Garry Clarke

List of Publications by Year
in descending order

62 papers	2,726 citations	201674 27 h-index	175258 52 g-index
62 all docs	62 docs citations	62 times ranked	1567 citing authors

#	Article	IF	Citations
1	Flow, thermal structure, and subglacial conditions of a surge-type glacier. Canadian Journal of Earth Sciences, 1984, 21, 232-240.	1.3	261
2	Glacier Outburst Floods From â€œHazard Lakeâ€, Yukon Territory, and the Problem of Flood Magnitude Prediction. Journal of Glaciology, 1982, 28, 3-21.	2.2	205
3	Projected deglaciation of western Canada in the twenty-first century. Nature Geoscience, 2015, 8, 372-377.	12.9	184
4	Strain heating and creep instability in glaciers and ice sheets. Reviews of Geophysics, 1977, 15, 235-247.	23.0	143
5	Glacier Outburst Floods From â€œHazard Lakeâ€, Yukon Territory, and the Problem of Flood Magnitude Prediction. Journal of Glaciology, 1982, 28, 3-21.	2.2	140
6	A multicomponent coupled model of glacier hydrology 1. Theory and synthetic examples. Journal of Geophysical Research, 2002, 107, ECV 9-1-ECV 9-17.	3.3	128
7	Ploughing of subglacial sediment. Journal of Glaciology, 1994, 40, 97-106.	2.2	119
8	Black-box modeling of the subglacial water system. Journal of Geophysical Research, 1995, 100, 10231-10245.	3.3	116
9	Tools for examining subglacial bed deformation. Journal of Glaciology, 1992, 38, 388-396.	2.2	96
10	Stickâ€"slip sliding behaviour at the base of a glacier. Annals of Glaciology, 1997, 24, 390-396.	1.4	94
11	Cordilleran Ice Sheet mass loss preceded climate reversals near the Pleistocene Termination. Science, 2017, 358, 781-784.	12.6	74
12	Ice Volume and Subglacial Topography for Western Canadian Glaciers from Mass Balance Fields, Thinning Rates, and a Bed Stress Model. Journal of Climate, 2013, 26, 4282-4303.	3.2	70
13	Outburst Floods from Glacial Lake Missoula. Quaternary Research, 1984, 22, 289-299.	1.7	69
14	Slow surge of Trapridge Glacier, Yukon Territory, Canada. Journal of Geophysical Research, 2007, 112, .	3.3	67
15	Lumped-element analysis of subglacial hydraulic circuits. Journal of Geophysical Research, 1996, 101, 17547-17559.	3.3	58
16	A three-dimensional theory of wind pumping. Journal of Glaciology, 1991, 37, 89-96.	2.2	57
17	TIMEâ€VARYING DECONVOLUTION FILTERS. Geophysics, 1968, 33, 936-944.	2.6	55
18	OPTIMUM SECONDâ€DERIVATIVE AND DOWNWARDâ€CONTINUATION FILTERS. Geophysics, 1969, 34, 424-437.	2.6	54

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19	IN SITU MEASUREMENTS OF BASAL WATER QUALITY AND PRESSURE AS AN INDICATOR OF THE CHARACTER OF SUBGLACIAL DRAINAGE SYSTEMS. Hydrological Processes, 1996, 10, 615-628.	2.6	54
20	A multicomponent coupled model of glacier hydrology 2. Application to Trapridge Glacier, Yukon, Canada. Journal of Geophysical Research, 2002, 107, ECV 10-1-ECV 10-16.	3.3	53
21	Thermal Effects of Crevassing on Steele Glacier, Yukon Territory, Canada. Journal of Glaciology, 1974, 13, 243-254.	2.2	50
22	Surface and bed topography of Trapridge Glacier, Yukon Territory, Canada: digital elevation models and derived hydraulic geometry. Journal of Glaciology, 1999, 45, 165-174.	2.2	43
23	Radio Echo Soundings and Ice-Temperature Measurements in a Surge-Type Glacier. Journal of Glaciology, 1975, 14, 71-78.	2.2	41
24	Length, width and slope influences on glacier surging. Journal of Glaciology, 1991, 37, 236-246.	2.2	39
25	Length, width and slope influences on glacier surging. Journal of Glaciology, 1991, 37, 236-246.	2.2	34
26	Subglacial measurement of turbidity and electrical conductivity. Journal of Glaciology, 1993, 39, 415-420.	2.2	33
27	The Thermal Regime of Trapridge Glacier and its Relevance to Glacier Surging. Journal of Glaciology, 1975, 14, 235-250.	2.2	31
28	Hydraulic properties of subglacial sediment determined from the mechanical response of water-filled boreholes. Journal of Glaciology, 1995, 41, 112-124.	2.2	29
29	Basal Hot Spot on a Surge Type Glacier. Nature, 1971, 229, 481-483.	27.8	27
30	Radio Soundings On Trapridge Glacier, Yukon Territory,Canada. Journal of Glaciology, 1975, 14, 79-84.	2.2	27
31	Surface and bed topography of Trapridge Glacier, Yukon Territory, Canada: digital elevation models and derived hydraulic geometry. Journal of Glaciology, 1999, 45, 165-174.	2.2	22
32	Airborne UHF Radio Echo-Sounding of Three Yukon Glaciers. Journal of Glaciology, 1980, 25, 23-32.	2.2	19
33	Inversion of borehole-response test data for estimation of subglacial hydraulic properties. Journal of Glaciology, 1997, 43, 103-113.	2.2	19
34	Ploughing of subglacial sediment. Journal of Glaciology, 1994, 40, 97-106.	2.2	18
35	Radio Echo Soundings and Ice-Temperature Measurements in a Surge-Type Glacier. Journal of Glaciology, 1975, 14, 71-78.	2.2	17
36	An integrated modelling approach to understanding subglacial hydraulic release events. Annals of Glaciology, 2000, 31, 222-228.	1.4	17

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37	Thermal Effects of Crevassing on Steele Glacier, Yukon Territory, Canada. Journal of Glaciology, 1974, 13, 243-254.	2.2	16
38	Clast collision frequency as an indicator of glacier sliding rate. Journal of Glaciology, 1997, 43, 460-466.	2.2	15
39	Gravity Measurements on â€œFox Glacierâ€, Yukon Territory, Canada. Journal of Glaciology, 1970, 9, 363-374.	2.2	14
40	The Thermal Regime of Trapridge Glacier and its Relevance to Glacier Surging. Journal of Glaciology, 1975, 14, 235-250.	2.2	14
41	Airborne UHF Radio Echo-Sounding of Three Yukon Glaciers. Journal of Glaciology, 1980, 25, 23-32.	2.2	14
42	A three-dimensional theory of wind pumping. Journal of Glaciology, 1991, 37, 89-96.	2.2	11
43	Stable-isotope pattern predicted in surge-type glaciers. Canadian Journal of Earth Sciences, 1988, 25, 657-668.	1.3	10
44	Sensitivity tests of coupled ice-sheet/ice-stream dynamics in the EISMINT experimental ice block. Annals of Glaciology, 1996, 23, 336-347.	1.4	9
45	Tools for examining subglacial bed deformation. Journal of Glaciology, 1992, 38, 388-396.	2.2	9
46	Interpretation of borehole-inclinometer data: a general theory applied to a new instrument. Journal of Glaciology, 1992, 38, 113-124.	2.2	8
47	Lumped-element model for subglacial transport of solute and suspended sediment. Annals of Glaciology, 1996, 22, 152-159.	1.4	8
48	Structural Evolution During Cyclic Glacier Surges: 1. Structural Glaciology of Trapridge Glacier, Yukon, Canada. Journal of Geophysical Research F: Earth Surface, 2019, 124, 464-494.	2.8	8
49	Structural Evolution During Cyclic Glacier Surges: 2. Numerical Modeling. Journal of Geophysical Research F: Earth Surface, 2019, 124, 495-525.	2.8	7
50	Subglacial measurement of turbidity and electrical conductivity. Journal of Glaciology, 1993, 39, 415-420.	2.2	4
51	Evidence for temporally varying â€œsticky spotsâ€•at the base of Trapridge Glacier, Yukon Territory, Canada. Journal of Glaciology, 1999, 45, 352-360.	2.2	4
52	Inversion of borehole-response test data for estimation of subglacial hydraulic properties. Journal of Glaciology, 1997, 43, 103-113.	2.2	3
53	Interpretation of borehole-inclinometer data: a general theory applied to a new instrument. Journal of Glaciology, 1992, 38, 113-124.	2.2	2
54	Gravity Measurements on â€œFox Glacierâ€, Yukon Territory, Canada. Journal of Glaciology, 1970, 9, 363-374.	2.2	2

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55	Predictive Filtering and Smoothing of Short Records by using Maximum Entropy. Geophysical Journal International, 1973, 35, 380-380.	2.4	1
56	Multiple flow states for ice masses. Journal of Glaciology, 1980, 25, 355-356.	2.2	1
57	Hydraulic properties of subglacial sediment determined from the mechanical response of water-filled boreholes. Journal of Glaciology, 1995, 41, 112-124.	2.2	1
58	Lumped-element model for subglacial transport of solute and suspended sediment. Annals of Glaciology, 1996, 22, 152-159.	1.4	1
59	Sensitivity tests of coupled ice-sheet/ice-stream dynamics in the EISMINT experimental ice block. Annals of Glaciology, 1996, 23, 336-347.	1.4	1
60	â€œFox Glacierâ€•in Yukon Territory is now Rusty Glacier. Journal of Glaciology, 1972, 11, 456-457.	2.2	0
61	â€œFox Glacierâ€•in Yukon Territory is now Rusty Glacier. Journal of Glaciology, 1972, 11, 456-457.	2.2	0
62	Multiple flow states for ice masses. Journal of Glaciology, 1980, 25, 355-356.	2.2	0