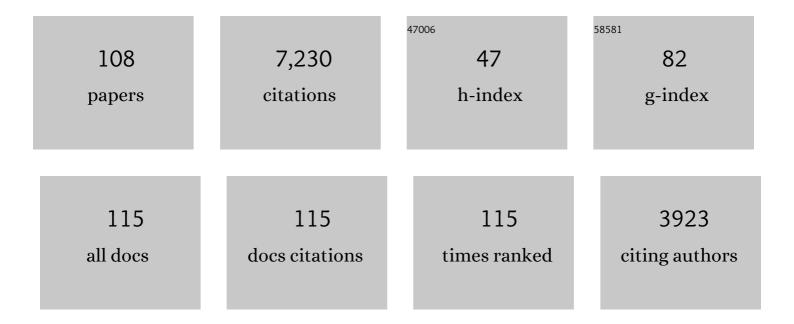
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fluvial processes and landforms. Geological Society Memoir, 2022, 58, 257-270.	1.7	5
2	Limits to scale invariance in alluvial rivers. Earth Surface Processes and Landforms, 2021, 46, 173-187.	2.5	6
3	Roughness Calibration to Improve Flow Predictions in Coarseâ€Bed Streams. Water Resources Research, 2021, 57, e2021WR029979.	4.2	4
4	Flow resistance and hydraulic geometry in bedrock rivers with multiple roughness length scales. Earth Surface Processes and Landforms, 2019, 44, 2437-2449.	2.5	19
5	Erosion of organic carbon from the Andes and its effects on ecosystem carbon dioxide balance. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 449-469.	3.0	28
6	Flow resistance and hydraulic geometry in contrasting reaches of a bedrock channel. Water Resources Research, 2017, 53, 2278-2293.	4.2	20
7	Bed load tracer mobility in a mixed bedrock/alluvial channel. Journal of Geophysical Research F: Earth Surface, 2017, 122, 807-822.	2.8	41
8	Advance, Retreat, and Halt of Abrupt Gravelâ€ S and Transitions in Alluvial Rivers. Geophysical Research Letters, 2017, 44, 9751-9760.	4.0	49
9	The cause of advective slowdown of tracer pebbles in rivers: Implementation of Exnerâ€Based Master Equation for coevolving streamwise and vertical dispersion. Journal of Geophysical Research F: Earth Surface, 2016, 121, 623-637.	2.8	48
10	Reconstructing a sediment pulse: Modeling the effect of placer mining on Fraser River, Canada. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1436-1454.	2.8	74
11	Morphodynamics: Rivers beyond steady state. Water Resources Research, 2015, 51, 1883-1897.	4.2	153
12	Splitting rivers at their seams: bifurcations and avulsion. Earth Surface Processes and Landforms, 2013, 38, 47-61.	2.5	204
13	River channel slope, flow resistance, and gravel entrainment thresholds. Water Resources Research, 2012, 48, .	4.2	96
14	Evolution of an advancing gravel front: observations from Vedder Canal, British Columbia. Earth Surface Processes and Landforms, 2011, 36, 1172-1182.	2.5	46
15	Implications of climate change in the twentyâ€first century for simulated magnitude and frequency of bedâ€material transport in tributaries of the Saintâ€Lawrence River. Hydrological Processes, 2011, 25, 1558-1573.	2.6	19
16	A coupled sediment routing and lateral migration model for gravelâ€bed rivers. Hydrological Processes, 2011, 25, 1887-1898.	2.6	2
17	Numerical modelling of climate change impacts on Saintâ€Lawrence River tributaries. Earth Surface Processes and Landforms, 2010, 35, 1184-1198.	2.5	21
18	Time to abandon the Manning equation?. Earth Surface Processes and Landforms, 2010, 35, 1873-1876.	2.5	98

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19	Using sediment impact sensors to improve the morphological sediment budget approach for estimating bedload transport rates. Geomorphology, 2010, 119, 125-134.	2.6	34
20	The spatial and temporal patterns of aggradation in a temperate, upland, gravelâ€bed river. Earth Surface Processes and Landforms, 2009, 34, 1181-1197.	2.5	34
21	A critical perspective on 1â€D modeling of river processes: Gravel load and aggradation in lower Fraser River. Water Resources Research, 2009, 45, .	4.2	50
22	A modified morphodynamic model for investigating the response of rivers to short-term climate change. Geomorphology, 2008, 101, 674-682.	2.6	38
23	2 Gravel-bed rivers at the reach scale. Developments in Earth Surface Processes, 2007, , 33-53.	2.8	10
24	Emergence of coherent flow structures over a gravel surface: A numerical experiment. Water Resources Research, 2007, 43, .	4.2	49
25	Estimating shear stress from moving boat acoustic Doppler velocity measurements in a large gravel bed river. Water Resources Research, 2007, 43, .	4.2	69
26	Flow resistance equations for gravel- and boulder-bed streams. Water Resources Research, 2007, 43, .	4.2	326
27	Tributary control of physical heterogeneity and biological diversity at river confluences. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 2553-2566.	1.4	110
28	River system discontinuities due to lateral inputs: generic styles and controls. Earth Surface Processes and Landforms, 2006, 31, 1149-1166.	2.5	87
29	Modelling Reach-Scale Fluvial Flows. , 2005, , 215-269.		15
30	Numerical Modelling of Floodplain Flow. , 2005, , 271-304.		8
31	Towards Risk-Based Prediction in Real-World Applications of Complex Hydraulic Models. , 2005, , 461-486.		0
32	CFD for Environmental Design and Management. , 2005, , 487-509.		0
33	Introduction to Numerical Methods for Fluid Flow. , 2005, , 147-168.		4
34	A Framework for Model Verification and Validation of CFD Schemes in Natural Open Channel Flows. , 2005, , 169-192.		21
35	Parameterisation, Validation and Uncertainty Analysis of CFD Models of Fluvial and Flood Hydraulics in the Natural Environment. , 2005, , 193-213.		11
36	Modelling Water Quality Processes in Estuaries. , 2005, , 305-328.		8

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37	Introduction to Statistical Turbulence Modelling for Hydraulic Engineering Flows. , 2005, , 91-120.		9
38	Modelling Solute Transport Processes in Free Surface Flow CFD Schemes. , 2005, , 51-69.		1
39	Fundamental Equations for CFD in River Flow Simulations. , 2005, , 17-49.		3
40	Basic Equations for Sediment Transport in CFD for Fluvial Morphodynamics. , 2005, , 71-89.		38
41	Modelling of Sand Deposition in Archaeologically Significant Reaches of the Colorado River in Grand Canyon, USA. , 2005, , 357-394.		4
42	The theoretical foundations and potential for large-eddy simulation (LES) in fluvial geomorphic and sedimentological research. Earth-Science Reviews, 2005, 71, 271-304.	9.1	70
43	Computational Fluid Dynamics Modelling for Environmental Hydraulics. , 2005, , 1-15.		8
44	Roughness Parameterization in CFD Modelling of Gravel-Bed Rivers. , 2005, , 329-355.		9
45	Modelling Wetting and Drying Processes in Hydraulic Models. , 2005, , 121-146.		8
46	Modelling of Open Channel Flow through Vegetation. , 2005, , 395-428.		24
47	Ecohydraulics: A New Interdisciplinary Frontier for CFD. , 2005, , 429-460.		10
48	A Simple Universal Equation for Grain Settling Velocity. Journal of Sedimentary Research, 2004, 74, 933-937.	1.6	383
49	Numerical modelling of airflow over an idealised transverse dune. Environmental Modelling and Software, 2004, 19, 153-162.	4.5	80
50	Publication practices in physical and human geography: a comment on Nigel Thrift's †The future of geography'. Geoforum, 2003, 34, 9-11.	2.5	22
51	Assessing the credibility of a series of computational fluid dynamic simulations of open channel flow. Hydrological Processes, 2003, 17, 1539-1560.	2.6	58
52	Flow in meander bends with recirculation at the inner bank. Water Resources Research, 2003, 39, .	4.2	202
53	The missing dimension: effects of lateral variation on 1-D calculations of fluvial bedload transport. Geomorphology, 2003, 56, 1-14.	2.6	133
54	Emergence of abrupt gravel to sand transitions along rivers through sorting processes. Geology, 2003, 31, 159.	4.4	83

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55	Mobility of river tracer pebbles over different timescales. Water Resources Research, 2002, 38, 3-1-3-8.	4.2	112
56	Long-term slowdown of river tracer pebbles: Generic models and implications for interpreting short-term tracer studies. Water Resources Research, 2002, 38, 17-1-17-11.	4.2	76
57	Velocity and flow resistance in step-pool streams. Geomorphology, 2002, 46, 59-71.	2.6	160
58	Fluvial aggradation in Vedder River: Testing a one-dimensional sedimentation model. Water Resources Research, 2001, 37, 3331-3347.	4.2	33
59	Verification of simulated snow cover in an Arctic basin using satellite-derived snow-cover maps. Annals of Glaciology, 2000, 31, 391-396.	1.4	3
60	Fluvial suspended sediment transport from cold and warm-based glaciers in Svalbard. Earth Surface Processes and Landforms, 1999, 24, 957-974.	2.5	82
61	Use of remote sensing to test and update simulated snow cover in hydrological models. Hydrological Processes, 1999, 13, 2067-2077.	2.6	18
62	Snowmelt runoff models. Progress in Physical Geography, 1999, 23, 205-227.	3.2	79
63	Numerical modelling of separated flow in river bends: model testing and experimental investigation of geometric controls on the extent of flow separation at the concave bank. Hydrological Processes, 1998, 12, 1323-1338.	2.6	101
64	The Scientific Nature of Geomorphology. Applied Geography, 1998, 18, 99.	3.7	17
65	Tracer-pebble movement along a concave river profile: Virtual velocity in relation to grain size and shear stress. Water Resources Research, 1998, 34, 2031-2038.	4.2	135
66	Numerical modelling of separated flow in river bends: model testing and experimental investigation of geometric controls on the extent of flow separation at the concave bank. Hydrological Processes, 1998, 12, 1323-1338.	2.6	2
67	Measuring and defining bimodal sediments: Problems and implications. Water Resources Research, 1997, 33, 1179-1185.	4.2	53
68	Controls of strength and rate of downstream fining above a river base level. Water Resources Research, 1997, 33, 2601-2608.	4.2	63
69	Bias and precision of percentiles of bulk grain size distributions. Earth Surface Processes and Landforms, 1997, 22, 1061-1077.	2.5	48
70	The gravel-sand transition: flume study of channel response to reduced slope. Geomorphology, 1996, 16, 147-159.	2.6	56
71	Field evidence for rapid downstream fining of river gravels through selective transport. Geology, 1996, 24, 179.	4.4	181
72	Turbulent flow structure in a gravel-bed river: Markov chain analysis of the fluctuating velocity profile. Earth Surface Processes and Landforms, 1995, 20, 721-733.	2.5	38

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73	Unequal Mobility of Gravel and Sand in Weakly Bimodal River Sediments. Water Resources Research, 1995, 31, 2087-2096.	4.2	135
74	Ten year remeasurement of chemical denudation on a magnesian limestone hillslope. Earth Surface Processes and Landforms, 1994, 19, 109-114.	2.5	14
75	Critical discharge for entrainment of poorly sorted gravel. Earth Surface Processes and Landforms, 1994, 19, 179-186.	2.5	76
76	Excel modelling of hydrological systems. Earth Surface Processes and Landforms, 1994, 19, 815-817.	2.5	0
77	Numerical simulation of downstream fining by selective transport in gravel bed rivers: Model development and illustration. Water Resources Research, 1994, 30, 2251-2260.	4.2	261
78	Computer simulation in physical geography(2nd edn). Applied Geography, 1994, 14, 285.	3.7	1
79	Understanding braiding processes in gravel-bed rivers: progress and unsolved problems. Geological Society Special Publication, 1993, 75, 73-87.	1.3	76
80	Measurements in a Braided River chute and lobe: 1. Flow pattern, sediment transport, and channel change. Water Resources Research, 1992, 28, 1877-1886.	4.2	114
81	Measurements in a Braided River chute and lobe: 2. Sorting of bed load during entrainment, transport, and deposition. Water Resources Research, 1992, 28, 1887-1896.	4.2	108
82	Secondary flow in anabranch confluences of a braided, gravel-bed stream. Earth Surface Processes and Landforms, 1992, 17, 299-311.	2.5	142
83	Slope-induced changes in channel character along a gravel-bed stream: The Allt Dubhaig, Scotland. Earth Surface Processes and Landforms, 1991, 16, 65-82.	2.5	106
84	Quantifying gravel deposition on river bars using flexible netting. Journal of Sedimentary Research, 1989, 59, 623-624.	1.6	6
85	Sizeâ€selective entrainment of bed load in gravel bed streams. Water Resources Research, 1989, 25, 627-634.	4.2	288
86	Influence of sand on hydraulics and gravel transport in a braided gravel bed river. Water Resources Research, 1989, 25, 635-643.	4.2	118
87	Slope failures in the Ochil Hills, Scotland, November 1984. Earth Surface Processes and Landforms, 1988, 13, 69-76.	2.5	19
88	Reply [to "Comment on â€~River loads underestimated by rating curves' by R. I. Fergusonâ€]. Water Resources Research, 1988, 24, 1220-1220.	4.2	0
89	Forestry effects on suspended sediment and bedload yields in the Balquhidder catchments, Central Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1987, 78, 379-384.	0.7	19
90	Snowmelt modelling in the Cairngorms, NE Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1987, 78, 261-267.	0.7	8

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91	Accuracy and precision of methods for estimating river loads. Earth Surface Processes and Landforms, 1987, 12, 95-104.	2.5	236
92	Hydraulics and hydraulic geometry. Progress in Physical Geography, 1986, 10, 1-31.	3.2	231
93	River Loads Underestimated by Rating Curves. Water Resources Research, 1986, 22, 74-76.	4.2	622
94	Reply [to "Comment on â€~River loads underestimated by rating curves' by R. I. Fergusonâ€]. Water Resources Research, 1986, 22, 2123-2124.	4.2	9
95	Interrelationships of Channel Processes, Changes and Sediments in a Proglacial Braided River. Geografiska Annaler, Series A: Physical Geography, 1986, 68, 361.	1.5	77
96	HIGH DENSITIES, WATER EQUIVALENTS, AND MELT RATES OF SNOW IN THE CAIRNGORM MOUNTAINS, SCOTLAND. Weather, 1985, 40, 272-277.	0.7	17
97	Runoff from glacierized mountains: A model for annual variation and its forecasting. Water Resources Research, 1985, 21, 702-708.	4.2	11
98	Discussion of " <i>Channel Migration and Incision on The Beatton River</i> ―by Gerald C. Nanson and Edward J. Hickin (March, 1983). Journal of Hydraulic Engineering, 1984, 110, 1682-1683.	1.5	0
99	Magnitude and modelling of snowmelt runoff in the Cairngorm mountains, Scotland. Hydrological Sciences Journal, 1984, 29, 49-62.	2.6	42
100	Topologic Asymmetry of Drainage Networks: The L Index and Its Applications. Journal of Geology, 1980, 88, 457-465.	1.4	2
101	Stream network volume: An index of channel morphometry: Discussion and reply. Bulletin of the Geological Society of America, 1979, 90, 606.	3.3	2
102	Meander sinuosity and direction variance. Bulletin of the Geological Society of America, 1977, 88, 212.	3.3	23
103	On determining distances through stream networks. Water Resources Research, 1977, 13, 672-674.	4.2	7
104	Disturbed periodic model for river meanders. Earth Surfaces Processes, 1976, 1, 337-347.	0.7	42
105	Markov Models in Geography. Journal of the Royal Statistical Society: Series D (the Statistician), 1974, 23, 179.	0.2	12
106	Regular meander path models. Water Resources Research, 1973, 9, 1079-1086.	4.2	26
107	Sinuosity of Supraglacial Streams. Bulletin of the Geological Society of America, 1973, 84, 251.	3.3	65
108	Testing Numerical Models in Geomorphology: How can we Ensure Critical Use of Model Predictions?. Geophysical Monograph Series, 0, , 241-256.	0.1	9