Scott Jasechko

List of Publications by Year
in descending order

40	5,047	31	40
papers	citations	h-index	g-index
		147801	289244
42	42	42	5972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Widespread and increased drilling of wells into fossil aquifers in the USA. Nature Communications, 2022, 13, 2129.	12.8	14
2	Widespread potential loss of streamflow into underlying aquifers across the USA. Nature, 2021, 591, 391-395.	27.8	54
3	Global groundwater wells at risk of running dry. Science, 2021, 372, 418-421.	12.6	133
4	Risk of groundwater contamination widely underestimated because of fast flow into aquifers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	53
5	Meltwaters dominate groundwater recharge in cold arid desert of Upper Indus River Basin (UIRB), western Himalayas. Science of the Total Environment, 2021, 786, 147514.	8.0	38
6	Groundwater level observations in 250,000 coastal US wells reveal scope of potential seawater intrusion. Nature Communications, 2020, 11, 3229.	12.8	79
7	Base of fresh water, groundwater salinity, and well distribution across California. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32302-32307.	7.1	13
8	California's Central Valley Groundwater Wells Run Dry During Recent Drought. Earth's Future, 2020, 8, e2019EF001339.	6.3	40
9	Deeper well drilling an unsustainable stopgap to groundwater depletion. Nature Sustainability, 2019, 2, 773-782.	23.7	64
10	Global sinusoidal seasonality in precipitation isotopes. Hydrology and Earth System Sciences, 2019, 23, 3423-3436.	4.9	29
11	Uncertainties in tritium mass balance models for groundwater recharge estimation. Journal of Hydrology, 2019, 571, 150-158.	5.4	37
12	Global Isotope Hydrogeologyâ€•Review. Reviews of Geophysics, 2019, 57, 835-965.	23.0	165
13	Formation waters discharge to rivers near oil sands projects. Hydrological Processes, 2018, 32, 533-549.	2.6	4
14	Watershed services in the humid tropics: Opportunities from recent advances in ecohydrology. Ecohydrology, 2018, 11, e1921.	2.4	32
15	Competition for shrinking window of low salinity groundwater. Environmental Research Letters, 2018, 13, 114013.	5.2	37
16	Plants turn on the tap. Nature Climate Change, 2018, 8, 562-563.	18.8	18
17	Indigenous communities, groundwater opportunities. Science, 2018, 361, 453-455.	12.6	10
18	The Persistence of Brines in Sedimentary Basins. Geophysical Research Letters, 2018, 45, 4851-4858.	4.0	54

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19	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. Nature Geoscience, 2017, 10, 425-429.	12.9	210
20	The rapid yet uneven turnover of Earth's groundwater. Geophysical Research Letters, 2017, 44, 5511-5520.	4.0	27
21	Isotopic evidence for widespread coldâ€seasonâ€biased groundwater recharge and young streamflow across central Canada. Hydrological Processes, 2017, 31, 2196-2209.	2.6	65
22	Revisiting the contribution of transpiration to global terrestrial evapotranspiration. Geophysical Research Letters, 2017, 44, 2792-2801.	4.0	308
23	Hydraulic fracturing near domestic groundwater wells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13138-13143.	7.1	53
24	Dry groundwater wells in the western United States. Environmental Research Letters, 2017, 12, 104002.	5.2	72
25	Lateâ€Pleistocene precipitation Î´¹⁸O interpolated across the global landmass. Geochemistry, Geophysics, Geosystems, 2016, 17, 3274-3288.	2.5	17
26	Substantial proportion of global streamflow less than three monthsÂold. Nature Geoscience, 2016, 9, 126-129.	12.9	252
27	The global volume and distribution of modernÂgroundwater. Nature Geoscience, 2016, 9, 161-167.	12.9	450
28	Partitioning young and old groundwater with geochemical tracers. Chemical Geology, 2016, 427, 35-42.	3.3	59
29	The isotopic composition of the Laurentide Ice Sheet and fossil groundwater. Geophysical Research Letters, 2015, 42, 4856-4861.	4.0	51
30	Intensive rainfall recharges tropical groundwaters. Environmental Research Letters, 2015, 10, 124015.	5.2	114
31	Late-glacial to late-Holocene shifts in global precipitation Î´¹⁸O. Climate of the Past, 2015, 11, 1375-1393.	3.4	57
32	Global separation of plant transpiration from groundwater and streamflow. Nature, 2015, 525, 91-94.	27.8	377
33	Jasechko et al. reply. Nature, 2014, 506, E2-E3.	27.8	7
34	The pronounced seasonality of global groundwater recharge. Water Resources Research, 2014, 50, 8845-8867.	4.2	246
35	Transpiration in the global water cycle. Agricultural and Forest Meteorology, 2014, 189-190, 115-117.	4.8	642
36	Stable isotope mass balance of the Laurentian Great Lakes. Journal of Great Lakes Research, 2014, 40, 336-346.	1.9	65

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37	Evidence of discharging saline formation water to the Athabasca River in the oil sands mining region, northern Alberta. Canadian Journal of Earth Sciences, 2013, 50, 1244-1257.	1.3	56
38	Terrestrial water fluxes dominated by transpiration. Nature, 2013, 496, 347-350.	27.8	966
39	Quantifying saline groundwater seepage to surface waters in the Athabasca oil sands region. Applied Geochemistry, 2012, 27, 2068-2076.	3.0	45
40	Divergent hydrological responses to 20th century climate change in shallow tundra ponds, western Hudson Bay Lowlands. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	32