

James L Best

List of Publications by Year in descending order

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203
papers

13,932
citations

19657

61
h-index

27406

106
g-index

247
all docs

247
docs citations

247
times ranked

6616
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic stresses on the world's big rivers. <i>Nature Geoscience</i> , 2019, 12, 7-21.	12.9	703
2	The fluid dynamics of river dunes: A review and some future research directions. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	391
3	Sediment transport and bed morphology at river channel confluences. <i>Sedimentology</i> , 1988, 35, 481-498.	3.1	369
4	Mean flow and turbulence structure over fixed, two-dimensional dunes: implications for sediment transport and bedform stability. <i>Sedimentology</i> , 1995, 42, 491-513.	3.1	343
5	Time is running out for sand. <i>Nature</i> , 2019, 571, 29-31.	27.8	260
6	Separation Zone at Open Channel Junctions. <i>Journal of Hydraulic Engineering</i> , 1984, 110, 1588-1594.	1.5	258
7	Morphological evolution and dynamics of a large, sand braid-bar, Jamuna River, Bangladesh. <i>Sedimentology</i> , 2000, 47, 533-555.	3.1	232
8	Scour in large braided rivers and the recognition of sequence stratigraphic boundaries. <i>Nature</i> , 1997, 387, 275-277.	27.8	225
9	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
10	Depositional processes, bedform development and hybrid bed formation in rapidly decelerated cohesive (mud-sand) sediment flows. <i>Sedimentology</i> , 2011, 58, 1953-1987.	3.1	198
11	Morphology and flow fields of three-dimensional dunes, Rio Paranı, Argentina: Results from simultaneous multibeam echo sounding and acoustic Doppler current profiling. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	196
12	Effects of Bed Discordance on Flow Dynamics at Open Channel Confluences. <i>Journal of Hydraulic Engineering</i> , 1996, 122, 676-682.	1.5	193
13	A Phase Diagram for Turbulent, Transitional, and Laminar Clay Suspension Flows. <i>Journal of Sedimentary Research</i> , 2009, 79, 162-183.	1.6	193
14	Flow, sediment transport and bedform dynamics over the transition from dunes to upper-stage plane beds: implications for the formation of planar laminae. <i>Sedimentology</i> , 1988, 35, 753-763.	3.1	190
15	Three-dimensional structure of flow at a confluence of river channels with discordant beds. <i>Geomorphology</i> , 1999, 26, 313-335.	2.6	190
16	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. <i>Nature</i> , 2016, 539, 276-279.	27.8	187
17	FLOW DYNAMICS AT RIVER CHANNEL CONFLUENCES: IMPLICATIONS FOR SEDIMENT TRANSPORT AND BED MORPHOLOGY. , 1987, , 27-35.		185
18	Mixing-layer distortion at the confluence of channels of different depth. <i>Nature</i> , 1991, 350, 411-413.	27.8	184

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19	The sedimentology and alluvial architecture of the sandy braided South Saskatchewan River, Canada. <i>Sedimentology</i> , 2006, 53, 413-434.	3.1	178
20	The morphology and dynamics of low amplitude bedwaves upon upper stage plane beds and the preservation of planar laminae. <i>Sedimentology</i> , 1992, 39, 737-752.	3.1	171
21	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
22	River bank instability from unsustainable sand mining in the lower Mekong River. <i>Nature Sustainability</i> , 2020, 3, 217-225.	23.7	153
23	On the entrainment of sediment and initiation of bed defects: insights from recent developments within turbulent boundary layer research. <i>Sedimentology</i> , 1992, 39, 797-811.	3.1	151
24	An experimental study of turbulent flow over a low-angle dune. <i>Journal of Geophysical Research</i> , 2002, 107, 18-1.	3.3	151
25	Velocity Mapping Toolbox (VMT): a processing and visualization suite for moving vessel ADCP measurements. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1244-1260.	2.5	151
26	Turbulence Modulation and Particle Velocities over Flat Sand Beds at Low Transport Rates. <i>Journal of Hydraulic Engineering</i> , 1997, 123, 1118-1129.	1.5	150
27	Form roughness and the absence of secondary flow in a large confluence—diffluence, Rio Paraná, Argentina. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 155-162.	2.5	144
28	Bed morphology and sedimentology at the confluence of unequal depth channels. <i>Geomorphology</i> , 1993, 8, 115-129.	2.6	141
29	Turbulence Modulation in Clay-Rich Sediment-Laden Flows and Some Implications for Sediment Deposition. <i>Journal of Sedimentary Research</i> , 2002, 72, 336-340.	1.6	137
30	Dynamics of a river channel confluence with discordant beds: Flow turbulence, bed load sediment transport, and bed morphology. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	135
31	Measuring flow velocity and sediment transport with an acoustic Doppler current profiler. <i>Geomorphology</i> , 2005, 68, 25-37.	2.6	133
32	The morphology of river channel confluences. <i>Progress in Physical Geography</i> , 1986, 10, 157-174.	3.2	132
33	Morphology, flow structure, and suspended bed sediment transport at two large braid-bar confluences. <i>Water Resources Research</i> , 2009, 45, .	4.2	131
34	Turbulent flow structure at concordant and discordant open-channel confluences. <i>Experiments in Fluids</i> , 1996, 21, 437-446.	2.4	130
35	Predicting bedforms and primary current stratification in cohesive mixtures of mud and sand. <i>Journal of the Geological Society</i> , 2016, 173, 12-45.	2.1	127
36	Causes of rapid mixing at a junction of two large rivers: Río Paraná and Río Paraguay, Argentina. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	115

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37	Extreme sediment pulses generated by bend cutoffs along a large meandering river. <i>Nature Geoscience</i> , 2011, 4, 675-678.	12.9	115
38	Braided rivers: perspectives and problems. <i>Geological Society Special Publication</i> , 1993, 75, 1-11.	1.3	112
39	Fluid and sediment dynamics of upper stage plane beds. <i>Journal of Geophysical Research</i> , 1998, 103, 1239-1274.	3.3	110
40	Spatial variability in bank resistance to erosion on a large meandering, mixed bedrock-alluvial river. <i>Geomorphology</i> , 2016, 252, 80-97.	2.6	108
41	River piracy and drainage basin reorganization led by climate-driven glacier retreat. <i>Nature Geoscience</i> , 2017, 10, 370-375.	12.9	107
42	Whole flow field dynamics and velocity pulsing within natural sediment-laden underflows. <i>Geology</i> , 2005, 33, 765.	4.4	103
43	Flow structure in sinuous submarine channels: Velocity and turbulence structure of an experimental submarine channel. <i>Marine Geology</i> , 2006, 229, 241-257.	2.1	103
44	Coherent flow structures in a depth-limited flow over a gravel surface: The role of near-bed turbulence and influence of Reynolds number. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	102
45	Relationship between sediment supply and avulsion frequency in braided rivers. <i>Geology</i> , 2004, 32, 21.	4.4	100
46	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. <i>Nature Geoscience</i> , 2012, 5, 534-537.	12.9	100
47	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
48	Comparison of Fixed- and Moving-Vessel Flow Measurements with an aDp in a Large River. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 1299-1309.	1.5	96
49	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
50	On experimental reflected density currents and the interpretation of certain turbidites. <i>Sedimentology</i> , 1994, 41, 437-461.	3.1	92
51	The orientation of helical flow in curved channels. <i>Sedimentology</i> , 2006, 53, 249-257.	3.1	92
52	Flow structure and channel morphodynamics of meander bend chute cutoffs: A case study of the Wabash River, USA. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2468-2487.	2.8	91
53	Preservation of planar laminae due to migration of low-relief bed waves over aggrading upper-stage plane beds: comparison of experimental data with theory. <i>Sedimentology</i> , 1997, 44, 253-262.	3.1	88
54	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

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55	The planform mobility of river channel confluences: Insights from analysis of remotely sensed imagery. <i>Earth-Science Reviews</i> , 2018, 176, 1-18.	9.1	76
56	On the relationship between flow and suspended sediment transport over the crest of a sand dune, Río Paraná, Argentina. <i>Sedimentology</i> , 2010, 57, 252-272.	3.1	74
57	Flow fields, bed shear stresses, and suspended bed sediment dynamics in bifurcations of a large river. <i>Water Resources Research</i> , 2012, 48, .	4.2	73
58	Sedimentation in deep-sea lobe-elements: implications for the origin of thickening-upward sequences. <i>Journal of the Geological Society</i> , 2011, 168, 319-332.	2.1	72
59	Dunes in the world's big rivers are characterized by low-angle lee-side slopes and a complex shape. <i>Nature Geoscience</i> , 2020, 13, 156-162.	12.9	72
60	Measuring Velocity and Shear Stress over Dunes with Acoustic Doppler Profiler. <i>Journal of Hydraulic Engineering</i> , 2004, 130, 932-936.	1.5	65
61	Modulation of outer bank erosion by slump blocks: Disentangling the protective and destructive role of failed material on the three-dimensional flow structure. <i>Geophysical Research Letters</i> , 2015, 42, 10,663.	4.0	65
62	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
63	Sedimentology and event timing of a catastrophic volcanoclastic mass flow, Volcan Hudson, Southern Chile. <i>Bulletin of Volcanology</i> , 1992, 54, 299-318.	3.0	63
64	Three-dimensional flow structure and bed morphology in large elongate meander loops with different outer bank roughness characteristics. <i>Water Resources Research</i> , 2016, 52, 9621-9641.	4.2	60
65	Mean flow, turbulence structure, and bed form superimposition across the ripple-dune transition. <i>Water Resources Research</i> , 2006, 42, .	4.2	59
66	Can we distinguish flood frequency and magnitude in the sedimentological record of rivers?. <i>Geology</i> , 2010, 38, 579-582.	4.4	59
67	Sand, gravel, and UN Sustainable Development Goals: Conflicts, synergies, and pathways forward. <i>One Earth</i> , 2021, 4, 1095-1111.	6.8	59
68	Computational fluid dynamics and the physical modelling of an upland urban river. <i>Geomorphology</i> , 2002, 44, 375-391.	2.6	57
69	A New Phase Diagram for Combined-Flow Bedforms. <i>Journal of Sedimentary Research</i> , 2014, 84, 301-313.	1.6	57
70	The influence of scale, slope and channel geometry on the flow dynamics of submarine channels. <i>Marine and Petroleum Geology</i> , 2007, 24, 487-503.	3.3	56
71	The physical scale modelling of braided alluvial architecture and estimation of subsurface permeability. <i>Basin Research</i> , 2002, 14, 265-285.	2.7	54
72	The dynamics of turbulent, transitional and laminar clayladen flow over a fixed current ripple. <i>Sedimentology</i> , 2008, 55, 635-666.	3.1	53

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73	Suspended sediment transport and deposition over a dune: Río Paraná, Argentina. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1605-1611.	2.5	53
74	An experimental study of discharge partitioning and flow structure at symmetrical bifurcations. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2069-2082.	2.5	52
75	The alluvial architecture of a suspended sediment dominated meandering river: the Río Bermejo, Argentina. <i>Sedimentology</i> , 2016, 63, 1187-1208.	3.1	52
76	Drag reduction in turbulent muddy seawater flows and some sedimentary consequences. <i>Sedimentology</i> , 1993, 40, 1129-1137.	3.1	51
77	Development and testing of a numerical code for treatment of complex river channel topography in three-dimensional CFD models with structured grids. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005, 43, 468-480.	1.7	50
78	Particle-image velocimetry measurements of flow over interacting barchan dunes. <i>Experiments in Fluids</i> , 2012, 52, 809-829.	2.4	50
79	Effect of bed permeability and hyporheic flow on turbulent flow over bed forms. <i>Geophysical Research Letters</i> , 2014, 41, 6435-6442.	4.0	50
80	Extremes in dune preservation: Controls on the completeness of fluvial deposits. <i>Earth-Science Reviews</i> , 2015, 150, 652-665.	9.1	50
81	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
82	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
83	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
84	An integrated process-based model of flutes and tool marks in deep-water environments: Implications for palaeohydraulics, the Bouma sequence and hybrid event beds. <i>Sedimentology</i> , 2020, 67, 1601-1666.	3.1	48
85	The Western Irish Namurian Basin reassessed. <i>Basin Research</i> , 2000, 12, 59-78.	2.7	47
86	Discrimination of bed form scales using robust spline filters and wavelet transforms: Methods and application to synthetic signals and bed forms of the Río Paraná, Argentina. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1400-1418.	2.8	47
87	Response of sand dunes to variations in tidal flow: Fraser Estuary, Canada. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	46
88	The impact of significant input of fine sediment on benthic fauna at tributary junctions: a case study of the Bermejo-Paraguay River confluence, Argentina. <i>Ecohydrology</i> , 2015, 8, 340-352.	2.4	46
89	The influence of tributary flow density differences on the hydrodynamic behavior of a confluent meander bend and implications for flow mixing. <i>Geomorphology</i> , 2018, 304, 99-112.	2.6	46
90	Response of river-dominated delta channel networks to permanent changes in river discharge. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	44

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91	Coherent flow structures in a depth-limited flow over a gravel surface: The influence of surface roughness. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
92	A flume experiment on the effect of channel width on the perturbation and recovery of flow in straight pools and riffles with smooth boundaries. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1850-1863.	2.8	43
93	A unified model for bedform development and equilibrium under unidirectional, oscillatory and combined-flows. <i>Sedimentology</i> , 2014, 61, 2063-2085.	3.1	41
94	The influence of flow discharge variations on the morphodynamics of a diffuence-confluence unit on a large river. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 349-362.	2.5	41
95	On the evolution and form of coherent flow structures over a gravel bed: Insights from whole flow field visualization and measurement. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1472-1493.	2.8	40
96	Length scales and statistical characteristics of outer bank roughness for large elongate meander bends: The influence of bank material properties, floodplain vegetation and flow inundation. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2024-2037.	2.5	40
97	Extreme flood-driven fluvial bank erosion and sediment loads: direct process measurements using integrated Mobile Laser Scanning (MLS) and hydroacoustic techniques. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 334-346.	2.5	39
98	Bar-top hollows: A new element in the architecture of sandy braided rivers. <i>Sedimentary Geology</i> , 2006, 190, 241-255.	2.1	38
99	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
100	Observations and scaling of tidal mass transport across the lower Ganges-Brahmaputra delta plain: implications for delta management and sustainability. <i>Earth Surface Dynamics</i> , 2019, 7, 231-245.	2.4	37
101	The Pace of Human-Induced Change in Large Rivers: Stresses, Resilience, and Vulnerability to Extreme Events. <i>One Earth</i> , 2020, 2, 510-514.	6.8	37
102	Approaching the System-Scale Understanding of Braided River Behaviour. , 0, , 107-135.		36
103	The role of discharge variability in determining alluvial stratigraphy. <i>Geology</i> , 2016, 44, 3-6.	4.4	36
104	Turbulence Links Momentum and Solute Exchange in Coarse-Grained Streambeds. <i>Water Resources Research</i> , 2018, 54, 3225-3242.	4.2	36
105	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
106	Flow separation—a physical process for the concentration of heavy minerals within alluvial channels. <i>Journal of the Geological Society</i> , 1985, 142, 747-755.	2.1	34
107	Large River Channel Confluences. , 2008, , 73-91.		34
108	Grain-Size Controls On the Morphology and Internal Geometry of River-Dominated Deltas. <i>Journal of Sedimentary Research</i> , 2015, 85, 699-714.	1.6	34

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109	The bubble bursts for cavitation in natural rivers: laboratory experiments reveal minor role in bedrock erosion. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1308-1316.	2.5	34
110	Experimental evidence of amplitude modulation in permeable-wall turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	3.4	34
111	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
112	Paragenetic sequences of carbonate and sulphide minerals of the Mamfe Basin (Cameroon): Indicators of palaeo-fluids, palaeo-oxygen levels and diagenetic zones. <i>Journal of African Earth Sciences</i> , 2013, 86, 25-44.	2.0	32
113	Quantitative visualization of flow fields associated with alluvial sand dunes: Results from the laboratory and field using ultrasonic and acoustic doppler anemometry. <i>Journal of Visualization</i> , 2001, 4, 373-381.	1.8	31
114	Quantifying the dynamics of flow within a permeable bed using time-resolved endoscopic particle imaging velocimetry (EPIV). <i>Experiments in Fluids</i> , 2012, 53, 51-76.	2.4	31
115	Source apportionment of soil heavy metals in fluvial islands, Anhui section of the lower Yangtze River: comparison of APCSâ€œMLR and PMF. <i>Journal of Soils and Sediments</i> , 2020, 20, 3380-3393.	3.0	31
116	Modelling hydrodynamics in the Rio ParanÃ¡, 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
117	Turbulent Flow Structure Associated With Collision Between Laterally Offset, Fixedâ€œBed Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2157-2188.	2.8	29
118	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
119	Sedimentology and kinematics of a large, retrogressive growth-fault system in Upper Carboniferous deltaic sediments, western Ireland. <i>Sedimentology</i> , 2004, 51, 1343-1358.	3.1	28
120	Reply to Discussion of Imran <i>et al.</i> on â€œThe orientation of helical flow in curved channelsâ€œ by Corney <i>et al.</i>, <i>Sedimentology</i> , 53, 249â€œ257. <i>Sedimentology</i> , 2008, 55, 241-247.	3.1	28
121	Bed forms in bimodal sand-gravel sediments: laboratory and field analysis. <i>Sedimentology</i> , 2006, 53, 631-654.	3.1	27
122	A numerical investigation into the importance of bed permeability on determining flow structures over river dunes. <i>Water Resources Research</i> , 2017, 53, 3067-3086.	4.2	27
123	Morphology and Facies Models of Channel Confluences. , 0, , 89-100.		27
124	Particle Size and Velocity Discrimination in a Sediment-Laden Turbulent Flow Using Phase Doppler Anemometry. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995, 117, 505-511.	1.5	26
125	Fluvial form in modern continental sedimentary basins: Distributive fluvial systems: COMMENT. <i>Geology</i> , 2010, 38, e230-e230.	4.4	26
126	Large eddy simulation of interacting barchan dunes in a steady, unidirectional flow. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2089-2104.	2.8	26

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127	Experimental study of turbulent flow over and within cubically packed walls of spheres: Effects of topography, permeability and wall thickness. <i>International Journal of Heat and Fluid Flow</i> , 2018, 73, 16-29.	2.4	26
128	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
129	Fluvio-deltaic avulsions during relative sea-level fall. <i>Geology</i> , 2015, 43, 719-722.	4.4	25
130	Effect of Orientation and Size of Helley-Smith Sampler on Its Efficiency. <i>Journal of Hydraulic Engineering</i> , 1994, 120, 758-766.	1.5	24
131	Sedimentology of the Bengal shelf, Bangladesh: comparison of late Miocene sediments, Sitakund anticline, with the modern, tidally dominated shelf. <i>Sedimentary Geology</i> , 2003, 155, 271-300.	2.1	24
132	Describing fluvial systems: linking processes to deposits and stratigraphy. <i>Geological Society Special Publication</i> , 2019, 488, 152-166.	1.3	24
133	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
134	Discussion of "Development of Bed Features" by Arved J. Raudkivi and Hans H. Witte (September, 1970). <i>Journal of Hydraulics</i> , 1970, 1, 23-28.	1.5	23
135	Monitoring Suspended Sediment Dynamics Using MBES. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 45-49.	1.5	23
136	A new methodology for the quantitative visualization of coherent flow structures in alluvial channels using multibeam echosounding (MBES). <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	23
137	On the Causes of Pulsing in Continuous Turbidity Currents. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2827-2843.	2.8	23
138	Spatial Scales of Turbulent Flow Structures Associated With Interacting Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1175-1200.	2.8	22
139	Flow Structure and Transport of Sand-Grade Suspended Sediment around an Evolving Braid Bar, Jamuna River, Bangladesh. , 0, , 43-57.		21
140	River temperature and the thermal-dynamic transport of sediment. <i>Global and Planetary Change</i> , 2019, 178, 168-183.	3.5	21
141	A scheme for resampling, filtering, and subsampling unevenly spaced laser Doppler anemometer data. <i>Mathematical Geosciences</i> , 1995, 27, 731-748.	0.9	20
142	Earthquakes, Rivers and Ice: Scientific Research at the Laguna San Rafael, Southern Chile, 1986. <i>Geographical Journal</i> , 1988, 154, 392.	3.1	19
143	Fluidization pipes in volcanoclastic mass flows, Volcan Hudson, Southern Chile. <i>Terra Nova</i> , 1989, 1, 203-208.	2.1	19
144	The sedimentology of river confluences. <i>Sedimentology</i> , 2019, 66, 391-407.	3.1	19

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145	Bed morphology, flow structure, and sediment transport at the outlet of Lake Huron and in the upper St. Clair River. <i>Journal of Great Lakes Research</i> , 2011, 37, 480-493.	1.9	18
146	Secondary Flows and Vortex Structure Associated With Isolated and Interacting Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005257.	2.8	18
147	Soft-sediment deformation structures as indicators of tectono-volcanic activity during evolution of a lacustrine basin: A case study from the Upper Triassic Ordos Basin, China. <i>Marine and Petroleum Geology</i> , 2020, 115, 104250.	3.3	18
148	Amplification of downstream flood stage due to damming of fine-grained rivers. <i>Nature Communications</i> , 2022, 13, .	12.8	18
149	Electrical Resistance Tomography for Suspended Sediment Measurements in Open Channel Flows Using a Novel Sensor Design. <i>Particle and Particle Systems Characterization</i> , 2006, 23, 313-320.	2.3	17
150	Monitoring the generation and evolution of the sediment plume behind towed fishing gears using a multibeam echosounder. <i>ICES Journal of Marine Science</i> , 2013, 70, 892-903.	2.5	16
151	Bedforms: views and new perspectives from the third international workshop on Marine and River Dune Dynamics (MARID3). <i>Earth Surface Processes and Landforms</i> , 2013, 38, 319-329.	2.5	16
152	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
153	Sedimentologic and palaeoenvironmental evolution of the Mamfe Cretaceous Basin (SW Cameroon): Evidence from lithofacies analysis, tectonics and evaporite minerals suite. <i>Journal of African Earth Sciences</i> , 2019, 149, 19-41.	2.0	16
154	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
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