

Vincent E A Post

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

4,243
citations

126907

33
h-index

114465

63
g-index

102
all docs

102
docs citations

102
times ranked

3353
citing authors

#	ARTICLE	IF	CITATIONS
1	Seawater intrusion processes, investigation and management: Recent advances and future challenges. <i>Advances in Water Resources</i> , 2013, 51, 3-26.	3.8	1,046
2	Offshore fresh groundwater reserves as a global phenomenon. <i>Nature</i> , 2013, 504, 71-78.	27.8	245
3	Science, society, and the coastal groundwater squeeze. <i>Water Resources Research</i> , 2017, 53, 2610-2617.	4.2	169
4	A hydrogeological and hydrochemical explanation of the groundwater composition under irrigated land in a Mediterranean environment, Algarve, Portugal. <i>Journal of Hydrology</i> , 1998, 208, 262-279.	5.4	156
5	Equations for calculating hydrogeochemical reactions of minerals and gases such as CO ₂ at high pressures and temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 49-67.	3.9	134
6	Using Hydraulic Head Measurements in Variable-Density Ground Water Flow Analyses. <i>Ground Water</i> , 2007, 45, 664-671.	1.3	132
7	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
8	Process-Based Reactive Transport Model To Quantify Arsenic Mobility during Aquifer Storage and Recovery of Potable Water. <i>Environmental Science & Technology</i> , 2011, 45, 6924-6931.	10.0	90
9	Review: Hydraulic head measurements—new technologies, classic pitfalls. <i>Hydrogeology Journal</i> , 2013, 21, 737-750.	2.1	90
10	Physical Controls on Biogeochemical Processes in Intertidal Zones of Beach Aquifers. <i>Water Resources Research</i> , 2017, 53, 9225-9244.	4.2	83
11	Spatial Patterns of Groundwater Biogeochemical Reactivity in an Intertidal Beach Aquifer. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2017, 122, 2548-2562.	3.0	81
12	Groundwater salinization processes and reversibility of seawater intrusion in coastal carbonate aquifers. <i>Journal of Hydrology</i> , 2015, 531, 1067-1080.	5.4	75
13	Effects of tidal fluctuations and spatial heterogeneity on mixing and spreading in spatially heterogeneous coastal aquifers. <i>Water Resources Research</i> , 2015, 51, 1570-1585.	4.2	72
14	Preface: Saltwater and freshwater interactions in coastal aquifers. <i>Hydrogeology Journal</i> , 2010, 18, 1-4.	2.1	68
15	Groundwater ages in coastal aquifers. <i>Advances in Water Resources</i> , 2013, 57, 1-11.	3.8	64
16	Evaluation of Conceptual and Numerical Models for Arsenic Mobilization and Attenuation during Managed Aquifer Recharge. <i>Environmental Science & Technology</i> , 2010, 44, 5035-5041.	10.0	63
17	An assessment of seawater intrusion overshoot using physical and numerical modeling. <i>Water Resources Research</i> , 2013, 49, 6522-6526.	4.2	60
18	Rates of salinization by free convection in high-permeability sediments: insights from numerical modeling and application to the Dutch coastal area. <i>Hydrogeology Journal</i> , 2003, 11, 549-559.	2.1	58

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19	Density-driven vertical transport of saltwater through the freshwater lens on the island of Baltrum (Germany) following the 1962 storm flood. <i>Journal of Hydrology</i> , 2017, 551, 689-702.	5.4	58
20	The impact of low-temperature seasonal aquifer thermal energy storage (SATES) systems on chlorinated solvent contaminated groundwater: Modeling of spreading and degradation. <i>Journal of Contaminant Hydrology</i> , 2013, 147, 1-13.	3.3	56
21	How significant is the slope of the sea-side boundary for modelling seawater intrusion in coastal aquifers?. <i>Journal of Hydrology</i> , 2017, 551, 648-659.	5.4	49
22	Free convective controls on sequestration of salts into low-permeability strata: insights from sand tank laboratory experiments and numerical modelling. <i>Hydrogeology Journal</i> , 2010, 18, 39-54.	2.1	45
23	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
24	Effects of tidal fluctuations on mixing and spreading in coastal aquifers: Homogeneous case. <i>Water Resources Research</i> , 2014, 50, 6910-6926.	4.2	45
25	Comparison of MODIS and SWAT evapotranspiration over a complex terrain at different spatial scales. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2775-2794.	4.9	42
26	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
27	The origin of brackish and saline groundwater in the coastal area of the Netherlands. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2003, 82, 133-147.	0.9	40
28	Island groundwater resources, impacts of abstraction and a drying climate: Rottneest Island, Western Australia. <i>Journal of Hydrology</i> , 2016, 542, 704-718.	5.4	40
29	Rainwater lens dynamics and mixing between infiltrating rainwater and upward saline groundwater seepage beneath a tile-drained agricultural field. <i>Journal of Hydrology</i> , 2013, 501, 133-145.	5.4	39
30	Terrestrial sedimentary pyrites as a potential source of trace metal release to groundwater – A case study from the Emsland, Germany. <i>Applied Geochemistry</i> , 2017, 76, 99-111.	3.0	39
31	The first field-based descriptions of pumping-induced saltwater intrusion and upconing. <i>Hydrogeology Journal</i> , 2017, 25, 243-247.	2.1	38
32	Groundwater recharge to a sedimentary aquifer in the topographically closed Uley South Basin, South Australia. <i>Hydrogeology Journal</i> , 2012, 20, 61-72.	2.1	36
33	Tidal Boundary Conditions in SEAWAT. <i>Ground Water</i> , 2011, 49, 866-879.	1.3	35
34	Saltwater upconing zone of influence. <i>Advances in Water Resources</i> , 2016, 94, 75-86.	3.8	35
35	Error in hydraulic head and gradient time-series measurements: a quantitative appraisal. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3603-3629.	4.9	31
36	Uncertainties in vertical groundwater fluxes from 1D steady state heat transport analyses caused by heterogeneity, multidimensional flow, and climate change. <i>Water Resources Research</i> , 2016, 52, 813-826.	4.2	30

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37	Groundwater salinity patterns along the coast of the Western Netherlands and the application of cone penetration tests. <i>Journal of Hydrology</i> , 2017, 551, 756-767.	5.4	30
38	Weathering and evaporation controls on dissolved uranium concentrations in groundwater – A case study from northern Burundi. <i>Science of the Total Environment</i> , 2017, 607-608, 281-293.	8.0	29
39	Groundwater flow estimation using temperature-depth profiles in a complex environment and a changing climate. <i>Science of the Total Environment</i> , 2017, 574, 272-281.	8.0	29
40	What is the Ghijben-Herzberg principle and who formulated it?. <i>Hydrogeology Journal</i> , 2018, 26, 1801-1807.	2.1	29
41	Continental-shelf freshwater water resources and improved oil recovery by low-salinity waterflooding. <i>AAPG Bulletin</i> , 2017, 101, 1-18.	1.5	28
42	A new package for simulating periodic boundary conditions in MODFLOW and SEAWAT. <i>Computers and Geosciences</i> , 2011, 37, 1843-1849.	4.2	26
43	Influences on the carbonate hydrochemistry of mound spring environments, Lake Eyre South region, South Australia. <i>Chemical Geology</i> , 2012, 296-297, 50-65.	3.3	25
44	Annotated translation of –Nota in verband met de voorgenomen putboring nabij Amsterdam [Note concerning the intended well drilling near Amsterdam]–by J. Drabbe and W. Badon Ghijben (1889). <i>Hydrogeology Journal</i> , 2018, 26, 1771-1788.	2.1	24
45	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
46	Celebrating 50 years of SWIMs (Salt Water Intrusion Meetings). <i>Hydrogeology Journal</i> , 2018, 26, 1767-1770.	2.1	20
47	A State-Of-The-Art Perspective on the Characterization of Subterranean Estuaries at the Regional Scale. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	20
48	Numerical investigation of coupled density-driven flow and hydrogeochemical processes below playas. <i>Water Resources Research</i> , 2015, 51, 9338-9352.	4.2	19
49	Carbon-14 in streams as a tracer of discharging groundwater. <i>Journal of Hydrology</i> , 2014, 519, 117-130.	5.4	18
50	Carbon dynamics in a Late Quaternary-age coastal limestone aquifer system undergoing saltwater intrusion. <i>Science of the Total Environment</i> , 2017, 607-608, 771-785.	8.0	18
51	Tracer adsorption in sand-tank experiments of saltwater up-coning. <i>Journal of Hydrology</i> , 2012, 414-415, 476-481.	5.4	17
52	Simulating adsorption of U(VI) under transient groundwater flow and hydrochemistry: Physical versus chemical nonequilibrium model. <i>Water Resources Research</i> , 2011, 47, .	4.2	16
53	Validity and slopes of the linear equation of state for natural brines in salt lake systems. <i>Journal of Hydrology</i> , 2015, 523, 190-195.	5.4	16
54	Use of U-isotopes in exploring groundwater flow and inter-aquifer leakage in the south-western margin of the Great Artesian Basin and Arckaringa Basin, central Australia. <i>Applied Geochemistry</i> , 2018, 98, 331-344.	3.0	15

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55	Groundwater flow in the transition zone between freshwater and saltwater: a field-based study and analysis of measurement errors. <i>Hydrogeology Journal</i> , 2018, 26, 1821-1838.	2.1	14
56	Future-proofing hydrogeology by revising groundwater monitoring practice. <i>Hydrogeology Journal</i> , 2020, 28, 2963-2969.	2.1	14
57	Closed-Form Approximations for Two-Dimensional Groundwater Age Patterns in a Fresh Water Lens. <i>Ground Water</i> , 2013, 51, 629-634.	1.3	13
58	Using predictive uncertainty analysis to optimise tracer test design and data acquisition. <i>Journal of Hydrology</i> , 2014, 515, 191-204.	5.4	13
59	Simulating MODFLOW-Based Reactive Transport Under Radially Symmetric Flow Conditions. <i>Ground Water</i> , 2013, 51, 398-413.	1.3	12
60	Influence of model conceptualisation on one-dimensional recharge quantification: Uley South, South Australia. <i>Hydrogeology Journal</i> , 2014, 22, 795-805.	2.1	12
61	Detecting inter-aquifer leakage in areas with limited data using hydraulics and multiple environmental tracers, including ^4He , $^{36}\text{Cl}/\text{Cl}$, ^{14}C and $^{87}\text{Sr}/^{86}\text{Sr}$. <i>Hydrogeology Journal</i> , 2017, 25, 2031-2047.	2.1	12
62	How water isotopes (^{18}O , ^2H , ^3H) within an island freshwater lens respond to changes in rainfall. <i>Water Research</i> , 2020, 170, 115301.	11.3	12
63	Reactive transport modelling of groundwater-bentonite interaction: Effects on exchangeable cations in an alternative buffer material in-situ test. <i>Applied Geochemistry</i> , 2016, 73, 59-69.	3.0	11
64	High Uranium Concentrations in Groundwater in Burundi. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 524-527.	0.6	9
65	Behaviour of Tritium and Tritiogenic Helium in Freshwater Lens Groundwater Systems: Insights from Langeoog Island, Germany. <i>Geofluids</i> , 2019, 2019, 1-16.	0.7	9
66	³PHT3D-CUF: A Reactive Transport Model for Variably-Saturated Porous Media. <i>Ground Water</i> , 2016, 54, 23-34.	1.3	8
67	Transient forcing effects on mixing of two fluids for a stable stratification. <i>Water Resources Research</i> , 2016, 52, 7178-7197.	4.2	8
68	Mg and silica release in short-term dissolution tests in bentonites. <i>Applied Clay Science</i> , 2019, 172, 106-114.	5.2	8
69	Spatiotemporal evolution of iron and sulfate concentrations during riverbank filtration: Field observations and reactive transport modeling. <i>Journal of Contaminant Hydrology</i> , 2020, 234, 103697.	3.3	8
70	Experimental observations of aquifer storage and recovery in brackish aquifers using multiple partially penetrating wells. <i>Hydrogeology Journal</i> , 2021, 29, 1733-1748.	2.1	8
71	Palaeohydrogeology and Transport Parameters Derived from ^4He and Cl Profiles in Aquitard Pore Waters in a Large Multilayer Aquifer System, Central Australia. <i>Geofluids</i> , 2017, 2017, 1-17.	0.7	7
72	Fresh groundwater lens dynamics of a small bedrock island in the tropics, Northern Australia. <i>Journal of Hydrology</i> , 2021, 595, 125942.	5.4	7

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73	Spatial periodicity in bed form-scale solute and thermal transport models of the hyporheic zone. <i>Water Resources Research</i> , 2014, 50, 7886-7899.	4.2	6
74	Integration of In Situ Experiments and Numerical Simulations to Reveal the Physicochemical Circumstances of Organic and Inorganic Precipitation at a Thermal Spring. <i>Aquatic Geochemistry</i> , 2018, 24, 231-255.	1.3	6
75	The intertidal springs near the Vergulde Draak 1656 wreck site, Western Australia: hydrogeological characteristics and archaeological significance. <i>Hydrogeology Journal</i> , 2020, 28, 2071-2084.	2.1	4
76	On the Propagation of Reaction Fronts in a Sandy Aquifer Over 20+ Years: Lessons From a Test Site in Northwestern Germany. <i>Water Resources Research</i> , 2021, 57, e2020WR028706.	4.2	4
77	Spatial Periodic Boundary Condition for <scp>MODFLOW</scp>. <i>Ground Water</i> , 2014, 52, 606-612.	1.3	3
78	Environmental Tracers in Groundwaters and Porewaters to Understand Groundwater Movement Through an Argillaceous Aquitard. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 420-423.	0.6	3
79	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</i>) Tj ETQq1 1 0.284314 rgBT /Over	0.7	2
80	Reply to comment by Behzad Ataie-Ashtiani on "Effects of tidal fluctuations on mixing and spreading in coastal aquifers: Homogeneous case". <i>Water Resources Research</i> , 2015, 51, 4859-4860.	4.2	2
81	Modelling size constraints on carbonate platform formation in groundwater upwelling zones. <i>Scientific Reports</i> , 2018, 8, 17460.	3.3	2
82	Corrigendum to "Palaeohydrogeology and Transport Parameters Derived from ⁴ He and Cl Profiles in Aquitard Pore Waters in a Large Multilayer Aquifer System, Central Australia". <i>Geofluids</i> , 2018, 2018, 1-1.	0.7	2
83	Introduction to Coastal Groundwater Systems. , 2019, , 1-18.		2
84	Effect of time-varying wave conditions on the fate of nitrogen in a freshwater unconfined nearshore aquifer. <i>Advances in Water Resources</i> , 2022, 167, 104273.	3.8	2
85	HydroGeo Analyst: A Data Management Solution to Ground Water and Environmental Projects. <i>Ground Water</i> , 2008, 46, 349-353.	1.3	1
86	Editor's Message: Hydrogeology education, textbooks and "Foundations" articles. <i>Hydrogeology Journal</i> , 2013, 21, 735-736.	2.1	1
87	A Spatially Periodic Solute Boundary for MT3DMS and PHT3D. <i>Ground Water</i> , 2017, 55, 419-427.	1.3	1
88	Coastal Palaeo-Hydrogeology. , 2019, , 215-254.		1
89	Governing Equations for Variable-Density Flow. , 2019, , 19-46.		0
90	Analytical Solutions for a Steady Freshwater-Saltwater Interface. , 2019, , 47-72.		0

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91	Groundwater Tidal Dynamics. , 2019, , 73-103.		0
92	Hydrogeochemistry of Coastal Aquifer Systems. , 2019, , 104-158.		0
93	Seawater Intrusion. , 2019, , 159-186.		0
94	Submarine Groundwater Discharge. , 2019, , 187-214.		0
95	Impact of Land Reclamation on Coastal Groundwater Systems. , 2019, , 255-282.		0
96	Sea Level Change and Coastal Aquifers. , 2019, , 283-297.		0
97	Tide-Induced Airflow in Unsaturated Zones. , 2019, , 298-313.		0
98	Coastal Aquifer Management and Seawater Intrusion Control. , 2019, , 314-348.		0