

Scott Jasechko

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

3,343
citations

24
h-index

42
g-index

42
ext. papers

4,168
ext. citations

13.8
avg, IF

6.19
L-index

#	Paper	IF	Citations
40	Terrestrial water fluxes dominated by transpiration. <i>Nature</i> , 2013 , 496, 347-50	50.4	704
39	Transpiration in the global water cycle. <i>Agricultural and Forest Meteorology</i> , 2014 , 189-190, 115-117	5.8	454
38	The global volume and distribution of modern groundwater. <i>Nature Geoscience</i> , 2016 , 9, 161-167	18.3	312
37	Global separation of plant transpiration from groundwater and streamflow. <i>Nature</i> , 2015 , 525, 91-4	50.4	277
36	Revisiting the contribution of transpiration to global terrestrial evapotranspiration. <i>Geophysical Research Letters</i> , 2017 , 44, 2792-2801	4.9	196
35	Substantial proportion of global streamflow less than three months old. <i>Nature Geoscience</i> , 2016 , 9, 126-129	18.3	183
34	The pronounced seasonality of global groundwater recharge. <i>Water Resources Research</i> , 2014 , 50, 8845-8867	9.1	169
33	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. <i>Nature Geoscience</i> , 2017 , 10, 425-429	18.3	134
32	Intensive rainfall recharges tropical groundwaters. <i>Environmental Research Letters</i> , 2015 , 10, 124015	6.2	84
31	Global Isotope Hydrogeology Review. <i>Reviews of Geophysics</i> , 2019 , 57, 835-965	23.1	71
30	Dry groundwater wells in the western United States. <i>Environmental Research Letters</i> , 2017 , 12, 104002	6.2	53
29	Evidence of discharging saline formation water to the Athabasca River in the oil sands mining region, northern Alberta. <i>Canadian Journal of Earth Sciences</i> , 2013 , 50, 1244-1257	1.5	48
28	Stable isotope mass balance of the Laurentian Great Lakes. <i>Journal of Great Lakes Research</i> , 2014 , 40, 336-346	3	47
27	Isotopic evidence for widespread cold-season-biased groundwater recharge and young streamflow across central Canada. <i>Hydrological Processes</i> , 2017 , 31, 2196-2209	3.3	45
26	Late-glacial to late-Holocene shifts in global precipitation ¹⁸O. <i>Climate of the Past</i> , 2015 , 11, 1375-1393	3.9	45
25	Global groundwater wells at risk of running dry. <i>Science</i> , 2021 , 372, 418-421	33.3	44
24	Partitioning young and old groundwater with geochemical tracers. <i>Chemical Geology</i> , 2016 , 427, 35-42	4.2	40

23	Deeper well drilling an unsustainable stopgap to groundwater depletion. <i>Nature Sustainability</i> , 2019 , 2, 773-782	22.1	38
22	The Persistence of Brines in Sedimentary Basins. <i>Geophysical Research Letters</i> , 2018 , 45, 4851-4858	4.9	36
21	Quantifying saline groundwater seepage to surface waters in the Athabasca oil sands region. <i>Applied Geochemistry</i> , 2012 , 27, 2068-2076	3.5	33
20	Groundwater level observations in 250,000 coastal US wells reveal scope of potential seawater intrusion. <i>Nature Communications</i> , 2020 , 11, 3229	17.4	31
19	Hydraulic fracturing near domestic groundwater wells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13138-13143	11.5	30
18	Competition for shrinking window of low salinity groundwater. <i>Environmental Research Letters</i> , 2018 , 13, 114013	6.2	27
17	The isotopic composition of the Laurentide Ice Sheet and fossil groundwater. <i>Geophysical Research Letters</i> , 2015 , 42, 4856-4861	4.9	25
16	Divergent hydrological responses to 20th century climate change in shallow tundra ponds, western Hudson Bay Lowlands. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	24
15	Uncertainties in tritium mass balance models for groundwater recharge estimation. <i>Journal of Hydrology</i> , 2019 , 571, 150-158	6	23
14	The rapid yet uneven turnover of Earth's groundwater. <i>Geophysical Research Letters</i> , 2017 , 44, 5511-5520	4.9	21
13	Widespread potential loss of streamflow into underlying aquifers across the USA. <i>Nature</i> , 2021 , 591, 391-395	50.4	20
12	California's Central Valley Groundwater Wells Run Dry During Recent Drought. <i>Earth's Future</i> , 2020 , 8, e2019EF001339	7.9	19
11	Watershed services in the humid tropics: Opportunities from recent advances in ecohydrology. <i>Ecohydrology</i> , 2018 , 11, e1921	2.5	19
10	Global sinusoidal seasonality in precipitation isotopes. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 3423-3436	5.5	16
9	Risk of groundwater contamination widely underestimated because of fast flow into aquifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
8	Late-Pleistocene precipitation $\delta^{18}O$ interpolated across the global landmass. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 3274-3288	3.6	13
7	Meltwaters dominate groundwater recharge in cold arid desert of Upper Indus River Basin (UIRB), western Himalayas. <i>Science of the Total Environment</i> , 2021 , 786, 147514	10.2	11
6	Indigenous communities, groundwater opportunities. <i>Science</i> , 2018 , 361, 453-455	33.3	10

5	Jasechko et al. reply. <i>Nature</i> , 2014 , 506, E2-3	50.4	7
4	Base of fresh water, groundwater salinity, and well distribution across California. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32302-32307	11.5	4
3	Formation waters discharge to rivers near oil sands projects. <i>Hydrological Processes</i> , 2018 , 32, 533-549	3.3	3
2	Global sinusoidal seasonality in precipitation isotopes		2
1	Widespread and increased drilling of wells into fossil aquifers in the USA.. <i>Nature Communications</i> , 2022 , 13, 2129	17.4	1