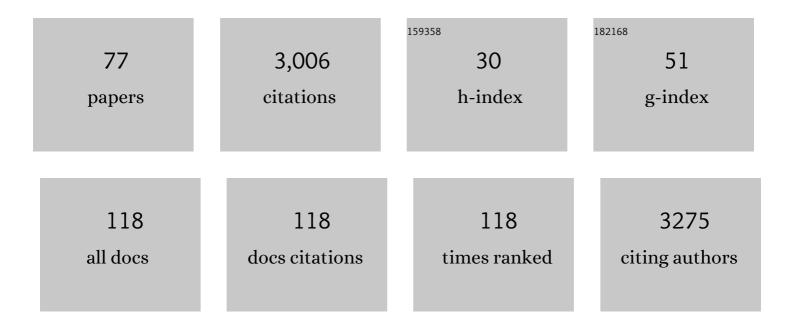
Mark Cuthbert

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/823415/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Global climate-driven trade-offs between the water retention and cooling benefits of urban greening. Nature Communications, 2022, 13, 518.	5.8	39
2	The importance of non-stationary multiannual periodicities in the North Atlantic Oscillation index for forecasting water resource drought. Hydrology and Earth System Sciences, 2022, 26, 2449-2467.	1.9	3
3	Understanding process controls on groundwater recharge variability across Africa through recharge landscapes. Journal of Hydrology, 2022, 612, 127967.	2.3	6
4	Runoff and focused groundwater-recharge response to flooding rains in the arid zone of Australia. Hydrogeology Journal, 2021, 29, 737-764.	0.9	11
5	Quantifying temporal variability and spatial heterogeneity in rainfall recharge thresholds in a montane karst environment. Journal of Hydrology, 2021, 594, 125965.	2.3	9
6	Nonâ€stationary control of the <scp>NAO</scp> on European rainfall and its implications for water resource management. Hydrological Processes, 2021, 35, e14099.	1.1	9
7	Exploring the role of hydrological pathways in modulating multi-annual climate teleconnection periodicities from UK rainfall to streamflow. Hydrology and Earth System Sciences, 2021, 25, 2223-2237.	1.9	11
8	Drought onset and propagation into soil moisture and grassland vegetation responses during the 2012–2019Âmajor drought in Southern California. Hydrology and Earth System Sciences, 2021, 25, 3713-3729.	1.9	25
9	Hourly potential evapotranspiration at 0.1° resolution for the global land surface from 1981-present. Scientific Data, 2021, 8, 224.	2.4	59
10	Hydro-geomechanical characterisation of a coastal urban aquifer using multiscalar time and frequency domain groundwater-level responses. Hydrogeology Journal, 2021, 29, 2751-2771.	0.9	3
11	The influence of groundwater abstraction on interpreting climate controls and extreme recharge events from well hydrographs in semi-arid South Africa. Hydrogeology Journal, 2021, 29, 2773-2787.	0.9	10
12	Focused groundwater recharge in a tropical dryland: Empirical evidence from central, semi-arid Tanzania. Journal of Hydrology: Regional Studies, 2021, 37, 100919.	1.0	10
13	DRYP 1.0: a parsimonious hydrological model of DRYland Partitioning of the water balance. Geoscientific Model Development, 2021, 14, 6893-6917.	1.3	14
14	Importance of the Micro-scale for the Macro-scale—What Can We Learn From Groundwater Ecosystems?. , 2021, , .		0
15	GMD perspective: The quest to improve the evaluation of groundwater representation in continental- to global-scale models. Geoscientific Model Development, 2021, 14, 7545-7571.	1.3	38
16	Modern speleothem oxygen isotope hydroclimate records in water-limited SE Australia. Geochimica Et Cosmochimica Acta, 2020, 270, 431-448.	1.6	10
17	Future-proofing hydrogeology by revising groundwater monitoring practice. Hydrogeology Journal, 2020, 28, 2963-2969.	0.9	14
18	Rethinking groundwater age. Nature Geoscience, 2020, 13, 592-594.	5.4	21

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19	Rainfall recharge thresholds in a subtropical climate determined using a regional cave drip water monitoring network. Journal of Hydrology, 2020, 587, 125001.	2.3	19
20	Characterising groundwater–surface water interactions in idealised ephemeral stream systems. Hydrological Processes, 2020, 34, 3792-3806.	1.1	27
21	Global Groundwater Sustainability, Resources, and Systems in the Anthropocene. Annual Review of Earth and Planetary Sciences, 2020, 48, 431-463.	4.6	161
22	Climate–groundwater dynamics inferred from GRACE and the role of hydraulic memory. Earth System Dynamics, 2020, 11, 775-791.	2.7	22
23	Technical note: Disentangling the groundwater response to Earth and atmospheric tides to improve subsurface characterisation. Hydrology and Earth System Sciences, 2020, 24, 6033-6046.	1.9	14
24	Observed controls on resilience of groundwater to climate variability in sub-Saharan Africa. Nature, 2019, 572, 230-234.	13.7	168
25	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. Nature Communications, 2019, 10, 2984.	5.8	81
26	Understanding the potential of climate teleconnections to project future groundwater drought. Hydrology and Earth System Sciences, 2019, 23, 3233-3245.	1.9	37
27	Global patterns and dynamics of climate–groundwater interactions. Nature Climate Change, 2019, 9, 137-141.	8.1	244
28	TheÂEl Niño event of 2015–2016: climate anomalies and their impact on groundwater resources in East and Southern Africa. Hydrology and Earth System Sciences, 2019, 23, 1751-1762.	1.9	52
29	20,000 years of societal vulnerability and adaptation to climate change in southwest Asia. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1330.	2.8	30
30	A conceptual model for climatic teleconnection signal control on groundwater variability in Europe. Earth-Science Reviews, 2018, 177, 164-174.	4.0	31
31	The Influence of Syndepositional Macropores on the Hydraulic Integrity of Thick Alluvial Clay Aquitards. Water Resources Research, 2018, 54, 3122-3138.	1.7	8
32	Quantifying Compressible Groundwater Storage by Combining Crossâ€Hole Seismic Surveys and Head Response to Atmospheric Tides. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1910-1930.	1.0	19
33	Modelling the role of groundwater hydro-refugia in East African hominin evolution and dispersal. Nature Communications, 2017, 8, 15696.	5.8	47
34	Towards an integrated understanding of how micro scale processes shape groundwater ecosystem functions. Science of the Total Environment, 2017, 592, 215-227.	3.9	30
35	Characterising the dynamics of surface water-groundwater interactions in intermittent and ephemeral streams using streambed thermal signatures. Advances in Water Resources, 2017, 107, 354-369.	1.7	37
36	Solar-forced diurnal regulation of cave drip rates via phreatophyte evapotranspiration. Hydrology and Earth System Sciences, 2016, 20, 4439-4455.	1.9	9

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37	An objective frequency domain method for quantifying confined aquifer compressible storage using Earth and atmospheric tides. Geophysical Research Letters, 2016, 43, 11,671.	1.5	30
38	Highway deicing salt dynamic runoff to surface water and subsequent infiltration to groundwater during severe UK winters. Science of the Total Environment, 2016, 565, 324-338.	3.9	62
39	Understanding and quantifying focused, indirect groundwater recharge from ephemeral streams using water table fluctuations. Water Resources Research, 2016, 52, 827-840.	1.7	61
40	An irrigation experiment to compare soil, water and speleothem tetraether membrane lipid distributions. Organic Geochemistry, 2016, 94, 12-20.	0.9	11
41	Long-term spatio-temporal precipitation variability in arid-zone Australia and implications for groundwater recharge. Hydrogeology Journal, 2016, 24, 905-921.	0.9	23
42	Semi-arid zone caves: Evaporation and hydrological controls on δ180 drip water composition and implications for speleothem paleoclimate reconstructions. Quaternary Science Reviews, 2016, 131, 285-301.	1.4	40
43	Comparisons of observed and modelled lake δ180 variability. Quaternary Science Reviews, 2016, 131, 329-340.	1.4	34
44	Assessing the accuracy of 1â€D analytical heat tracing for estimating nearâ€surface sediment thermal diffusivity and water flux under transient conditions. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1551-1573.	1.0	34
45	Technical Note: The use of an interrupted-flow centrifugation method to characterise preferential flow in low permeability media. Hydrology and Earth System Sciences, 2015, 19, 3991-4000.	1.9	5
46	Organic characterisation of cave drip water by LC-OCD and fluorescence analysis. Geochimica Et Cosmochimica Acta, 2015, 166, 15-28.	1.6	23
47	Controls on cave drip water temperature and implications for speleothem-based paleoclimate reconstructions. Quaternary Science Reviews, 2015, 127, 19-36.	1.4	31
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49	A Spring Forward for Hominin Evolution in East Africa. PLoS ONE, 2014, 9, e107358.	1.1	36
50	Straight thinking about groundwater recession. Water Resources Research, 2014, 50, 2407-2424.	1.7	40
51	Local thermal non-equilibrium in sediments: Implications for temperature dynamics and the use of heat as a tracer. Advances in Water Resources, 2014, 73, 176-184.	1.7	19
52	Drip water isotopes in semi-arid karst: Implications for speleothem paleoclimatology. Earth and Planetary Science Letters, 2014, 395, 194-204.	1.8	66
53	Dripwater organic matter and trace element geochemistry in a semi-arid karst environment: Implications for speleothem paleoclimatology. Geochimica Et Cosmochimica Acta, 2014, 135, 217-230.	1.6	61
	Understanding process dynamics at aquifer-surface water interfaces: An introduction to the special		

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55	Transport of Sporosarcina pasteurii in sandstone and its significance for subsurface engineering technologies. Applied Geochemistry, 2014, 42, 38-44.	1.4	40
56	Bacterially Produced Calcium Phosphate Nanobiominerals: Sorption Capacity, Site Preferences, and Stability of Captured Radionuclides. Environmental Science & Technology, 2014, 48, 6891-6898.	4.6	43
57	Evaporative cooling of speleothem drip water. Scientific Reports, 2014, 4, 5162.	1.6	29
58	Kinetics of urease mediated calcite precipitation and permeability reduction of porous media evidenced by magnetic resonance imaging. International Journal of Environmental Science and Technology, 2013, 10, 881-890.	1.8	27
59	A Field and Modeling Study of Fractured Rock Permeability Reduction Using Microbially Induced Calcite Precipitation. Environmental Science & Technology, 2013, 47, 13637-13643.	4.6	178
60	Impacts of nonuniform flow on estimates of vertical streambed flux. Water Resources Research, 2013, 49, 19-28.	1.7	46
61	Linking soil moisture balance and source-responsive models to estimate diffuse and preferential components of groundwater recharge. Hydrology and Earth System Sciences, 2013, 17, 1003-1019.	1.9	30
62	Kinetics of urease mediated calcite precipitation and permeability reduction of porous media evidenced by magnetic resonance imaging. International Journal of Environmental Science and Technology, 2013, 10, 881-890.	1.8	5
63	The legacy of chlorinated solvents in the Birmingham aquifer, UK: Observations spanning three decades and the challenge of future urban groundwater development. Journal of Contaminant Hydrology, 2012, 140-141, 107-123.	1.6	26
64	Controls on the rate of ureolysis and the morphology of carbonate precipitated by S. Pasteurii biofilms and limits due to bacterial encapsulation. Ecological Engineering, 2012, 41, 32-40.	1.6	94
65	Towards best practice for assessing the impacts of climate change on groundwater. Hydrogeology Journal, 2012, 20, 1-4.	0.9	99
66	Comparison of rates of ureolysis between Sporosarcina pasteurii and an indigenous groundwater community under conditions required to precipitate large volumes of calcite. Geochimica Et Cosmochimica Acta, 2011, 75, 3290-3301.	1.6	152
67	A Wet/Wet Differential Pressure Sensor for Measuring Vertical Hydraulic Gradient. Ground Water, 2011, 49, 781-782.	0.7	2
68	The importance of preferential flow in controlling groundwater recharge in tropical Africa and implications for modelling the impact of climate change on groundwater resources. Journal of Water and Climate Change, 2010, 1, 234-245.	1.2	28
69	An inexpensive flow-through laser nephelometer for the detection of natural colloids and manufactured nanoparticles. Journal of Hydrology, 2010, 388, 112-120.	2.3	6
70	Combining unsaturated and saturated hydraulic observations to understand and estimate groundwater recharge through glacial till. Journal of Hydrology, 2010, 391, 263-276.	2.3	31
71	Impacts of river bed gas on the hydraulic and thermal dynamics of the hyporheic zone. Advances in Water Resources, 2010, 33, 1347-1358.	1.7	38
72	An improved time series approach for estimating groundwater recharge from groundwater level fluctuations. Water Resources Research, 2010, 46, .	1.7	70

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73	Reply to Discussion of â€ [~] The use of electrical resistivity tomography in deriving local-scale models of recharge through superficial deposits', by M.O. Cuthbert, R. MacKay, J.H. Tellam, R.D. Barker, Quarterly Journal of Engineering Geology and Hydrogeology, 42, 199–209, by M.G. Shepley & K.J. Voyce. Quarterly lournal of Engineering Geology and Hydrogeology, 2010, 43, 364-364.	0.8	1
74	The use of electrical resistivity tomography in deriving local-scale models of recharge through superficial deposits. Quarterly Journal of Engineering Geology and Hydrogeology, 2009, 42, 199-209.	0.8	28
75	The design and application of an inexpensive pressure monitoring system for shallow water level measurement, tensiometry and piezometry. Journal of Hydrology, 2009, 373, 416-425.	2.3	19
76	Trends in arsenic concentration at tubewells in Bangladesh: conceptual models, numerical models, and monitoring proxies. Trace Metals and Other Contaminants in the Environment, 2007, 9, 63-83.	0.1	3
77	Constraints on sustainable development of arsenic-bearing aquifers in southern Bangladesh. Part 2: Preliminary models of arsenic variability in pumped groundwater. Geological Society Special Publication, 2002, 193, 165-179.	0.8	9