

Adrian D Werner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2964777/publications.pdf>

Version: 2024-02-01

143
papers

6,909
citations

71102

41
h-index

66911

78
g-index

147
all docs

147
docs citations

147
times ranked

4571
citing authors

#	ARTICLE	IF	CITATIONS
1	Solute transport in permeable porous media containing a preferential flow feature: Investigation of non-Darcian flow effects. <i>Journal of Hydrology</i> , 2022, 604, 127210.	5.4	7
2	Approximate analytical solutions for assessing the effects of unsaturated flow on seawater extent in thin unconfined coastal aquifers. <i>Advances in Water Resources</i> , 2022, 160, 104104.	3.8	2
3	Transience of Riparian Freshwater Lenses. <i>Water Resources Research</i> , 2022, 58, .	4.2	3
4	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. <i>Water Resources Research</i> , 2022, 58, .	4.2	5
5	Fault-controlled springs: A review. <i>Earth-Science Reviews</i> , 2022, 230, 104058.	9.1	10
6	Float-laser device for measuring the water table and freshwater-saltwater interface in laboratory-scale experimental systems. <i>Hydrogeology Journal</i> , 2021, 29, 909-918.	2.1	0
7	Upstream Dispersion in Solute Transport Models: A Simple Evaluation and Reduction Methodology. <i>Ground Water</i> , 2021, 59, 287-291.	1.3	5
8	Catchment-scale groundwater-flow and recharge paradox revealed from base flow analysis during the Australian Millennium Drought (Mt Lofty Ranges, South Australia). <i>Hydrogeology Journal</i> , 2021, 29, 963-983.	2.1	3
9	Alongshore freshwater circulation in offshore aquifers. <i>Journal of Hydrology</i> , 2021, 593, 125915.	5.4	3
10	Analytical, Experimental, and Numerical Investigation of Partially Penetrating Barriers for Expanding Island Freshwater Lenses. <i>Water Resources Research</i> , 2021, 57, e2020WR028386.	4.2	22
11	Mixed-Convective Processes Within Seafloor Sediments Arising From Fresh Groundwater Discharge. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	0
12	Analytical and Experimental Investigation of the Impact of Land Reclamation on Steady-State Seawater Extent in Coastal Aquifers. <i>Water Resources Research</i> , 2021, 57, e2020WR029028.	4.2	6
13	Estimating hydraulic properties from tidal propagation in circular islands. <i>Journal of Hydrology</i> , 2021, 598, 126182.	5.4	3
14	Application of Indicator Kriging to hydraulic head data to test alternative conceptual models for spring source aquifers. <i>Journal of Hydrology</i> , 2021, 601, 126808.	5.4	10
15	Partially penetrating lake-aquifer interaction in a laboratory-scale tidal setting. <i>Journal of Hydrology</i> , 2021, 603, 127080.	5.4	3
16	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Experimental Investigation. <i>Water Resources Research</i> , 2021, 57, e2021WR029728.	4.2	7
17	Modelling the impact of runoff generation on agricultural and urban phosphorus loading of the subtropical Poyang Lake (China). <i>Journal of Hydrology</i> , 2020, 590, 125490.	5.4	9
18	Evaporation and Salt Accumulation Effects on Riparian Freshwater Lenses. <i>Water Resources Research</i> , 2020, 56, e2019WR026380.	4.2	14

#	ARTICLE	IF	CITATIONS
19	Effects of River Partial Penetration on the Occurrence of Riparian Freshwater Lenses: Theoretical Development. <i>Water Resources Research</i> , 2020, 56, e2020WR027786.	4.2	7
20	Preventing Seawater Intrusion and Enhancing Safe Extraction Using Finite-Element Length, Impermeable Subsurface Barriers: 3D Analysis. <i>Water Resources Research</i> , 2020, 56, e2020WR027792.	4.2	27
21	Science sidelined in approval of Australia's largest coal mine. <i>Nature Sustainability</i> , 2020, 3, 644-649.	23.7	18
22	Root-induced changes of soil hydraulic properties – A review. <i>Journal of Hydrology</i> , 2020, 589, 125203.	5.4	88
23	Applicability of analytical solutions to tidal propagation in circular islands. <i>Journal of Hydrology</i> , 2020, 589, 125136.	5.4	5
24	Satellite image-based investigation of the seasonal variations in the hydrological connectivity of a large floodplain (Poyang Lake, China). <i>Journal of Hydrology</i> , 2020, 585, 124810.	5.4	48
25	Adaptive management in groundwater planning and development: A review of theory and applications. <i>Journal of Hydrology</i> , 2020, 586, 124871.	5.4	31
26	Sediment mobilisation and release through groundwater discharge to the land surface: Review and theoretical development. <i>Science of the Total Environment</i> , 2020, 714, 136757.	8.0	11
27	Expanding Freshwater Lenses Adjacent to Gaining Rivers Through Vertical Low-Hydraulic-Conductivity Barriers: Analytical and Experimental Validation. <i>Water Resources Research</i> , 2020, 56, e2019WR025750.	4.2	10
28	Assessment of the impact of sea-level rise on seawater intrusion in sloping confined coastal aquifers. <i>Journal of Hydrology</i> , 2020, 586, 124872.	5.4	20
29	Using geochemistry to discern the patterns and timescales of groundwater recharge and mixing on floodplains in semi-arid regions. <i>Journal of Hydrology</i> , 2019, 570, 612-622.	5.4	15
30	Combined geophysical and analytical methods to estimate offshore freshwater extent. <i>Journal of Hydrology</i> , 2019, 576, 529-540.	5.4	7
31	Dispersion effects on the freshwater-seawater interface in subsea aquifers. <i>Advances in Water Resources</i> , 2019, 130, 184-197.	3.8	4
32	Boundary Condition Nomenclature Confusion in Groundwater Flow Modeling. <i>Ground Water</i> , 2019, 57, 664-668.	1.3	12
33	Evaluation of management scenarios for potable water supply using script-based numerical groundwater models of a freshwater lens. <i>Journal of Hydrology</i> , 2019, 571, 843-855.	5.4	23
34	Effects of stream nitrate data frequency on watershed model performance and prediction uncertainty. <i>Journal of Hydrology</i> , 2019, 569, 22-36.	5.4	18
35	Revisiting analytical solutions for steady interface flow in subsea aquifers: Aquitard salinity effects. <i>Advances in Water Resources</i> , 2018, 116, 117-126.	3.8	13
36	On the representation of subsea aquitards in models of offshore fresh groundwater. <i>Advances in Water Resources</i> , 2018, 112, 283-294.	3.8	13

#	ARTICLE	IF	CITATIONS
37	The onshore influence of offshore fresh groundwater. <i>Journal of Hydrology</i> , 2018, 561, 724-736.	5.4	31
38	A conceptual study of offshore fresh groundwater behaviour in the Perth Basin (Australia): Modern salinity trends in a prehistoric context. <i>Journal of Hydrology: Regional Studies</i> , 2018, 19, 318-334.	2.4	14
39	Modelling size constraints on carbonate platform formation in groundwater upwelling zones. <i>Scientific Reports</i> , 2018, 8, 17460.	3.3	2
40	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 (<i>Environ Earth Sci</i>)	0.0	0
41	On the resilience of small-island freshwater lenses: Evidence of the long-term impacts of groundwater abstraction on Bonriki Island, Kiribati. <i>Journal of Hydrology</i> , 2018, 564, 133-148.	5.4	42
42	The influence of river-lake backflow on the hydrodynamics of a large floodplain lake system (Poyang)	2.6	74
43	Correction factor to account for dispersion in sharp-interface models of terrestrial freshwater lenses and active seawater intrusion. <i>Advances in Water Resources</i> , 2017, 102, 45-52.	3.8	25
44	Hydrogeology and management of freshwater lenses on atoll islands: Review of current knowledge and research needs. <i>Journal of Hydrology</i> , 2017, 551, 819-844.	5.4	107
45	On concentrated solute sources in faulted aquifers. <i>Advances in Water Resources</i> , 2017, 104, 255-270.	3.8	7
46	Science, society, and the coastal groundwater squeeze. <i>Water Resources Research</i> , 2017, 53, 2610-2617.	4.2	169
47	Transient Recharge Estimability Through Field-Scale Groundwater Model Calibration. <i>Ground Water</i> , 2017, 55, 827-840.	1.3	5
48	Characteristics of active seawater intrusion. <i>Journal of Hydrology</i> , 2017, 551, 632-647.	5.4	46
49	Replenishing an unconfined coastal aquifer to control seawater intrusion: Injection or infiltration?. <i>Water Resources Research</i> , 2017, 53, 4775-4786.	4.2	34
50	Evaluation of analytic solutions for steady interface flow where the aquifer extends below the sea. <i>Journal of Hydrology</i> , 2017, 551, 660-664.	5.4	19
51	Problems with the application of hydrogeological science to regulation of Australian mining projects: Carmichael Mine and Doongmabulla Springs. <i>Journal of Hydrology</i> , 2017, 548, 674-682.	5.4	31
52	A Spatially Periodic Solute Boundary for MT3DMS and PHT3D. <i>Ground Water</i> , 2017, 55, 419-427.	1.3	1
53	On the classification of seawater intrusion. <i>Journal of Hydrology</i> , 2017, 551, 619-631.	5.4	59
54	Terrestrial freshwater lenses: Unexplored subterranean oases. <i>Journal of Hydrology</i> , 2017, 553, 501-507.	5.4	20

#	ARTICLE	IF	CITATIONS
55	Characteristics and causal factors of hysteresis in the hydrodynamics of a large floodplain system: Poyang Lake (China). <i>Journal of Hydrology</i> , 2017, 553, 574-583.	5.4	31
56	Is Decoupling GDP Growth from Environmental Impact Possible?. <i>PLoS ONE</i> , 2016, 11, e0164733.	2.5	292
57	Estimability of recharge through groundwater model calibration: Insights from a field-scale steady-state example. <i>Journal of Hydrology</i> , 2016, 540, 973-987.	5.4	37
58	Assessment of the reliability of popular satellite products in characterizing the water balance of the Yangtze River Basin, China. <i>Hydrology Research</i> , 2016, 47, 8-23.	2.7	7
59	GRACE-Based Hydrological Drought Evaluation of the Yangtze River Basin, China. <i>Journal of Hydrometeorology</i> , 2016, 17, 811-828.	1.9	95
60	Comment on "Closed-form analytical solutions for assessing the consequences of sea-level rise on groundwater resources in sloping coastal aquifers" paper published in <i>Hydrogeology Journal</i> (2015) 23:1399-1413, by R. Chesnaux. <i>Hydrogeology Journal</i> , 2016, 24, 1325-1328.	2.1	1
61	Groundwater flow systems theory: research challenges beyond the specified-head top boundary condition. <i>Hydrogeology Journal</i> , 2016, 24, 1087-1090.	2.1	30
62	Terrestrial freshwater lenses in stable riverine settings: Occurrence and controlling factors. <i>Water Resources Research</i> , 2016, 52, 3654-3662.	4.2	20
63	On the effects of preferential or barrier flow features on solute plumes in permeable porous media. <i>Advances in Water Resources</i> , 2016, 98, 32-46.	3.8	9
64	Plausibility of freshwater lenses adjacent to gaining rivers: Validation by laboratory experimentation. <i>Water Resources Research</i> , 2016, 52, 8487-8499.	4.2	14
65	Application of an Analytical Solution as a Screening Tool for Sea Water Intrusion. <i>Ground Water</i> , 2016, 54, 709-718.	1.3	31
66	A modelling investigation of solute transport in permeable porous media containing a discrete preferential flow feature. <i>Advances in Water Resources</i> , 2016, 94, 307-317.	3.8	24
67	Saltwater upconing zone of influence. <i>Advances in Water Resources</i> , 2016, 94, 75-86.	3.8	35
68	Investigating a complex lake-catchment-river system using artificial neural networks: Poyang Lake (China). <i>Hydrology Research</i> , 2015, 46, 912-928.	2.7	77
69	A national inventory of seawater intrusion vulnerability for Australia. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 686-698.	2.4	32
70	Water table salinization due to seawater intrusion. <i>Water Resources Research</i> , 2015, 51, 8397-8408.	4.2	75
71	Occurrence of seawater intrusion overshoot. <i>Water Resources Research</i> , 2015, 51, 1989-1999.	4.2	31
72	Seawater intrusion in fractured coastal aquifers: A preliminary numerical investigation using a fractured Henry problem. <i>Advances in Water Resources</i> , 2015, 85, 93-108.	3.8	81

#	ARTICLE	IF	CITATIONS
73	Quantifying climate and pumping contributions to aquifer depletion using a highly parameterised groundwater model: Uley South Basin (South Australia). <i>Journal of Hydrology</i> , 2015, 523, 515-530.	5.4	23
74	Hysteretic relationships in inundation dynamics for a large lakeâ€“floodplain system. <i>Journal of Hydrology</i> , 2015, 527, 160-171.	5.4	63
75	An exploration of coupled surfaceâ€“subsurface solute transport in a fully integrated catchment model. <i>Journal of Hydrology</i> , 2015, 529, 969-979.	5.4	19
76	A Correction on Coastal Heads for Groundwater Flow Models. <i>Ground Water</i> , 2015, 53, 164-170.	1.3	17
77	Heat and Solute Tracers: How Do They Compare in Heterogeneous Aquifers?. <i>Ground Water</i> , 2015, 53, 10-20.	1.3	40
78	Investigating the influence of aquifer heterogeneity on the potential for thermal free convection in the Yarragadee Aquifer, Western Australia. <i>Hydrogeology Journal</i> , 2015, 23, 161-173.	2.1	7
79	Karst Aquifer Recharge: Comments on Somaratne, N. Characteristics of Point Recharge in Karst Aquifers. <i>Water</i> 2014, 6, 2782â€“2807. <i>Water (Switzerland)</i> , 2014, 6, 3727-3738.	2.7	4
80	Spatial variability of chloride deposition in a vegetated coastal area: Implications for groundwater recharge estimation. <i>Journal of Hydrology</i> , 2014, 519, 1177-1191.	5.4	45
81	Fully integrated modeling of surfaceâ€“subsurface solute transport and the effect of dispersion in tracer hydrograph separation. <i>Water Resources Research</i> , 2014, 50, 7750-7765.	4.2	19
82	Spatial Periodic Boundary Condition for <scp>MODFLOW</scp>. <i>Ground Water</i> , 2014, 52, 606-612.	1.3	3
83	Influence of model conceptualisation on one-dimensional recharge quantification: Uley South, South Australia. <i>Hydrogeology Journal</i> , 2014, 22, 795-805.	2.1	12
84	Seawater intrusion vulnerability indicators for freshwater lenses in strip islands. <i>Journal of Hydrology</i> , 2014, 508, 322-327.	5.4	52
85	Bias of Apparent Tracer Ages in Heterogeneous Environments. <i>Ground Water</i> , 2014, 52, 239-250.	1.3	48
86	Influence of Boundary Condition Types on Unstable Densityâ€“Dependent Flow. <i>Ground Water</i> , 2014, 52, 378-387.	1.3	9
87	Impact of fracture network geometry on free convective flow patterns. <i>Advances in Water Resources</i> , 2014, 71, 65-80.	3.8	28
88	Vertical leakage in sharp-interface seawater intrusion models of layered coastal aquifers. <i>Journal of Hydrology</i> , 2014, 519, 1097-1107.	5.4	31
89	Seaâ€“level rise impact on fresh groundwater lenses in twoâ€“layer small islands. <i>Hydrological Processes</i> , 2014, 28, 5938-5953.	2.6	94
90	An investigation of enhanced recessions in Poyang Lake: Comparison of Yangtze River and local catchment impacts. <i>Journal of Hydrology</i> , 2014, 517, 425-434.	5.4	280

#	ARTICLE	IF	CITATIONS
91	Hydrodynamic and Hydrological Modeling of the Poyang Lake Catchment System in China. Journal of Hydrologic Engineering - ASCE, 2014, 19, 607-616.	1.9	137
92	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
93	Maximizing Net Extraction Using an Injectionâ€Extraction Well Pair in a Coastal Aquifer. Ground Water, 2013, 51, 219-228.	1.3	23
94	Groundwater ages in coastal aquifers. Advances in Water Resources, 2013, 57, 1-11.	3.8	64
95	Timescales of seawater intrusion and retreat. Advances in Water Resources, 2013, 59, 39-51.	3.8	80
96	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
97	An assessment of seawater intrusion overshoot using physical and numerical modeling. Water Resources Research, 2013, 49, 6522-6526.	4.2	60
98	Threats to coastal aquifers. Nature Climate Change, 2013, 3, 605-605.	18.8	23
99	An Initial Inventory and Indexation of Groundwater Mega-Depletion Cases. Water Resources Management, 2013, 27, 507-533.	3.9	63
100	Natural saltwater upconing by preferential groundwater discharge through boils. Journal of Hydrology, 2013, 490, 74-87.	5.4	39
101	On the implementation of the surface conductance approach using a block-centred surfaceâ€subsurface hydrology model. Journal of Hydrology, 2013, 496, 1-8.	5.4	5
102	Seawater intrusion processes, investigation and management: Recent advances and future challenges. Advances in Water Resources, 2013, 51, 3-26.	3.8	1,046
103	Application of a Rapid-Assessment Method for Seawater Intrusion Vulnerability: Willunga Basin, South Australia. Coastal Research Library, 2013, , 205-225.	0.4	10
104	Three-Dimensional Seawater Intrusion Modelling of Uley South Basin, South Australia. Coastal Research Library, 2013, , 177-203.	0.4	0
105	Seawater Intrusion Under Current Sea-Level Rise: Processes Accompanying Coastline Transgression. Coastal Research Library, 2013, , 295-313.	0.4	6
106	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
107	On the testing of fully integrated surfaceâ€subsurface hydrological models. Hydrological Processes, 2013, 27, 1276-1285.	2.6	40
108	Has the Threeâ€Gorges Dam made the Poyang Lake wetlands wetter and drier?. Geophysical Research Letters, 2012, 39, .	4.0	201

#	ARTICLE	IF	CITATIONS
109	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
110	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
111	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
112	Prediction and uncertainty of free convection phenomena in porous media. Water Resources Research, 2012, 48, .	4.2	31
113	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
114	Vulnerability Indicators of Sea Water Intrusion. Ground Water, 2012, 50, 48-58.	1.3	159
115	Tracer adsorption in sand-tank experiments of saltwater up-coning. Journal of Hydrology, 2012, 414-415, 476-481.	5.4	17
116	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
117	Groundwater recharge to a sedimentary aquifer in the topographically closed Uley South Basin, South Australia. Hydrogeology Journal, 2012, 20, 61-72.	2.1	36
118	Speed of free convective fingering in porous media. Water Resources Research, 2011, 47, .	4.2	43
119	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
120	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
121	Numerical modelling of saltwater up-coning: Comparison with experimental laboratory observations. Journal of Hydrology, 2011, 402, 261-273.	5.4	61
122	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
123	On the Panday and Huyakorn surface-subsurface hydrology test case: analysis of internal flow dynamics. Hydrological Processes, 2011, 25, 2085-2093.	2.6	15
124	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
125	Variable density groundwater flow: from modelling to applications. , 2010, , 87-118.		14
126	A review of seawater intrusion and its management in Australia. Hydrogeology Journal, 2010, 18, 281-285.	2.1	116

#	ARTICLE	IF	CITATIONS
127	Effect of transient solute loading on free convection in porous media. <i>Water Resources Research</i> , 2010, 46, .	4.2	25
128	Transience of seawater intrusion in response to sea level rise. <i>Water Resources Research</i> , 2010, 46, .	4.2	107
129	Experimental observations of saltwater up-coning. <i>Journal of Hydrology</i> , 2009, 373, 230-241.	5.4	103
130	Influence of variable salinity conditions in a tidal creek on riparian groundwater flow and salinity dynamics. <i>Journal of Hydrology</i> , 2009, 375, 536-545.	5.4	42
131	Influence of soil moisture hysteresis on the functioning of capillary barriers. <i>Hydrological Processes</i> , 2009, 23, 1369-1375.	2.6	20
132	Fractured bedrock and saprolite hydrogeologic controls on groundwater/surface-water interaction: a conceptual model (Australia). <i>Hydrogeology Journal</i> , 2009, 17, 1969-1989.	2.1	83
133	Integrated Surface-Subsurface Modeling of Fuxianhu Lake Catchment, Southwest China. <i>Water Resources Management</i> , 2009, 23, 2189-2204.	3.9	41
134	Impact of Sea-Level Rise on Sea Water Intrusion in Coastal Aquifers. <i>Ground Water</i> , 2009, 47, 197-204.	1.3	447
135	Tidal controls on coastal groundwater conditions: field investigation of a macrotidal system. <i>Australian Journal of Earth Sciences</i> , 2009, 56, 1165-1179.	1.0	18
136	Salinograph trends as indicators of the recession characteristics of stream components. <i>Hydrological Processes</i> , 2008, 22, 3020-3028.	2.6	6
137	Comment on H.-C. Huang, Y.-C. Tan, C.-W. Liu and C.-H. Chen, A novel hysteresis model in unsaturated soil. <i>Hydrological Processes</i> 19 (2005) 1653-1665. <i>Hydrological Processes</i> , 2007, 21, 411-412.	2.6	1
138	Artificial pumping errors in the Kool-Parker scaling model of soil moisture hysteresis. <i>Journal of Hydrology</i> , 2006, 325, 118-133.	5.4	24
139	Tidal impacts on riparian salinities near estuaries. <i>Journal of Hydrology</i> , 2006, 328, 511-522.	5.4	57
140	Regional-scale, fully coupled modelling of stream-aquifer interaction in a tropical catchment. <i>Journal of Hydrology</i> , 2006, 328, 497-510.	5.4	65
141	Characterisation of sea-water intrusion in the Pioneer Valley, Australia using hydrochemistry and three-dimensional numerical modelling. <i>Hydrogeology Journal</i> , 2006, 14, 1452-1469.	2.1	106
142	Dynamic groundwater and salt transport near a tidal, partially penetrating estuary. <i>Developments in Water Science</i> , 2004, , 1535-1547.	0.1	2
143	Influence of hysteresis on tidal capillary fringe dynamics in a well-sorted sand. <i>Advances in Water Resources</i> , 2003, 26, 1199-1204.	3.8	38