

Philip Ashworth

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,397
citations

109321

35
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

2391
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-selective entrainment of bed load in gravel bed streams. <i>Water Resources Research</i> , 1989, 25, 627-634.	4.2	288
2	Morphological evolution and dynamics of a large, sand braid-bar, Jamuna River, Bangladesh. <i>Sedimentology</i> , 2000, 47, 533-555.	3.1	232
3	Scour in large braided rivers and the recognition of sequence stratigraphic boundaries. <i>Nature</i> , 1997, 387, 275-277.	27.8	225
4	Three-Dimensional Sedimentary Architecture of a Large, Mid-Channel Sand Braid Bar, Jamuna River, Bangladesh. <i>Journal of Sedimentary Research</i> , 2003, 73, 516-530.	1.6	222
5	The sedimentology and alluvial architecture of the sandy braided South Saskatchewan River, Canada. <i>Sedimentology</i> , 2006, 53, 413-434.	3.1	178
6	MID-CHANNEL BAR GROWTH AND ITS RELATIONSHIP TO LOCAL FLOW STRENGTH AND DIRECTION. <i>Earth Surface Processes and Landforms</i> , 1996, 21, 103-123.	2.5	169
7	Meander-Bend Evolution, Alluvial Architecture, and the Role of Cohesion in Sinuous River Channels: A Flume Study. <i>Journal of Sedimentary Research</i> , 2007, 77, 197-212.	1.6	165
8	Virtual rate and mean distance of travel of individual clasts in gravel-bed channels. <i>Earth Surface Processes and Landforms</i> , 1992, 17, 617-627.	2.5	163
9	Sediment slugs: large-scale fluctuations in fluvial sediment transport rates and storage volumes. <i>Progress in Physical Geography</i> , 1995, 19, 500-519.	3.2	152
10	Secondary flow in anabranch confluences of a braided, gravel-bed stream. <i>Earth Surface Processes and Landforms</i> , 1992, 17, 299-311.	2.5	142
11	How do big rivers come to be different?. <i>Earth-Science Reviews</i> , 2012, 114, 84-107.	9.1	142
12	The negative relief of large river floodplains. <i>Earth-Science Reviews</i> , 2014, 129, 1-23.	9.1	125
13	Influence of sand on hydraulics and gravel transport in a braided gravel bed river. <i>Water Resources Research</i> , 1989, 25, 635-643.	4.2	118
14	Measurements in a Braided River chute and lobe: 1. Flow pattern, sediment transport, and channel change. <i>Water Resources Research</i> , 1992, 28, 1877-1886.	4.2	114
15	Measurements in a Braided River chute and lobe: 2. Sorting of bed load during entrainment, transport, and deposition. <i>Water Resources Research</i> , 1992, 28, 1887-1896.	4.2	108
16	Slope-induced changes in channel character along a gravel-bed stream: The Allt Dubhaig, Scotland. <i>Earth Surface Processes and Landforms</i> , 1991, 16, 65-82.	2.5	106
17	Relationship between sediment supply and avulsion frequency in braided rivers. <i>Geology</i> , 2004, 32, 21.	4.4	100
18	Evolution and sedimentology of a channel fill in the sandy braided South Saskatchewan River and its comparison to the deposits of an adjacent compound bar. <i>Sedimentology</i> , 2011, 58, 1860-1883.	3.1	99

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19	Quantification of braided river channel change using archival digital image analysis. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 971-985.	2.5	94
20	Numerical simulation of bar and island morphodynamics in anabranching megarivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2019-2044.	2.8	88
21	Defining large river channel patterns: Alluvial exchange and plurality. <i>Geomorphology</i> , 2014, 215, 83-98.	2.6	85
22	Tributary, distributary and other fluvial patterns: What really represents the norm in the continental rock record?. <i>Sedimentary Geology</i> , 2012, 261-262, 15-32.	2.1	81
23	Interrelationships of Channel Processes, Changes and Sediments in a Proglacial Braided River. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1986, 68, 361.	1.5	77
24	The Sedimentology and Alluvial Architecture of a Large Braid Bar, Rio Parana, Argentina. <i>Journal of Sedimentary Research</i> , 2009, 79, 629-642.	1.6	64
25	Spatial Pattern of Flow Competence and Bed Load Transport in a Divided Gravel Bed River. <i>Water Resources Research</i> , 1995, 31, 741-752.	4.2	63
26	Spillage sedimentation on large river floodplains. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 290-305.	2.5	61
27	Can we distinguish flood frequency and magnitude in the sedimentological record of rivers?. <i>Geology</i> , 2010, 38, 579-582.	4.4	59
28	Morphology and spacing of river meander scrolls. <i>Geomorphology</i> , 2018, 310, 57-68.	2.6	58
29	Computational fluid dynamics and the physical modelling of an upland urban river. <i>Geomorphology</i> , 2002, 44, 375-391.	2.6	57
30	The physical scale modelling of braided alluvial architecture and estimation of subsurface permeability. <i>Basin Research</i> , 2002, 14, 265-285.	2.7	54
31	Turbulence and Secondary Flow over Sediment Stripes in Weakly Bimodal Bed Material. <i>Journal of Hydraulic Engineering</i> , 1999, 125, 463-473.	1.5	48
32	The relationship between channel avulsion, flow occupancy and aggradation in braided rivers: insights from an experimental model. <i>Sedimentology</i> , 2007, 54, 497-513.	3.1	48
33	Scales and causes of heterogeneity in bars in a large multi-channel river: Río Paraná, Argentina. <i>Sedimentology</i> , 2014, 61, 1055-1085.	3.1	48
34	Bar-top hollows: A new element in the architecture of sandy braided rivers. <i>Sedimentary Geology</i> , 2006, 190, 241-255.	2.1	38
35	Deposits of the sandy braided South Saskatchewan River: Implications for the use of modern analogs in reconstructing channel dimensions in reservoir characterization. <i>AAPG Bulletin</i> , 2013, 97, 553-576.	1.5	37
36	The role of discharge variability in determining alluvial stratigraphy. <i>Geology</i> , 2016, 44, 3-6.	4.4	36

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37	Hydrodynamic modelling of tidal-fluvial flows in a large river estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 212, 176-188.	2.1	36
38	Mechanisms of anabranch avulsion within gravel-bed braided rivers: observations from a scaled physical model. <i>Geological Society Special Publication</i> , 1993, 75, 119-127.	1.3	33
39	Modelling hydrodynamics in the Rio Paran�ı, Argentina: An evaluation and inter-comparison of reduced-complexity and physics based models applied to a large sand-bed river. <i>Geomorphology</i> , 2012, 169-170, 192-211.	2.6	30
40	The use and application of GPR in sandy fluvial environments: methodological considerations. <i>Geological Society Special Publication</i> , 2003, 211, 127-142.	1.3	28
41	Fluvial form in modern continental sedimentary basins: Distributive fluvial systems: COMMENT. <i>Geology</i> , 2010, 38, e230-e230.	4.4	26
42	Quantification of the relation between surface morphodynamics and subsurface sedimentological product in sandy braided rivers. <i>Sedimentology</i> , 2013, 60, 820-839.	3.1	25
43	Quantification of bedform dynamics and bedload sediment flux in sandy braided rivers from airborne and satellite imagery. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 953-972.	2.5	24
44	Communicating geomorphology: global challenges for the twenty-first century. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 476-486.	2.5	22
45	Flow Structure and Transport of Sand-Grade Suspended Sediment around an Evolving Braid Bar, Jamuna River, Bangladesh. , 0, , 43-57.		21
46	Slope failures in the Ochil Hills, Scotland, November 1984. <i>Earth Surface Processes and Landforms</i> , 1988, 13, 69-76.	2.5	19
47	The Impact of Nonequilibrium Flow on the Structure of Turbulence Over River Dunes. <i>Water Resources Research</i> , 2018, 54, 6566-6584.	4.2	16
48	The Influence of Aggradation Rate on Braided Alluvial Architecture: Field Study and Physical Scale-Modelling of the Ashburton River Gravels, Canterbury Plains, New Zealand. , 0, , 331-346.		15
49	Application of a roughness-length representation to parameterize energy loss in 3D numerical simulations of large rivers. <i>Water Resources Research</i> , 2012, 48, .	4.2	14
50	Influence of Dunes on Channel-Scale Flow and Sediment Transport in a Sand Bed Braided River. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005571.	2.8	10
51	The Influence of Three-Dimensional Topography on Turbulent Flow Structures Over Dunes in Unidirectional Flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006121.	2.8	7
52	Quantifying gravel deposition on river bars using flexible netting. <i>Journal of Sedimentary Research</i> , 1989, 59, 623-624.	1.6	6
53	Three-Dimensional Flow Structure at Open-Channel Diversions. <i>Journal of Hydraulic Engineering</i> , 1995, 121, 87-90.	1.5	3
54	Alluvial architecture of mid-channel fluvial-tidal barforms: The mesotidal Lower Columbia River, Oregon/Washington, USA. <i>Sedimentology</i> , 2020, 67, 3533-3566.	3.1	3

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55	The morphology of fluvial-estuarine tidal dunes: Lower Columbia River, Oregon/Washington, USA. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2079-2106.	2.5	2