Grant A G Ferguson

List of Publications by Year
in descending order

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71 papers	3,598 citations	159585 30 h-index	138484 58 g-index
82 all docs	82 docs citations	82 times ranked	3906 citing authors

#	Article	IF	Citations
1	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
2	Vulnerability of coastal aquifers to groundwater use and climate change. Nature Climate Change, 2012, 2, 342-345.	18.8	454
3	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. Nature Geoscience, 2017, 10, 425-429.	12.9	210
4	Sustainability and policy for the thermal use of shallow geothermal energy. Energy Policy, 2013, 59, 914-925.	8.8	201
5	Evolution of shallow groundwater flow systems in areas of degrading permafrost. Geophysical Research Letters, 2009, 36, .	4.0	169
6	Global Groundwater Sustainability, Resources, and Systems in the Anthropocene. Annual Review of Earth and Planetary Sciences, 2020, 48, 431-463.	11.0	161
7	Hydrogeological processes in seasonally frozen northern latitudes: understanding, gaps and challenges. Hydrogeology Journal, 2013, 21, 53-66.	2.1	144
8	Urban heat island in the subsurface. Geophysical Research Letters, 2007, 34, .	4.0	133
9	The geothermal potential of urban heat islands. Environmental Research Letters, 2010, 5, 044002.	5.2	125
10	Permafrost degradation as a control on hydrogeological regime shifts in a warming climate. Journal of Geophysical Research, 2012, 117, .	3.3	113
11	Subsurface heat flow in an urban environment. Journal of Geophysical Research, 2004, 109, .	3.3	106
12	Where Is the Bottom of a Watershed?. Water Resources Research, 2020, 56, e2019WR026010.	4.2	65
13	Heterogeneity and Thermal Modeling of Ground Water. Ground Water, 2007, 45, 485-490.	1.3	60
14	Uncertainty in 1D Heat-Flow Analysis to Estimate Groundwater Discharge to a Stream. Ground Water, 2011, 49, 336-347.	1.3	56
15	The Persistence of Brines in Sedimentary Basins. Geophysical Research Letters, 2018, 45, 4851-4858.	4.0	54
16	The isotopic composition of the Laurentide Ice Sheet and fossil groundwater. Geophysical Research Letters, 2015, 42, 4856-4861.	4.0	51
17	The Effects of Climatic Variability on Estimates of Recharge from Temperature Profiles. Ground Water, 2005, 43, 837-842.	1.3	50
18	Observed thermal pollution and post-development simulations of low-temperature geothermal systems in Winnipeg, Canada. Hydrogeology Journal, 2006, 14, 1206-1215.	2.1	49

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19	Long-term tracking of climate change by underground temperatures. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	44
20	The hidden crisis beneath our feet. Science, 2021, 372, 344-345.	12.6	43
21	Hydrogeology of the Winnipeg Formation in Manitoba, Canada. Hydrogeology Journal, 2007, 15, 573-587.	2.1	41
22	Estimating Deep Recharge Rates Beneath an Interlobate Moraine Using Temperature Logs. Ground Water, 2003, 41, 640-646.	1.3	38
23	Perturbation of ground surface temperature reconstructions by groundwater flow?. Geophysical Research Letters, 2006, 33, .	4.0	37
24	Competition for shrinking window of low salinity groundwater. Environmental Research Letters, 2018, 13, 114013.	5.2	37
25	Satellite-Derived Subsurface Urban Heat Island. Environmental Science & Technology, 2014, 48, 12134-12140.	10.0	36
26	Deep Injection of Waste Water in the Western Canada Sedimentary Basin. Ground Water, 2015, 53, 187-194.	1.3	36
27	Transient lateral heat flow due to land-use changes. Earth and Planetary Science Letters, 2006, 242, 217-222.	4.4	35
28	HISTORICAL AND ESTIMATED GROUND WATER LEVELS NEAR WINNIPEG, CANADA, AND THEIR SENSITIVITY TO CLIMATIC VARIABILITY. Journal of the American Water Resources Association, 2003, 39, 1249-1259.	2.4	34
29	What do aqueous geothermometers really tell us?. Geofluids, 2009, 9, 39-48.	0.7	34
30	Thermal sustainability of groundwater-source cooling in Winnipeg, Manitoba. Canadian Geotechnical Journal, 2005, 42, 1290-1301.	2.8	33
31	Application of an Analytical Solution as a Screening Tool for Sea Water Intrusion. Ground Water, 2016, 54, 709-718.	1.3	31
32	The geothermal potential of urban heat islands. Environmental Research Letters, 2011, 6, 019501.	5.2	28
33	Unfinished Business in Geothermal Energy. Ground Water, 2009, 47, 167-167.	1.3	26
34	Crustal Groundwater Volumes Greater Than Previously Thought. Geophysical Research Letters, 2021, 48, e2021GL093549.	4.0	24
35	Thermal springs and heat flow in North America. Geofluids, 2011, 11, 294-301.	0.7	22
36	Deep groundwater circulation and associated methane leakage in the northern Canadian Rocky Mountains. Applied Geochemistry, 2016, 68, 10-18.	3.0	21

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37	Conventional Oilâ€"The Forgotten Part of the Waterâ€Energy Nexus. Ground Water, 2019, 57, 669-677.	1.3	21
38	Rethinking groundwater age. Nature Geoscience, 2020, 13, 592-594.	12.9	21
39	Deep Meteoric Water Circulation in Earth's Crust. Geophysical Research Letters, 2021, 48, e2020GL090461.	4.0	20
40	Screening for Heat Transport by Groundwater in Closed Geothermal Systems. Ground Water, 2015, 53, 503-506.	1.3	19
41	Teaching hydrogeology: a review of current practice. Hydrology and Earth System Sciences, 2012, 16, 2159-2168.	4.9	17
42	Characterization of the hydraulic conductivity of glacial till aquitards. Hydrogeology Journal, 2020, 28, 1827-1839.	2.1	17
43	Elevated Ba concentrations in a sandstone aquifer. Journal of Hydrology, 2009, 376, 126-131.	5.4	16
44	Characterizing uncertainty in groundwater-source heating and cooling projects in Manitoba, Canada. Energy, 2012, 37, 201-206.	8.8	16
45	Synthesis of science: findings on Canadian Prairie wetland drainage. Canadian Water Resources Journal, 2021, 46, 229-241.	1.2	15
46	The geothermal potential of the basal clastics of Saskatchewan, Canada. Hydrogeology Journal, 2014, 22, 143-150.	2.1	13
47	Prairie water: a global water futures project to enhance the resilience of prairie communities through sustainable water management. Canadian Water Resources Journal, 2019, 44, 115-126.	1.2	12
48	Determining the role of diffusion and basement flux in controlling 4He distribution in sedimentary basin fluids. Earth and Planetary Science Letters, 2021, 574, 117175.	4.4	11
49	Ground surface paleotemperature reconstruction using information measures and empirical Bayes. Geophysical Research Letters, 2006, 33, .	4.0	10
50	Potential use of particle tracking in the analysis of low-temperature geothermal developments. Geothermics, 2006, 35, 44-58.	3.4	10
51	Using Thermal Springs to Quantify Deep Groundwater Flow and Its Thermal Footprint in the Alps and a Comparison With North American Orogens. Geophysical Research Letters, 2020, 47, e2020GL090134.	4.0	10
52	Geothermal energy potential of the Western Canada Sedimentary Basin: Clues from coproduced and injected water. Environmental Geosciences, 2017, 24, 113-121.	0.6	9
53	Subsurface energy footprints. Environmental Research Letters, 2013, 8, 014037.	5.2	8
54	Preface: Hydrogeology of shallow thermal systems. Hydrogeology Journal, 2014, 22, 1-6.	2.1	8

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55	A geochemical and isotopic assessment of hydraulic connectivity of a stacked aquifer system in the Lisbon Valley, Utah (USA), and critical evaluation of environmental tracers. Hydrogeology Journal, 2021, 29, 1905-1923.	2.1	8
56	Hydrogeochemical evolution of formation waters responsible for sandstone bleaching and ore mineralization in the Paradox Basin, Colorado Plateau, USA. Bulletin of the Geological Society of America, 2022, 134, 2589-2610.	3.3	8
57	Changes in Deep Groundwater Flow Patterns Related to Oil and Gas Activities. Ground Water, 2022, 60, 47-63.	1.3	7
58	Kryptonâ€81 Dating Constrains Timing of Deep Groundwater Flow Activation. Geophysical Research Letters, 2022, 49, .	4.0	6
59	Seismic induced flow disruption of Gandll K'in Gwaay.yaay thermal springs, Gwaii Haanas National Park Reserve, Canada. Applied Geochemistry, 2019, 103, 118-130.	3.0	5
60	Deep Groundwater Circulation through Gas Shales in Mountain Belts. Procedia Earth and Planetary Science, 2017, 17, 532-533.	0.6	4
61	Hydrogeology of the Judith River Formation in southwestern Saskatchewan, Canada. Hydrogeology Journal, 2017, 25, 1985-1995.	2.1	4
62	Variability in Timing and Transport of Pleistocene Meltwater Recharge to Regional Aquifers. Geophysical Research Letters, 2021, 48, .	4.0	4
63	â€œBorehole temperatures, climate change and pre-observational surface air temperature mean: Allowance for hydraulic conditionsâ€•by Louise Bodri and Vladimir Cermak. Global and Planetary Change, 2005, 48, 313-314.	3.5	3
64	Reply to 'Threats to coastal aquifers'. Nature Climate Change, 2013, 3, 605-606.	18.8	3
65	Insights into contaminant transport from unconventional oil and gas developments from analog system analysis of methane-bearing thermal springs in the northern Canadian Rocky Mountains. Hydrogeology Journal, 2018, 26, 481-493.	2.1	3
66	Salt dissolution and permeability in the Western Canada Sedimentary Basin. Hydrogeology Journal, 2019, 27, 161-170.	2.1	3
67	Comment on â€œGroundwater Pumping Is a Significant Unrecognized Contributor to Global Anthropogenic Element Cyclesâ€• Ground Water, 2019, 57, 82-82.	1.3	2
68	Heat transfer within frozen slopes in subarctic Yukon, Canada. Environmental Geotechnics, 2019, 6, 420-429.	2.3	2
69	Commingled Fluids in Abandoned Boreholes: Proximity Analysis of a Hidden Liability. Ground Water, 2022, 60, 210-224.	1.3	2
70	Evaluation of strontium isotope tracers of produced water sources from multiple stacked reservoirs in Appalachian, Williston and Permian basins. Journal of Geochemical Exploration, 2022, 232, 106887.	3.2	1
71	Introduction: Why Study Global Groundwater?. , 2021, , xxxvii-xxxix.		0