

Paul A Carling

List of Publications by Year in descending order

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89
papers

3,561
citations

168829

31
h-index

169272

56
g-index

104
all docs

104
docs citations

104
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluvial palaeohydrology in the 21st century and beyond. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 58-81.	1.2	16
2	Global Late Quaternary Megafloods. , 2022, , 832-840.		0
3	Hydro-climatic Characteristics of Yarlung Zangbo River Basin since the Last Glacial Maximum. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 415-426.	1.9	2
4	Fitting limit lines (envelope curves) to spreads of geoenvironmental data. <i>Progress in Physical Geography</i> , 2022, 46, 272-290.	1.4	0
5	Save the Mekong Delta from drowning. <i>Science</i> , 2022, 376, 583-585.	6.0	30
6	An automatic graph-based method for characterizing multichannel networks. <i>Computers and Geosciences</i> , 2022, 166, 105180.	2.0	2
7	A wetland oasis at Wadi Gharandal spanning 125â€“70 ka on the human migration trail in southern Jordan. <i>Quaternary Research</i> , 2021, 100, 154-169.	1.0	7
8	Catastrophic Drainage From the Northwestern Outlet of Glacial Lake Agassiz During the Younger Dryas. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093919.	1.5	11
9	Assessment of local outburst flood risk from successive landslides: Case study of Baige landslide-dammed lake, upper Jinsha river, eastern Tibet. <i>Journal of Hydrology</i> , 2021, 599, 126294.	2.3	27
10	Channelâ€“Form Adjustment of an Alluvial River Under Hydrodynamic and Ecoâ€“Geomorphologic Controls: Insights From Applying Equilibrium Theory Governing Alluvial Channel Flow. <i>Water Resources Research</i> , 2021, 57, e2020WR029174.	1.7	3
11	Altai megafloodsâ€“The temporal context. <i>Earth-Science Reviews</i> , 2020, 200, 102995.	4.0	23
12	Quantifying Fluid Retention Due to Natural Vegetation in a Forest Floodplain Analogue Using the Aggregated Dead Zone (ADZ) Dilution Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR027070.	1.7	7
13	Frequency of boulders transport during large floods in hyperarid areas using paleoflood analysis â€“ An example from the Negev Desert, Israel. <i>Earth-Science Reviews</i> , 2020, 202, 103086.	4.0	19
14	Particle comminution defines megaflood and superflood energetics. <i>Earth-Science Reviews</i> , 2020, 204, 103087.	4.0	13
15	Flash-flood hydrology and aquifer-recharge in Wadi Umm Sidr, Eastern Desert, Egypt. <i>Journal of Arid Environments</i> , 2020, 178, 104170.	1.2	8
16	Hydraulic control on the development of megaflood runup deposits. <i>Geomorphology</i> , 2020, 361, 107203.	1.1	4
17	Alluvial stratification styles in a large, flashâ€“flood influenced dryland river: The Luni River, Thar Desert, northâ€“west India. <i>Sedimentology</i> , 2019, 66, 102-128.	1.6	19
18	Flow structure in large bedrockâ€“channels: The example of macroturbulent rapids, lower Mekong River, Southeast Asia. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 843-860.	1.2	7

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19	Martian gullies and their Earth analogues: introduction. Geological Society Special Publication, 2019, 467, 1-6.	0.8	5
20	Dynamic adjustments in bankfull width of a braided reach. Water Management, 2019, 172, 207-216.	0.4	11
21	Changing sediment budget of the Mekong: Cumulative threats and management strategies for a large river basin. Science of the Total Environment, 2018, 625, 114-134.	3.9	182
22	Storm-wave development of shore-normal grooves (gutters) on a steep sandstone beach face. Estuarine, Coastal and Shelf Science, 2018, 207, 312-324.	0.9	2
23	The bubble bursts for cavitation in natural rivers: laboratory experiments reveal minor role in bedrock erosion. Earth Surface Processes and Landforms, 2017, 42, 1308-1316.	1.2	34
24	Comment on Gribenski, N. et al., 2016. Complex patterns of glacier advances during the late glacial in the Chagan Uzun Valley, Russian Altai. Quaternary Science Reviews 149, 288-305. Quaternary Science Reviews, 2017, 168, 216-219.	1.4	5
25	Sedimentation of overbank floods in the confined complex channel-floodplain system of the Lower Yellow River, China. Hydrological Processes, 2017, 31, 3472-3488.	1.1	9
26	Ground-penetrating radar stratigraphy and dynamics of megaflood gravel dunes. Journal of the Geological Society, 2016, 173, 550-559.	0.9	16
27	Anticipated geomorphic impacts from Mekong basin dam construction. International Journal of River Basin Management, 2015, 13, 105-121.	1.5	33
28	Coupled flood and sediment transport modelling with adaptive mesh refinement. Science China Technological Sciences, 2015, 58, 1425-1438.	2.0	18
29	Streamlined Island. , 2015, , 2066-2069.		0
30	Coupled 2D hydrodynamic and sediment transport modeling of megaflood due to glacier dam-break in Altai Mountains, Southern Siberia. Journal of Mountain Science, 2014, 11, 1442-1453.	0.8	21
31	Multichannel rivers: their definition and classification. Earth Surface Processes and Landforms, 2014, 39, 26-37.	1.2	110
32	One-dimensional modeling of a recent Ganga avulsion: Assessing the potential effect of tectonic subsidence on a large river. Geomorphology, 2014, 213, 24-37.	1.1	55
33	Factors controlling the temporal variability in dissolved oxygen regime of salmon spawning gravels. Hydrological Processes, 2014, 28, 86-103.	1.1	31
34	Streamlined Island. , 2014, , 1-5.		0
35	Freshwater megaflood sedimentation: What can we learn about generic processes?. Earth-Science Reviews, 2013, 125, 87-113.	4.0	111
36	Initial Motion of Boulders in Bedrock Channels. Water Science and Application, 2013, , 147-160.	0.3	8

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37	Discussion of "Field evidence and hydraulic modeling of a large Holocene jökulhlaup at Jökulsárlón channel, Iceland" by Douglas Howard, Sheryl Luzzadder-Beach and Timothy Beach, 2012. <i>Geomorphology</i> , 2013, 201, 512-519.	1.1	13
38	Decadal length changes in the fluvial planform of the River Ganga: bringing a mega-river to life with Landsat archives. <i>Remote Sensing Letters</i> , 2013, 4, 1-9.	0.6	52
39	Land degradation and spatial vulnerabilities: a study of inter-village differences in Chambal Valley, India. <i>Asian Geographer</i> , 2013, 30, 65-79.	0.4	29
40	Discrimination of alluvial and mixed bedrock "alluvial multichannel river networks. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1299-1316.	1.2	33
41	Subaqueous "eyardangs": Analogs for aeolian yardang evolution. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 276-287.	1.0	7
42	The geomorphological characteristics of the Mekong River in northern Cambodia: A mixed bedrock "alluvial multi-channel network. <i>Geomorphology</i> , 2012, 147-148, 2-17.	1.1	34
43	Modelling the bulk flow of a bedrock "constrained, multi "channel reach of the Mekong River, Siphandone, southern Laos. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 533-545.	1.2	9
44	The occurrence of obtuse junction angles and changes in channel width below tributaries along the Mekong River, south "east Asia. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1563-1576.	1.2	30
45	Palaeoshorelines of glacial Lake Kuray "Chuja, south-central Siberia: form, sediments and process. <i>Geological Society Special Publication</i> , 2011, 354, 111-128.	0.8	16
46	Repeated glacial-lake outburst floods in Patagonia: an increasing hazard?. <i>Natural Hazards</i> , 2010, 54, 469-481.	1.6	146
47	A physically based model to predict hydraulic erosion of fine "grained riverbanks: The role of form roughness in limiting erosion. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
48	Unsteady 1D and 2D hydraulic models with ice dam break for Quaternary megaflood, Altai Mountains, southern Siberia. <i>Global and Planetary Change</i> , 2010, 70, 24-34.	1.6	92
49	Channel-scale erosional bedforms in bedrock and in loose granular material: character, processes and implications. , 2009, , 13-32.		15
50	Floods from natural rock-material dams. , 2009, , 128-171.		43
51	The Geology of the Lower Mekong River. , 2009, , 13-28.		19
52	Geomorphology and Sedimentology of the Lower Mekong River. , 2009, , 77-111.		20
53	Overview of megaflooding: Earth and Mars. , 2009, , 1-12.		14
54	Field investigation of ridge "runnel dynamics on an intertidal mudflat. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 213-229.	0.9	34

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55	A review of factors influencing the availability of dissolved oxygen to incubating salmonid embryos. <i>Hydrological Processes</i> , 2007, 21, 323-334.	1.1	134
56	A field-based assessment of oxygen supply to incubating Atlantic salmon (<i>Salmo salar</i>) embryos. <i>Hydrological Processes</i> , 2007, 21, 3087-3100.	1.1	34
57	Dynamics of intertidal gravel dunes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	11
58	Hydro-climatic and land use changes in the River Lune catchment, North West England, implications for catchment management. <i>River Research and Applications</i> , 2006, 22, 239-255.	0.7	49
59	A new method to determine interstitial flow patterns in flume studies of sub-aqueous gravel bedforms such as fish nests. <i>River Research and Applications</i> , 2006, 22, 691-701.	0.7	23
60	Pointwise and Upwind Discretizations of Source Terms in Open-Channel Flood Routing. <i>Journal of Hydrodynamics</i> , 2006, 18, 379-386.	1.3	2
61	Hydraulic model calibration for extreme floods in bedrock-confined channels: case study from northern Thailand. <i>Hydrological Processes</i> , 2006, 20, 329-344.	1.1	31
62	Power-law extreme flood frequency. <i>Geological Society Special Publication</i> , 2006, 261, 141-153.	0.8	6
63	Impact of clay particles on the cutaneous exchange of oxygen across the chorion of Atlantic salmon eggs. <i>Journal of Fish Biology</i> , 2005, 66, 1681-1691.	0.7	58
64	Further perspectives on the evolution of bed material waves in alluvial rivers. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 115-120.	1.2	3
65	Refinement and application of a conductimetric standpipe technique for measuring interstitial flow velocity in salmonid spawning gravels. <i>Hydrobiologia</i> , 2005, 545, 249-256.	1.0	8
66	A flume experiment on the development of subaqueous fine-gravel dunes from a lower-stage plane bed. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	19
67	Computational Dam-Break Hydraulics over Erodible Sediment Bed. <i>Journal of Hydraulic Engineering</i> , 2004, 130, 689-703.	0.7	288
68	Flow reversal over a natural pool-riffle sequence: a computational study. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 689-705.	1.2	60
69	On evolution of bed material waves in alluvial rivers. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 437-441.	1.2	20
70	Manning'sn Expert Panel experiment: an invitation. <i>Hydrological Processes</i> , 2003, 17, 1469-1469.	1.1	0
71	Role of suspended-sediment particle size in modifying velocity profiles in open channel flows. <i>Water Resources Research</i> , 2003, 39, .	1.7	53
72	Velocity and Turbulence Measurements for Two Overbank Flow Events in River Severn. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 891-900.	0.7	59

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73	Mathematical modelling of alluvial rivers: reality and myth. Part 1: General review. Proceedings of the Institution of Civil Engineers Water and Maritime Engineering, 2002, 154, 207-219.	0.3	50
74	Turbulent flow across a natural compound channel. Water Resources Research, 2002, 38, 6-1-6-11.	1.7	47
75	A consideration of the dune:antidune transition in fine gravel. Sedimentology, 2002, 49, 1269-1282.	1.6	51
76	Reducing sediment inputs to Scottish streams: a review of the efficacy of soil conservation practices in upland forestry. Science of the Total Environment, 2001, 265, 209-227.	3.9	37
77	Morphology of riffle-pool sequences in the River Severn, England. Earth Surface Processes and Landforms, 2000, 25, 369-384.	1.2	107
78	Subaqueous gravel dunes. Journal of Sedimentary Research, 1999, 69, 534-545.	0.8	143
79	Coarse bedload transport in a mountain river. Earth Surface Processes and Landforms, 1998, 23, 141-157.	1.2	16
80	The erodibility of upland soils and the design of preafforestation drainage networks in the United Kingdom. Hydrological Processes, 1997, 11, 1963-1980.	1.1	19
81	Morphology, sedimentology and palaeohydraulic significance of large gravel dunes, Altai Mountains, Siberia. Sedimentology, 1996, 43, 647-664.	1.6	108
82	Simulation of flow over pool-riffle topography: A consideration of the velocity reversal hypothesis. Earth Surface Processes and Landforms, 1994, 19, 319-332.	1.2	82
83	Indirect estimation of ungauged peak discharges in a bedrock channel with reference to design discharge selection. Hydrological Processes, 1994, 8, 497-511.	1.1	28
84	Soil erosion and conservation on land cultivated and drained for afforestation. Hydrological Processes, 1993, 7, 317-333.	1.1	9
85	Design of stable drainage networks in upland forestry plantations. Hydrological Processes, 1993, 7, 335-347.	1.1	3
86	Bedload transport in two gravel-bedded streams. Earth Surface Processes and Landforms, 1989, 14, 27-39.	1.2	28
87	Observations on siting, dimensions and structure of salmonid redds. Journal of Fish Biology, 1989, 34, 119-134.	0.7	270
88	An improved conductimetric standpipe technique for measuring interstitial seepage velocities. Hydrobiologia, 1986, 135, 3-8.	1.0	7
89	Observations on the structure of brown trout, <i>Salmo trutta</i> Linnaeus, redds. Journal of Fish Biology, 1981, 19, 593-607.	0.7	114