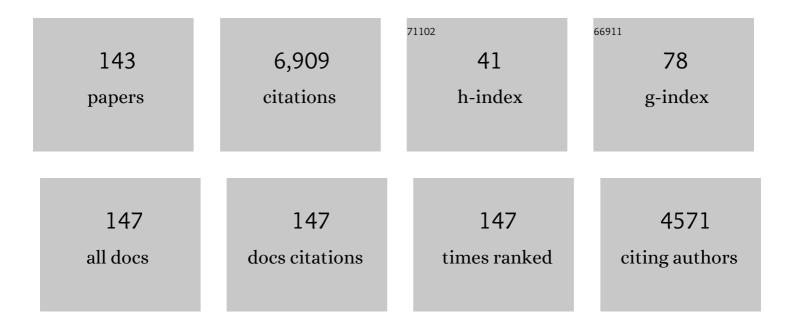
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Seawater intrusion processes, investigation and management: Recent advances and future challenges. Advances in Water Resources, 2013, 51, 3-26.	3.8	1,046
2	Impact of Seaâ€Level Rise on Sea Water Intrusion in Coastal Aquifers. Ground Water, 2009, 47, 197-204.	1.3	447
3	Is Decoupling GDP Growth from Environmental Impact Possible?. PLoS ONE, 2016, 11, e0164733.	2.5	292
4	An investigation of enhanced recessions in Poyang Lake: Comparison of Yangtze River and local catchment impacts. Journal of Hydrology, 2014, 517, 425-434.	5.4	280
5	Has the Threeâ€Gorges Dam made the Poyang Lake wetlands wetter and drier?. Geophysical Research Letters, 2012, 39, .	4.0	201
6	Science, society, and the coastal groundwater squeeze. Water Resources Research, 2017, 53, 2610-2617.	4.2	169
7	Vulnerability Indicators of Sea Water Intrusion. Ground Water, 2012, 50, 48-58.	1.3	159
8	Hydrodynamic and Hydrological Modeling of the Poyang Lake Catchment System in China. Journal of Hydrologic Engineering - ASCE, 2014, 19, 607-616.	1.9	137
9	A review of seawater intrusion and its management in Australia. Hydrogeology Journal, 2010, 18, 281-285.	2.1	116
10	Evaluation of outputs from automated baseflow separation methods against simulated baseflow from a physically based, surface water-groundwater flow model. Journal of Hydrology, 2012, 458-459, 28-39.	5.4	111
11	Transience of seawater intrusion in response to sea level rise. Water Resources Research, 2010, 46, .	4.2	107
12	Hydrogeology and management of freshwater lenses on atoll islands: Review of current knowledge and research needs. Journal of Hydrology, 2017, 551, 819-844.	5.4	107
13	Characterisation of sea-water intrusion in the Pioneer Valley, Australia using hydrochemistry and three-dimensional numerical modelling. Hydrogeology Journal, 2006, 14, 1452-1469.	2.1	106
14	Experimental observations of saltwater up-coning. Journal of Hydrology, 2009, 373, 230-241.	5.4	103
15	GRACE-Based Hydrological Drought Evaluation of the Yangtze River Basin, China. Journal of Hydrometeorology, 2016, 17, 811-828.	1.9	95
16	Seaâ€level rise impact on fresh groundwater lenses in twoâ€layer small islands. Hydrological Processes, 2014, 28, 5938-5953.	2.6	94
17	Root-induced changes of soil hydraulic properties – A review. Journal of Hydrology, 2020, 589, 125203.	5.4	88
18	Fractured bedrock and saprolite hydrogeologic controls on groundwater/surface-water interaction: a conceptual model (Australia). Hydrogeology Journal, 2009, 17, 1969-1989.	2.1	83

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19	Seawater intrusion in fractured coastal aquifers: A preliminary numerical investigation using a fractured Henry problem. Advances in Water Resources, 2015, 85, 93-108.	3.8	81
20	Timescales of seawater intrusion and retreat. Advances in Water Resources, 2013, 59, 39-51.	3.8	80
21	Investigating a complex lake-catchment-river system using artificial neural networks: Poyang Lake (China). Hydrology Research, 2015, 46, 912-928.	2.7	77
22	Water table salinization due to seawater intrusion. Water Resources Research, 2015, 51, 8397-8408.	4.2	75
23	The influence of riverâ€ŧo″ake backflow on the hydrodynamics of a large floodplain lake system (Poyang) Tj E	TQq1_1 0.7 2.6	784314 rgB ⁻
24	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
25	Current Practice and Future Challenges in Coastal Aquifer Management: Flux-Based and Trigger-Level Approaches with Application to an Australian Case Study. Water Resources Management, 2011, 25, 1831-1853.	3.9	68
26	Regional-scale, fully coupled modelling of stream–aquifer interaction in a tropical catchment. Journal of Hydrology, 2006, 328, 497-510.	5.4	65
27	Groundwater ages in coastal aquifers. Advances in Water Resources, 2013, 57, 1-11.	3.8	64
28	An Initial Inventory and Indexation of Groundwater Mega-Depletion Cases. Water Resources Management, 2013, 27, 507-533.	3.9	63
29	Hysteretic relationships in inundation dynamics for a large lake–floodplain system. Journal of Hydrology, 2015, 527, 160-171.	5.4	63
30	Numerical modelling of saltwater up-coning: Comparison with experimental laboratory observations. Journal of Hydrology, 2011, 402, 261-273.	5.4	61
31	An assessment of seawater intrusion overshoot using physical and numerical modeling. Water Resources Research, 2013, 49, 6522-6526.	4.2	60
32	On the classification of seawater intrusion. Journal of Hydrology, 2017, 551, 619-631.	5.4	59
33	Tidal impacts on riparian salinities near estuaries. Journal of Hydrology, 2006, 328, 511-522.	5.4	57
34	Interpreting streamflow generation mechanisms from integrated surface-subsurface flow models of a riparian wetland and catchment. Water Resources Research, 2013, 49, 5501-5519.	4.2	56
35	A hydraulic mixing-cell method to quantify the groundwater component of streamflow within spatially distributed fully integrated surface water–groundwater flow models. Environmental Modelling and Software, 2011, 26, 886-898.	4.5	53
36	Seawater intrusion vulnerability indicators for freshwater lenses in strip islands. Journal of Hydrology, 2014, 508, 322-327.	5.4	52

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37	Mound springs in the arid Lake Eyre South region of South Australia: A new depositional tufa model and its controls. Sedimentary Geology, 2011, 240, 55-70.	2.1	48
38	Bias of Apparent Tracer Ages in Heterogeneous Environments. Ground Water, 2014, 52, 239-250.	1.3	48
39	Satellite image-based investigation of the seasonal variations in the hydrological connectivity of a large floodplain (Poyang Lake, China). Journal of Hydrology, 2020, 585, 124810.	5.4	48
40	Characteristics of active seawater intrusion. Journal of Hydrology, 2017, 551, 632-647.	5.4	46
41	Spatial variability of chloride deposition in a vegetated coastal area: Implications for groundwater recharge estimation. Journal of Hydrology, 2014, 519, 1177-1191.	5.4	45
42	Influence of the first-order exchange coefficient on simulation of coupled surface–subsurface flow. Journal of Hydrology, 2012, 414-415, 503-515.	5.4	44
43	Speed of free convective fingering in porous media. Water Resources Research, 2011, 47, .	4.2	43
44	Influence of variable salinity conditions in a tidal creek on riparian groundwater flow and salinity dynamics. Journal of Hydrology, 2009, 375, 536-545.	5.4	42
45	On the resilience of small-island freshwater lenses: Evidence of the long-term impacts of groundwater abstraction on Bonriki Island, Kiribati. Journal of Hydrology, 2018, 564, 133-148.	5.4	42
46	Integrated Surface–Subsurface Modeling of Fuxianhu Lake Catchment, Southwest China. Water Resources Management, 2009, 23, 2189-2204.	3.9	41
47	On the testing of fully integrated surface–subsurface hydrological models. Hydrological Processes, 2013, 27, 1276-1285.	2.6	40
48	Heat and Solute Tracers: How Do They Compare in Heterogeneous Aquifers?. Ground Water, 2015, 53, 10-20.	1.3	40
49	Natural saltwater upconing by preferential groundwater discharge through boils. Journal of Hydrology, 2013, 490, 74-87.	5.4	39
50	Influence of hysteresis on tidal capillary fringe dynamics in a well-sorted sand. Advances in Water Resources, 2003, 26, 1199-1204.	3.8	38
51	Estimability of recharge through groundwater model calibration: Insights from a field-scale steady-state example. Journal of Hydrology, 2016, 540, 973-987.	5.4	37
52	Groundwater recharge to a sedimentary aquifer in the topographically closed Uley South Basin, South Australia. Hydrogeology Journal, 2012, 20, 61-72.	2.1	36
53	Saltwater upconing zone of influence. Advances in Water Resources, 2016, 94, 75-86.	3.8	35
54	Replenishing an unconfined coastal aquifer to control seawater intrusion: Injection or infiltration?. Water Resources Research, 2017, 53, 4775-4786.	4.2	34

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55	A national inventory of seawater intrusion vulnerability for Australia. Journal of Hydrology: Regional Studies, 2015, 4, 686-698.	2.4	32
56	Prediction and uncertainty of free convection phenomena in porous media. Water Resources Research, 2012, 48, .	4.2	31
57	Vertical leakage in sharp-interface seawater intrusion models of layered coastal aquifers. Journal of Hydrology, 2014, 519, 1097-1107.	5.4	31
58	Occurrence of seawater intrusion overshoot. Water Resources Research, 2015, 51, 1989-1999.	4.2	31
59	Application of an Analytical Solution as a Screening Tool for Sea Water Intrusion. Ground Water, 2016, 54, 709-718.	1.3	31
60	Problems with the application of hydrogeological science to regulation of Australian mining projects: Carmichael Mine and Doongmabulla Springs. Journal of Hydrology, 2017, 548, 674-682.	5.4	31
61	Characteristics and causal factors of hysteresis in the hydrodynamics of a large floodplain system: Poyang Lake (China). Journal of Hydrology, 2017, 553, 574-583.	5.4	31
62	The onshore influence of offshore fresh groundwater. Journal of Hydrology, 2018, 561, 724-736.	5.4	31
63	Adaptive management in groundwater planning and development: A review of theory and applications. Journal of Hydrology, 2020, 586, 124871.	5.4	31
64	Groundwater flow systems theory: research challenges beyond the specified-head top boundary condition. Hydrogeology Journal, 2016, 24, 1087-1090.	2.1	30
65	Impact of fracture network geometry on free convective flow patterns. Advances in Water Resources, 2014, 71, 65-80.	3.8	28
66	Preventing Seawater Intrusion and Enhancing Safe Extraction Using Finiteâ€Length, Impermeable Subsurface Barriers: 3D Analysis. Water Resources Research, 2020, 56, e2020WR027792.	4.2	27
67	Effect of transient solute loading on free convection in porous media. Water Resources Research, 2010, 46, .	4.2	25
68	Influences on the carbonate hydrochemistry of mound spring environments, Lake Eyre South region, South Australia. Chemical Geology, 2012, 296-297, 50-65.	3.3	25
69	Correction factor to account for dispersion in sharp-interface models of terrestrial freshwater lenses and active seawater intrusion. Advances in Water Resources, 2017, 102, 45-52.	3.8	25
70	Artificial pumping errors in the Kool–Parker scaling model of soil moisture hysteresis. Journal of Hydrology, 2006, 325, 118-133.	5.4	24
71	A modelling investigation of solute transport in permeable porous media containing a discrete preferential flow feature. Advances in Water Resources, 2016, 94, 307-317.	3.8	24
72	Maximizing Net Extraction Using an Injectionâ€Extraction Well Pair in a Coastal Aquifer. Ground Water, 2013, 51, 219-228.	1.3	23

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73	On the interpretation of coastal aquifer water level trends and water balances: A precautionary note. Journal of Hydrology, 2012, 470-471, 280-288.	5.4	23
74	Threats to coastal aquifers. Nature Climate Change, 2013, 3, 605-605.	18.8	23
75	Quantifying climate and pumping contributions to aquifer depletion using a highly parameterised groundwater model: Uley South Basin (South Australia). Journal of Hydrology, 2015, 523, 515-530.	5.4	23
76	Evaluation of management scenarios for potable water supply using script-based numerical groundwater models of a freshwater lens. Journal of Hydrology, 2019, 571, 843-855.	5.4	23
77	Analytical, Experimental, and Numerical Investigation of Partially Penetrating Barriers for Expanding Island Freshwater Lenses. Water Resources Research, 2021, 57, e2020WR028386.	4.2	22
78	Influence of soil moisture hysteresis on the functioning of capillary barriers. Hydrological Processes, 2009, 23, 1369-1375.	2.6	20
79	Terrestrial freshwater lenses in stable riverine settings: Occurrence and controlling factors. Water Resources Research, 2016, 52, 3654-3662.	4.2	20
80	Terrestrial freshwater lenses: Unexplored subterranean oases. Journal of Hydrology, 2017, 553, 501-507.	5.4	20
81	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
82	Fully integrated modeling of surfaceâ€ s ubsurface solute transport and the effect of dispersion in tracer hydrograph separation. Water Resources Research, 2014, 50, 7750-7765.	4.2	19
83	An exploration of coupled surface–subsurface solute transport in a fully integrated catchment model. Journal of Hydrology, 2015, 529, 969-979.	5.4	19
84	Evaluation of analytic solutions for steady interface flow where the aquifer extends below the sea. Journal of Hydrology, 2017, 551, 660-664.	5.4	19
85	Tidal controls on coastal groundwater conditions: field investigation of a macrotidal system. Australian Journal of Earth Sciences, 2009, 56, 1165-1179.	1.0	18
86	Effects of stream nitrate data frequency on watershed model performance and prediction uncertainty. Journal of Hydrology, 2019, 569, 22-36.	5.4	18
87	Science sidelined in approval of Australia's largest coal mine. Nature Sustainability, 2020, 3, 644-649.	23.7	18
88	Tracer adsorption in sand-tank experiments of saltwater up-coning. Journal of Hydrology, 2012, 414-415, 476-481.	5.4	17
89	A Correction on Coastal Heads for Groundwater Flow Models. Ground Water, 2015, 53, 164-170.	1.3	17
90	The influence of constrained fossil fuel emissions scenarios on climate and water resource projections. Hydrology and Earth System Sciences, 2011, 15, 1879-1893.	4.9	15

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91	On the Panday and Huyakorn surface–subsurface hydrology test case: analysis of internal flow dynamics. Hydrological Processes, 2011, 25, 2085-2093.	2.6	15
92	Using geochemistry to discern the patterns and timescales of groundwater recharge and mixing on floodplains in semi-arid regions. Journal of Hydrology, 2019, 570, 612-622.	5.4	15
93	Variable density groundwater flow: from modelling to applications. , 2010, , 87-118.		14
94	Plausibility of freshwater lenses adjacent to gaining rivers: Validation by laboratory experimentation. Water Resources Research, 2016, 52, 8487-8499.	4.2	14
95	A conceptual study of offshore fresh groundwater behaviour in the Perth Basin (Australia): Modern salinity trends in a prehistoric context. Journal of Hydrology: Regional Studies, 2018, 19, 318-334.	2.4	14
96	Evaporation and Salt Accumulation Effects on Riparian Freshwater Lenses. Water Resources Research, 2020, 56, e2019WR026380.	4.2	14
97	Revisiting analytical solutions for steady interface flow in subsea aquifers: Aquitard salinity effects. Advances in Water Resources, 2018, 116, 117-126.	3.8	13
98	On the representation of subsea aquitards in models of offshore fresh groundwater. Advances in Water Resources, 2018, 112, 283-294.	3.8	13
99	Influence of model conceptualisation on one-dimensional recharge quantification: Uley South, South Australia. Hydrogeology Journal, 2014, 22, 795-805.	2.1	12
100	Boundary Condition Nomenclature Confusion inÂGroundwater Flow Modeling. Ground Water, 2019, 57, 664-668.	1.3	12
101	Sediment mobilisation and release through groundwater discharge to the land surface: Review and theoretical development. Science of the Total Environment, 2020, 714, 136757.	8.0	11
102	Application of a Rapid-Assessment Method for Seawater Intrusion Vulnerability: Willunga Basin, South Australia. Coastal Research Library, 2013, , 205-225.	0.4	10
103	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
104	Application of Indicator Kriging to hydraulic head data to test alternative conceptual models for spring source aquifers. Journal of Hydrology, 2021, 601, 126808.	5.4	10
105	Fault-controlled springs: A review. Earth-Science Reviews, 2022, 230, 104058.	9.1	10
106	Influence of Boundary Condition Types on Unstable Densityâ€Đependent Flow. Ground Water, 2014, 52, 378-387.	1.3	9
107	On the effects of preferential or barrier flow features on solute plumes in permeable porous media. Advances in Water Resources, 2016, 98, 32-46.	3.8	9
108	Modelling the impact of runoff generation on agricultural and urban phosphorus loading of the subtropical Poyang Lake (China). Journal of Hydrology, 2020, 590, 125490.	5.4	9

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109	Investigating the influence of aquifer heterogeneity on the potential for thermal free convection in the Yarragadee Aquifer, Western Australia. Hydrogeology Journal, 2015, 23, 161-173.	2.1	7
110	Assessment of the reliability of popular satellite products in characterizing the water balance of the Yangtze River Basin, China. Hydrology Research, 2016, 47, 8-23.	2.7	7
111	On concentrated solute sources in faulted aquifers. Advances in Water Resources, 2017, 104, 255-270.	3.8	7
112	Combined geophysical and analytical methods to estimate offshore freshwater extent. Journal of Hydrology, 2019, 576, 529-540.	5.4	7
113	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Theoretical Development. Water Resources Research, 2020, 56, e2020WR027786.	4.2	7
114	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Experimental Investigation. Water Resources Research, 2021, 57, e2021WR029728.	4.2	7
115	Solute transport in permeable porous media containing a preferential flow feature: Investigation of non-Darcian flow effects. Journal of Hydrology, 2022, 604, 127210.	5.4	7
116	Salinograph trends as indicators of the recession characteristics of stream components. Hydrological Processes, 2008, 22, 3020-3028.	2.6	6
117	Seawater Intrusion Under Current Sea-Level Rise: Processes Accompanying Coastline Transgression. Coastal Research Library, 2013, , 295-313.	0.4	6
118	Spatial periodicity in bed formâ€scale solute and thermal transport models of the hyporheic zone. Water Resources Research, 2014, 50, 7886-7899.	4.2	6
119	Analytical and Experimental Investigation of the Impact of Land Reclamation on Steady‧tate Seawater Extent in Coastal Aquifers. Water Resources Research, 2021, 57, e2020WR029028.	4.2	6
120	On the implementation of the surface conductance approach using a block-centred surface–subsurface hydrology model. Journal of Hydrology, 2013, 496, 1-8.	5.4	5
121	Transient Recharge Estimability Through Field cale Groundwater Model Calibration. Ground Water, 2017, 55, 827-840.	1.3	5
122	Applicability of analytical solutions to tidal propagation in circular islands. Journal of Hydrology, 2020, 589, 125136.	5.4	5
123	Upstream Dispersion in Solute Transport Models: A Simple Evaluation and Reduction Methodology. Ground Water, 2021, 59, 287-291.	1.3	5
124	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. Water Resources Research, 2022, 58, .	4.2	5
125	Karst Aquifer Recharge: Comments on Somaratne, N. Characteristics of Point Recharge in Karst Aquifers. Water 2014, 6, 2782–2807. Water (Switzerland), 2014, 6, 3727-3738.	2.7	4
126	Dispersion effects on the freshwater–seawater interface in subsea aquifers. Advances in Water Resources, 2019, 130, 184-197.	3.8	4

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127	Discussion on: "Experimental observations of saltwater up-coning―by Werner, A.D, Jakovovic, D., Simmons, C.T., 2009. Journal of Hydrology 373, 230–241. Journal of Hydrology, 2012, 458-459, 118-120.	5.4	3
128	Spatial Periodic Boundary Condition for <scp>MODFLOW</scp> . Ground Water, 2014, 52, 606-612.	1.3	3
129	Rebuttal to "The case of the Biscayne Bay and aquifer near Miami, Florida: density-driven flow of seawater or gravitationally driven discharge of deep saline groundwater?―by Weyer (Environ Earth) Tj ETQq1 1	0. 28 4314	• rgBT /Overl
130	Catchment-scale groundwater-flow and recharge paradox revealed from base flow analysis during the Australian Millennium Drought (Mt Lofty Ranges, South Australia). Hydrogeology Journal, 2021, 29, 963-983.	2.1	3
131	Alongshore freshwater circulation in offshore aquifers. Journal of Hydrology, 2021, 593, 125915.	5.4	3
132	Estimating hydraulic properties from tidal propagation in circular islands. Journal of Hydrology, 2021, 598, 126182.	5.4	3
133	Partially penetrating lake-aquifer interaction in a laboratory-scale tidal setting. Journal of Hydrology, 2021, 603, 127080.	5.4	3
134	Transience of Riparian Freshwater Lenses. Water Resources Research, 2022, 58, .	4.2	3
135	Dynamic groundwater and salt transport near a tidal, partially penetrating estuary. Developments in Water Science, 2004, , 1535-1547.	0.1	2
136	Modelling size constraints on carbonate platform formation in groundwater upwelling zones. Scientific Reports, 2018, 8, 17460.	3.3	2
137	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
138	Comment on â€~HC. Huang, YC. Tan, CW. Liu and CH. Chen, A novel hysteresis model in unsaturated soil.Hydrological Processes 19 (2005) 1653–1665'. Hydrological Processes, 2007, 21, 411-412.	2.6	1
139	Comment on "Closed-form analytical solutions for assessing the consequences of sea-level rise on groundwater resources in sloping coastal aquifers― paper published in Hydrogeology Journal (2015) 23:1399–1413, by R. Chesnaux. Hydrogeology Journal, 2016, 24, 1325-1328.	2.1	1
140	A Spatially Periodic Solute Boundary for MT3DMS and PHT3D. Ground Water, 2017, 55, 419-427.	1.3	1
141	Three-Dimensional Seawater Intrusion Modelling of Uley South Basin, South Australia. Coastal Research Library, 2013, , 177-203.	0.4	0
142	Float-laser device for measuring the water table and freshwater–saltwater interface inÂlaboratory-scale experimental systems. Hydrogeology Journal, 2021, 29, 909-918.	2.1	0
143	Mixed-Convective Processes Within Seafloor Sediments Arising From Fresh Groundwater Discharge. Frontiers in Environmental Science, 2021, 9, .	3.3	0