media. Journal of Hydrologic Engineering - ASCE, 2021, 26, 04021002.	1.9	1
15	Temperature Influenced the Comammox Community Composition in Drinking Water and Wastewater Treatment Plants. Microbial Ecology, 2021, 82, 870-884.	2.8	21
16	Analytical, Experimental, and Numerical Investigation of Partially Penetrating Barriers for Expanding Island Freshwater Lenses. Water Resources Research, 2021, 57, e2020WR028386.	4.2	22
17	Analytical and Experimental Investigation of the Impact of Land Reclamation on Steadyâ€State Seawater Extent in Coastal Aquifers. Water Resources Research, 2021, 57, e2020WR029028.	4.2	6
18	Effects of a low-permeability layer on unstable flow pattern and land-sourced solute transport in coastal aquifers. Journal of Hydrology, 2021, 598, 126397.	5.4	16

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19	Analytical Solutions for Fresh Groundwater Lenses in Small Strip Islands With Spatially Variable Recharge. Water Resources Research, 2021, 57, e2020WR029497.	4.2	6
20	Measuring sustainability as distance to ideal position of economy, society and environment: Application to China's provincial water resources (2004–17). Journal of Environmental Management, 2021, 292, 112742.	7.8	21
21	Aquifer Storage and Recovery in Layered Saline Aquifers: Importance of Layer-Arrangements. Water (Switzerland), 2021, 13, 2595.	2.7	2
22	Facile construction of dual heterojunction CoO@TiO2/MXene hybrid with efficient and stable catalytic activity for phenol degradation with peroxymonosulfate under visible light irradiation. Journal of Hazardous Materials, 2021, 420, 126686.	12.4	72
23	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
24	Using nitrate as a tracer to constrain age selection preferences in catchments with strong seasonality. Journal of Hydrology, 2021, 603, 126889.	5.4	6
25	A novel two-step approach for optimal groundwater remediation by coupling extreme learning machine with evolutionary hunting strategy based metaheuristics. Journal of Contaminant Hydrology, 2021, 243, 103864.	3.3	8
26	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Experimental Investigation. Water Resources Research, 2021, 57, e2021WR029728.	4.2	7
27	On the use of modified Boussinesq equation for studying double-layered hillslope recession characteristics. Journal of Hydrology, 2021, 603, 127041.	5.4	1
28	Effect of cut-off wall on freshwater storage in small islands considering ocean surge inundation. Journal of Hydrology, 2021, 603, 127143.	5.4	10
29	A rainfall event may produce a biased estimation of the indoor vapor intrusion risk through exterior soil-gas sampling. Journal of Hydrology, 2021, 603, 127117.	5.4	0
30	Effects of aquifer geometry on seawater intrusion in annulus segment island aquifers. Hydrology and Earth System Sciences, 2021, 25, 6591-6602.	4.9	5
31	Novel α-Fe2O3/MXene nanocomposite as heterogeneous activator of peroxymonosulfate for the degradation of salicylic acid. Journal of Hazardous Materials, 2020, 382, 121064.	12.4	185
32	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
33	A simplified equation of approximate interface profile in stratified coastal aquifers. Journal of Hydrology, 2020, 580, 124249.	5.4	11
34	Effects of commonly used nitrification inhibitors—dicyandiamide (DCD), 3,4-dimethylpyrazole phosphate (DMPP), and nitrapyrin—on soil nitrogen dynamics and nitrifiers in three typical paddy soils. Geoderma, 2020, 380, 114637.	5.1	65
35	Evaluation of the performance of multiple-well hydraulic barriers on enhancing groundwater extraction in a coastal aquifer. Advances in Water Resources, 2020, 144, 103704.	3.8	18
36	Plume deformation, mixing, and reaction kinetics: An analysis of interacting helical flows in three-dimensional porous media. Physical Review E, 2020, 102, 013110.	2.1	7

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37	A Semianalytical Method to Fast Delineate Seawaterâ€Freshwater Interface in Twoâ€Dimensional Heterogeneous Coastal Aquifers. Water Resources Research, 2020, 56, e2020WR027197.	4.2	3
38	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Theoretical Development. Water Resources Research, 2020, 56, e2020WR027786.	4.2	7
39	Preventing Seawater Intrusion and Enhancing Safe Extraction Using Finiteâ€Length, Impermeable Subsurface Barriers: 3D Analysis. Water Resources Research, 2020, 56, e2020WR027792.	4.2	27
40	Investigation of nitrogen pollutants transformation and its pathways along the long-distance prechlorinated raw water distribution system. Chemosphere, 2020, 255, 126833.	8.2	6
41	Watertable fluctuation-induced variability in the water retention curve: Sand column experiments. Journal of Hydrology, 2020, 589, 125125.	5.4	7
42	Development of groundwater lens for transient recharge in strip islands. Journal of Hydrology, 2020, 590, 125209.	5.4	5
43	Study on the role of lateral unsaturated flow in triggering slope failure under varying boundary water level conditions. Advances in Water Resources, 2020, 143, 103669.	3.8	4
44	Synergistic Features of Superoxide Molecule Anchoring and Charge Transfer on Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> MXene for Efficient Peroxymonosulfate Activation. ACS Applied Materials & Interfaces, 2020, 12, 9209-9218.	8.0	36
45	Expanding Freshwater Lenses Adjacent to Gaining Rivers Through Vertical Lowâ€Hydraulicâ€Conductivity Barriers: Analytical and Experimental Validation. Water Resources Research, 2020, 56, e2019WR025750.	4.2	10
46	Assessment of the impact of sea-level rise on seawater intrusion in sloping confined coastal aquifers. Journal of Hydrology, 2020, 586, 124872.	5.4	20
47	Seawater intrusion and retreat in tidally-affected unconfined aquifers: Laboratory experiments and numerical simulations. Advances in Water Resources, 2019, 132, 103393.	3.8	39
48	Solute transport influenced by unstable flow in beach aquifers. Advances in Water Resources, 2019, 125, 68-81.	3.8	37
49	Evaluation and application of the modified van Genuchten function for unsaturated porous media. Journal of Hydrology, 2019, 571, 279-287.	5.4	15
50	A Proofâ€of oncept 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
51	New finite volume multiscale finite element model for simultaneously solving groundwater flow and darcian velocity fields in porous media. Journal of Hydrology, 2019, 573, 592-606.	5.4	6
52	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
53	Comment on "Appropriate Boundary Condition for Dupuitâ€Boussinesq Theory on the Steady Groundwater Flow in an Unconfined Sloping Aquifer With Uniform Recharge―by Wu et al Water Resources Research, 2019, 55, 3593-3596.	4.2	1
54	Impact of Low- or High-Permeability Inclusion on Free Convection in a Porous Medium. Geofluids, 2019, 2019, 1-11.	0.7	3

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#	Article	IF	CITATIONS
55	A mobile-mobile transport model for simulating reactive transport in connected heterogeneous fields. Journal of Hydrology, 2018, 560, 97-108.	5.4	11
56	Predictability and Quantification of Complex Groundwater Table Dynamics Driven by Irregular Surface Water Fluctuations. Water Resources Research, 2018, 54, 2436-2451.	4.2	18
57	Engineered Photocatalytic Material Membrane Assemblies for Removing Nitrate from Water. ACS Sustainable Chemistry and Engineering, 2018, 6, 7042-7051.	6.7	24
58	Shifts in the community composition of methane-cycling microorganisms during lake shrinkage. Geoderma, 2018, 311, 9-14.	5.1	7
59	Effect of Anisotropy Structure on Plume Entropy and Reactive Mixing in Helical Flows. Transport in Porous Media, 2018, 121, 315-332.	2.6	14
60	Analytical analysis of the temporal asymmetry between seawater intrusion and retreat. Advances in Water Resources, 2018, 111, 121-131.	3.8	9
61	Niche Separation of Ammonia Oxidizers in Mudflat and Agricultural Soils Along the Yangtze River, China. Frontiers in Microbiology, 2018, 9, 3122.	3.5	3
62	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
63	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
64	Defining the Effect of Stratification in Coastal Aquifers Using a New Parameter. Water Resources Research, 2018, 54, 5948-5957.	4.2	23
65	Simultaneous removal of dissolved organic matter and nitrate from sewage treatment plant effluents using photocatalytic membranes. Water Research, 2018, 143, 250-259.	11.3	26
66	Combined effects of tides, evaporation and rainfall on the soil conditions in an intertidal creek-marsh system. Advances in Water Resources, 2017, 103, 1-15.	3.8	50
67	Variation of microbial communities and functional genes during the biofilm formation in raw water distribution systems and associated effects on the transformation of nitrogen pollutants. Environmental Science and Pollution Research, 2017, 24, 15347-15359.	5.3	13
68	Replenishing an unconfined coastal aquifer to control seawater intrusion: Injection or infiltration?. Water Resources Research, 2017, 53, 4775-4786.	4.2	34
69	Effects of episodic rainfall on a subterranean estuary. Water Resources Research, 2017, 53, 5774-5787.	4.2	36
70	Role of typical soil particleâ€size distributions on the longâ€ŧerm corrosion behavior of pipeline steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 471-483.	1.5	9
71	Impact of kinetic mass transfer on free convection in a porous medium. Water Resources Research, 2016, 52, 3637-3653.	4.2	24
72	An analytical solution for predicting the transient seepage from a subsurface drainage system. Advances in Water Resources, 2016, 91, 1-10.	3.8	22

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#	Article	IF	CITATIONS
73	Analytical solutions of seawater intrusion in sloping confined and unconfined coastal aquifers. Water Resources Research, 2016, 52, 6989-7004.	4.2	25
74	Reply to the comments by Willem J. Zaadnoordijk on "An analytical solution for predicting the transient seepage from a subsurface drainage system―by P. Xin, H.C. Dan, T. Zhou, C. Lu, J. Kong, L. Li [Adv. Water Resour. 91 (2016) 1–10]. Advances in Water Resources, 2016, 96, 440-442.	3.8	0
75	Effects of Rate-Limited Mass Transfer on Modeling Vapor Intrusion with Aerobic Biodegradation. Environmental Science & Technology, 2016, 50, 9400-9406.	10.0	13
76	Dewatering of drinking water treatment sludge using the Fenton-like process induced by electro-osmosis. Chemical Engineering Journal, 2016, 293, 207-215.	12.7	35
77	Effects of macro-pores on water flow in coastal subsurface drainage systems. Advances in Water Resources, 2016, 87, 56-67.	3.8	27
78	Short-term electrochemical corrosion behavior of pipeline steel in saline sandy environments. Engineering Failure Analysis, 2016, 59, 410-418.	4.0	29
79	Steady state analytical solutions for pumping in a fully bounded rectangular aquifer. Water Resources Research, 2015, 51, 8294-8302.	4.2	17
80	Seawater intrusion in response to sea-level rise in a coastal aquifer with a general-head inland boundary. Journal of Hydrology, 2015, 522, 135-140.	5.4	42
81	Nonlinear interactions of waves and tides in a subterranean estuary. Geophysical Research Letters, 2015, 42, 2277-2284.	4.0	45
82	A Correction on Coastal Heads for Groundwater Flow Models. Ground Water, 2015, 53, 164-170.	1.3	17
83	Effect of soil particle size on the corrosion behavior of natural gas pipeline. Engineering Failure Analysis, 2015, 58, 19-30.	4.0	39
84	Groundwater pumping in head-controlled coastal systems: The role of lateral boundaries in quantifying the interface toe location and maximum pumping rate. Journal of Hydrology, 2014, 512, 147-156.	5.4	18
85	Maximizing Net Extraction Using an Injectionâ€Extraction Well Pair in a Coastal Aquifer. Ground Water, 2013, 51, 219-228.	1.3	23
86	Timescales of seawater intrusion and retreat. Advances in Water Resources, 2013, 59, 39-51.	3.8	80
87	Threats to coastal aquifers. Nature Climate Change, 2013, 3, 605-605.	18.8	23
88	Steady-state freshwater–seawater mixing zone in stratified coastal aquifers. Journal of Hydrology, 2013, 505, 24-34.	5.4	124
89	Seawater intrusion processes, investigation and management: Recent advances and future challenges. Advances in Water Resources, 2013, 51, 3-26.	3.8	1,046
90	How important is the impact of land-surface inundation on seawater intrusion caused by sea-level rise?. Hydrogeology Journal, 2013, 21, 1673-1677.	2.1	72

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91	Solute transport in divergent radial flow with multistep pumping. Water Resources Research, 2012, 48, .	4.2	9
92	Boundary Condition Effects on Maximum Groundwater Withdrawal in Coastal Aquifers. Ground Water, 2012, 50, 386-393.	1.3	24
93	Recovery efficiency of aquifer storage and recovery (ASR) with mass transfer limitation. Water Resources Research, 2011, 47, .	4.2	23
94	Dynamics of freshwaterâ€seawater mixing zone development in dualâ€domain formations. Water Resources Research, 2010, 46, .	4.2	40
95	Analysis of stagnation points for a pumping well in recharge areas. Journal of Hydrology, 2009, 373, 442-452.	5.4	11
96	Prediction of Environmental Properties in Water–Soil–Air Systems for Phthalates. Bulletin of Environmental Contamination and Toxicology, 2009, 83, 168-173.	2.7	11
97	Effects of kinetic mass transfer and transient flow conditions on widening mixing zones in coastal aquifers. Water Resources Research, 2009, 45, .	4.2	80
98	Study on Conveyance Coefficient Influenced by Momentum Exchange Under Steady and Unsteady Flows in Compound Open Channels. Water Resources Management, 0, , .	3.9	2
99	Impact of a Low-Permeability Layer on the Pumping Efficiency Under Threats of Saltwater Up-Coning. Frontiers in Environmental Science, 0, 10, .	3.3	1