

Martin S Andersen

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,329
citations

172457

29
h-index

233421

45
g-index

77
all docs

77
docs citations

77
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat as a tracer to quantify water flow in near-surface sediments. <i>Earth-Science Reviews</i> , 2014, 129, 40-58.	9.1	161
2	Experimental investigation of the thermal dispersivity term and its significance in the heat transport equation for flow in sediments. <i>Water Resources Research</i> , 2012, 48, .	4.2	128
3	Analytical methods that use natural heat as a tracer to quantify surface water–groundwater exchange, evaluated using field temperature records. <i>Hydrogeology Journal</i> , 2010, 18, 1093-1110.	2.1	116
4	Social tipping points in global groundwater management. <i>Nature Human Behaviour</i> , 2017, 1, 640-649.	12.0	89
5	A 1D analytical method for estimating surface water–groundwater interactions and effective thermal diffusivity using temperature time series. <i>Water Resources Research</i> , 2012, 48, .	4.2	84
6	Investigating the spatio-temporal variability in groundwater and surface water interactions: a multi-technique approach. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3437-3453.	4.9	72
7	A new conceptual framework for the transformation of groundwater dissolved organic matter. <i>Nature Communications</i> , 2022, 13, 2153.	12.8	69
8	Drip water isotopes in semi-arid karst: Implications for speleothem paleoclimatology. <i>Earth and Planetary Science Letters</i> , 2014, 395, 194-204.	4.4	66
9	River–aquifer interactions in a semi-arid environment stressed by groundwater abstraction. <i>Hydrological Processes</i> , 2013, 27, 1072-1085.	2.6	63
10	Dripwater organic matter and trace element geochemistry in a semi-arid karst environment: Implications for speleothem paleoclimatology. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 217-230.	3.9	61
11	Understanding and quantifying focused, indirect groundwater recharge from ephemeral streams using water table fluctuations. <i>Water Resources Research</i> , 2016, 52, 827-840.	4.2	61
12	Changes in groundwater dissolved organic matter character in a coastal sand aquifer due to rainfall recharge. <i>Water Research</i> , 2020, 169, 115201.	11.3	60
13	Stream-aquifer interactions in the Maules Creek catchment, Namoi Valley, New South Wales, Australia. <i>Hydrogeology Journal</i> , 2009, 17, 2005-2021.	2.1	58
14	Investigation of the kinetics of water uptake into partially saturated shales. <i>Water Resources Research</i> , 2016, 52, 2420-2438.	4.2	50
15	Utilizing the Impact of Earth and Atmospheric Tides on Groundwater Systems: A Review Reveals the Future Potential. <i>Reviews of Geophysics</i> , 2019, 57, 281-315.	23.0	50
16	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
17	Semi-arid zone caves: Evaporation and hydrological controls on $\delta^{18}\text{O}$ drip water composition and implications for speleothem paleoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2016, 131, 285-301.	3.0	40
18	Use of heat as tracer to quantify vertical streambed flow in a two-dimensional flow field. <i>Water Resources Research</i> , 2012, 48, .	4.2	38

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19	High rates of organic carbon processing in the hyporheic zone of intermittent streams. <i>Scientific Reports</i> , 2017, 7, 13198.	3.3	38
20	River-aquifer interactions in a semiarid environment investigated using point and reach measurements. <i>Water Resources Research</i> , 2014, 50, 2815-2829.	4.2	37
21	Unsaturated zone hydrology and cave drip discharge water response: Implications for speleothem paleoclimate record variability. <i>Journal of Hydrology</i> , 2015, 529, 662-675.	5.4	37
22	Characterising the dynamics of surface water-groundwater interactions in intermittent and ephemeral streams using streambed thermal signatures. <i>Advances in Water Resources</i> , 2017, 107, 354-369.	3.8	37
23	Characterisation of shallow groundwater dissolved organic matter in aeolian, alluvial and fractured rock aquifers. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 163-176.	3.9	37
24	Experimental investigation of the thermal time-series method for surface water-groundwater interactions. <i>Water Resources Research</i> , 2012, 48, .	4.2	36
25	Assessing the accuracy of ^{14}C analytical heat tracing for estimating near-surface sediment thermal diffusivity and water flux under transient conditions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1551-1573.	2.8	34
26	Pyrite Oxidation in Unsaturated Aquifer Sediments. <i>Reaction Stoichiometry and Rate of Oxidation. Environmental Science & Technology</i> , 2001, 35, 4074-4079.	10.0	33
27	Association of Arsenic and Phosphorus with Iron Nanoparticles between Streams and Aquifers: Implications for Arsenic Mobility. <i>Environmental Science & Technology</i> , 2015, 49, 14101-14109.	10.0	33
28	Heat as a tracer to quantify processes and properties in the vadose zone: A review. <i>Earth-Science Reviews</i> , 2016, 159, 358-373.	9.1	33
29	Controls on cave drip water temperature and implications for speleothem-based paleoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2015, 127, 19-36.	3.0	31
30	Dating stalagmites in mediterranean climates using annual trace element cycles. <i>Scientific Reports</i> , 2017, 7, 621.	3.3	30
31	Evaporative cooling of speleothem drip water. <i>Scientific Reports</i> , 2014, 4, 5162.	3.3	29
32	Hydrogeology Journal		
33	Aquifer heterogeneity and response time: the challenge for groundwater management. <i>Crop and Pasture Science</i> , 2013, 64, 1141.	1.5	24
34	Organic characterisation of cave drip water by LC-OCD and fluorescence analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 15-28.	3.9	23
35	A post-wildfire response in cave dripwater chemistry. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2745-2758.	4.9	23
36	Groundwater fluxes and flow paths within coastal barriers: Observations from a large-scale laboratory experiment (BARDEX II). <i>Coastal Engineering</i> , 2016, 113, 104-116.	4.0	23

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37	Riverâ€“groundwater connectivity in a karst system, Wellington, New South Wales, Australia. <i>Hydrogeology Journal</i> , 2017, 25, 557-574.	2.1	23
38	ComprensiÃ³n de los procesos de agua subterrÃ¡nea mediante la representaciÃ³n de la heterogeneidad del acuÃ¡fero en la cuenca del arroyo Maules, Namoi Valley (Nueva Gales del Sur, Australia). <i>Hydrogeology Journal</i> , 2012, 20, 1027-1044.	2.1	22
39	A reassessment of the Lower Namoi Catchment aquifer architecture and hydraulic connectivity with reference to climate drivers. <i>Australian Journal of Earth Sciences</i> , 2014, 61, 501-511.	1.0	19
40	Effect of Transient Wave Forcing on the Behavior of Arsenic in a Nearshore Aquifer. <i>Environmental Science & Technology</i> , 2018, 52, 12338-12348.	10.0	19
41	Characterisation of groundwater dissolved organic matter using LC OCD: Implications for water treatment. <i>Water Research</i> , 2021, 188, 116422.	11.3	19
42	What determines the calcium concentration of speleothem-forming drip waters?. <i>Global and Planetary Change</i> , 2016, 143, 152-161.	3.5	18
43	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
44	Modelling the 14C bomb-pulse in young speleothems using a soil carbon continuum model. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 342-367.	3.9	18
45	Dissolved Organic Carbon Mobilisation in a Groundwater System Stressed by Pumping. <i>Scientific Reports</i> , 2016, 5, 18487.	3.3	17
46	To what extent do long-duration high-volume dam releases influence riverâ€“aquifer interactions? A case study in New South Wales, Australia. <i>Hydrogeology Journal</i> , 2015, 23, 319-334.	2.1	16
47	Improved spatial delineation of streambed properties and water fluxes using distributed temperature sensing. <i>Hydrological Processes</i> , 2016, 30, 2686-2702.	2.6	16
48	RADIOCARBON PROTOCOLS AND FIRST INTERCOMPARISON RESULTS FROM THE CHRONOS ¹⁴ CARBON-CYCLE FACILITY, UNIVERSITY OF NEW SOUTH WALES, SYDNEY, AUSTRALIA. <i>Radiocarbon</i> , 2021, 63, 1003-1023.	1.8	16
49	Effects of wildfire on long-term soil CO2 concentration: implications for karst processes. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	15
50	A multi-tracer approach to constraining artesian groundwater discharge into an alluvial aquifer. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5953-5969.	4.9	15
51	Phosphorus and arsenic distributions in a seasonally stratified, iron- and manganese-rich lake: microbiological and geochemical controls. <i>Environmental Chemistry</i> , 2015, 12, 708.	1.5	14
52	Future-proofing hydrogeology by revising groundwater monitoring practice. <i>Hydrogeology Journal</i> , 2020, 28, 2963-2969.	2.1	14
53	Quantifying groundwater carbon dioxide and methane fluxes to an urban freshwater lake using radon measurements. <i>Science of the Total Environment</i> , 2021, 797, 149184.	8.0	14
54	Hydrological and geochemical responses of fire in a shallow cave system. <i>Science of the Total Environment</i> , 2019, 662, 180-191.	8.0	12

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55	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
56	Dynamics of microbiotic patterns reveal surface water groundwater interactions in intermittent and perennial streams. <i>Science of the Total Environment</i> , 2022, 811, 152380.	8.0	12
57	A New Method for Estimating Recharge to Unconfined Aquifers Using Differential River Gauging. <i>Ground Water</i> , 2014, 52, 291-297.	1.3	11
58	An irrigation experiment to compare soil, water and speleothem tetraether membrane lipid distributions. <i>Organic Geochemistry</i> , 2016, 94, 12-20.	1.8	11
59	Runoff and focused groundwater-recharge response to flooding rains in the arid zone of Australia. <i>Hydrogeology Journal</i> , 2021, 29, 737-764.	2.1	11
60	Field Measurement of Fluorescent Dissolved Organic Material as a Means of Early Detection of Leachate Plumes. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	10
61	Groundwater supports intermittent-stream food webs. <i>Freshwater Science</i> , 2018, 37, 42-53.	1.8	10
62	Modern speleothem oxygen isotope hydroclimate records in water-limited SE Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 431-448.	3.9	10
63	The impact of fire on the geochemistry of speleothem-forming drip water in a sub-alpine cave. <i>Science of the Total Environment</i> , 2018, 642, 408-420.	8.0	9
64	Calculating water saturation from passive temperature measurements in near-surface sediments: Development of a semi-analytical model. <i>Advances in Water Resources</i> , 2016, 89, 67-79.	3.8	8
65	One Thousand Three Hundred Years of Variability in the Position of the South Pacific Convergence Zone. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088238.	4.0	8
66	A comparison of radon, heat tracer and head gradient methods to quantify surface water - groundwater exchange in a tidal wetland (Kooragang Island, Newcastle, Australia). <i>Journal of Hydrology</i> , 2021, 598, 126281.	5.4	8
67	Coastal sand barrier hydrology " observations from the BARDEX II prototype-scale laboratory experiment. <i>Journal of Coastal Research</i> , 2013, 165, 1886-1891.	0.3	7
68	Unprecedented High Northern Australian Streamflow Linked to an Intensification of the Indo-Australian Monsoon. <i>Water Resources Research</i> , 2022, 58, .	4.2	7
69	Experimental observation of increased apparent dispersion and mixing in a beach aquifer due to wave forcing. <i>Advances in Water Resources</i> , 2018, 119, 245-256.	3.8	5
70	Investigation of the thermal regime and subsurface properties of a tidally affected, variably saturated streambed. <i>Hydrological Processes</i> , 2017, 31, 2541-2555.	2.6	4
71	An investigation of the spatial and temporal variability of the saline interface in a sandy aquifer subject to storm wave runoff and rainfall recharge. <i>Hydrogeology Journal</i> , 2020, 28, 1695-1719.	2.1	1