Gary Parker

List of Publications by Year
in descending order

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192	16,461	10956	17055
papers	citations	71 h-index	122 g-index

209	209	209	5593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface-based bedload transport relation for gravel rivers. Journal of Hydraulic Research/De Recherches Hydrauliques, 1990, 28, 417-436.	0.7	660
2	Bend theory of river meanders. Part 1. Linear development. Journal of Fluid Mechanics, 1981, 112, 363.	1.4	598
3	Self-accelerating turbidity currents. Journal of Fluid Mechanics, 1986, 171, 145.	1.4	566
4	Reanalysis and Correction of Bed-Load Relation of Meyer-Peter and MÃ¼ller Using Their Own Database. Journal of Hydraulic Engineering, 2006, 132, 1159-1168.	0.7	467
5	On the cause and characteristic scales of meandering and braiding in rivers. Journal of Fluid Mechanics, 1976, 76, 457.	1.4	462
6	Self-formed straight rivers with equilibrium banks and mobile bed. Part 2. The gravel river. Journal of Fluid Mechanics, 1978, 89, 127-146.	1.4	423
7	Entrainment of Bed Sediment into Suspension. Journal of Hydraulic Engineering, 1991, 117, 414-435.	0.7	415
8	Bedload and Size Distribution in Paved Gravel-Bed Streams. Journal of Hydraulic Engineering, 1982, 108, 544-571.	0.2	371
9	Experiments on turbidity currents over an erodible bed. Journal of Hydraulic Research/De Recherches Hydrauliques, 1987, 25, 123-147.	0.7	347
10	Physical basis for quasiâ€universal relations describing bankfull hydraulic geometry of singleâ€thread gravel bed rivers. Journal of Geophysical Research, 2007, 112, .	3.3	342
11	Selective Sorting and Abrasion of River Gravel. I: Theory. Journal of Hydraulic Engineering, 1991, 117, 131-147.	0.7	267
12	A new framework for modeling the migration of meandering rivers. Earth Surface Processes and Landforms, 2011, 36, 70-86.	1.2	267
13	Self-formed straight rivers with equilibrium banks and mobile bed. Part 1. The sand-silt river. Journal of Fluid Mechanics, 1978, 89, 109-125.	1.4	266
14	Channel formation by flow stripping: large-scale scour features along the Monterey East Channel and their relation to sediment waves. Sedimentology, 2006, 53, 1265-1287.	1.6	257
15	Natural Processes in Delta Restoration: Application to the Mississippi Delta. Annual Review of Marine Science, 2011, 3, 67-91.	5.1	246
16	Experiments on the entrainment of sediment into suspension by a dense bottom current. Journal of Geophysical Research, 1993, 98, 4793-4807.	3.3	223
17	The dominance of dispersion in the evolution of bed material waves in gravel-bed rivers. Earth Surface Processes and Landforms, 2001, 26, 1409-1420.	1.2	209
18	Downstream Fining by Selective Deposition in a Laboratory Flume. Science, 1992, 258, 1757-1760.	6.0	208

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19	Linear theory of river meanders. Water Resources Monograph, 1989, , 181-213.	1.0	205
20	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. I: Theory. Journal of Hydraulic Engineering, 1998, 124, 985-995.	0.7	201
21	A new vectorial bedload formulation and its application to the time evolution of straight river channels. Journal of Fluid Mechanics, 1994, 267, 153-183.	1.4	198
22	Transport of Gravel and Sediment Mixtures. , 2008, , 165-251.		190
23	Selective Sorting and Abrasion of River Gravel. II: Applications. Journal of Hydraulic Engineering, 1991, 117, 150-171.	0.7	187
24	Distinguishing sediment waves from slope failure deposits: field examples, including the â€˜Humboldt slideâ€™, and modelling results. Marine Geology, 2002, 192, 79-104.	0.9	187
25	Is It Feasible to Build New Land in the Mississippi River Delta?. Eos, 2009, 90, 373-374.	0.1	178
26	Fluvial armor. Journal of Hydraulic Research/De Recherches Hydrauliques, 1990, 28, 529-544.	0.7	174
27	Large Shift in Source of Fine Sediment in the Upper Mississippi River. Environmental Science & Technology, 2011, 45, 8804-8810.	4.6	171
28	Probabilistic Exner Sediment Continuity Equation for Mixtures with No Active Layer. Journal of Hydraulic Engineering, 2000, 126, 818-826.	0.7	170
29	Channel Dynamics, Sediment Transport, and the Slope of Alluvial Fans: Experimental Study. Journal of Geology, 1998, 106, 677-694.	0.7	158
30	Bend theory of river meanders. Part 2. Nonlinear deformation of finite-amplitude bends. Journal of Fluid Mechanics, 1982, 115, 303.	1.4	147
31	Experiments on the effect of hydrograph characteristics on vertical grain sorting in gravel bed rivers. Water Resources Research, 2006, 42, .	1.7	147
32	Flow Resistance and Suspended Load in Sand-Bed Rivers: Simplified Stratification Model. Journal of Hydraulic Engineering, 2004, 130, 796-805.	0.7	146
33	Normal and anomalous diffusion of gravel tracer particles in rivers. Journal of Geophysical Research, 2010, 115, .	3.3	145
34	Physically based modeling of bedrock incision by abrasion, plucking, and macroabrasion. Journal of Geophysical Research, 2009, 114, .	3.3	144
35	On the time development of meander bends. Journal of Fluid Mechanics, 1986, 162, 139.	1.4	141
36	Net local removal of floodplain sediment by river meander migration. Geomorphology, 2008, 96, 123-149.	1.1	138

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37	Fluvio-deltaic sedimentation: A generalized Stefan problem. European Journal of Applied Mathematics, 2000, 11, 433-452.	1.4	136
38	Purely erosional cyclic and solitary steps created by flow over a cohesive bed. Journal of Fluid Mechanics, 2000, 419, 203-238.	1.4	135
39	Meander Bends of High Amplitude. Journal of Hydraulic Engineering, 1983, 109, 1323-1337.	0.7	130
40	Physical Basis for Quasi-Universal Relationships Describing Bankfull Hydraulic Geometry of Sand-Bed Rivers. Journal of Hydraulic Engineering, 2011, 137, 739-753.	0.7	130
41	Numerical simulation of river meandering with self-evolving banks. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2208-2229.	1.0	127
42	The response of turbidity currents to a canyonâ€“fan transition: internal hydraulic jumps and depositional signatures. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 631-653.	0.7	126
43	Numerical modeling of erosional and depositional bank processes in migrating river bends with selfâ€formed width: Morphodynamics of bar push and bank pull. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1455-1483.	1.0	126
44	Experiments on dispersion of tracer stones under lower-regime plane-bed equilibrium bed load transport. Water Resources Research, 2007, 43, .	1.7	119
45	Secondary Flow in Mildly Sinuous Channel. Journal of Hydraulic Engineering, 1989, 115, 289-308.	0.7	116
46	Characteristics of Velocity and Excess Density Profiles of Saline Underflows and Turbidity Currents Flowing over a Mobile Bed. Journal of Hydraulic Engineering, 2010, 136, 412-433.	0.7	115
47	Effect of Floodwater Extraction on Mountain Stream Morphology. Journal of Hydraulic Engineering, 2003, 129, 885-895.	0.7	113
48	Dam Removal Express Assessment Models (DREAM).. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 291-307.	0.7	112
49	Inception of channelization and drainage basin formation: upstream-driven theory. Journal of Fluid Mechanics, 1995, 283, 341-363.	1.4	109
50	Bed load at low Shields stress on arbitrarily sloping beds: Failure of the Bagnold hypothesis. Water Resources Research, 2002, 38, 31-1-31-16.	1.7	109
51	Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation. Journal of Hydraulic Research/De Recherches Hydrauliques, 1996, 34, 35-53.	0.7	105
52	Testing morphodynamic controls on the location and frequency of river avulsions on fans versus deltas: Huanghe (Yellow River), China. Geophysical Research Letters, 2014, 41, 7882-7890.	1.5	103
53	Bedâ€Load Transport on Transverse Slope. I. Journal of Hydraulic Engineering, 1992, 118, 513-535.	0.7	101
54	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. Nature Geoscience, 2012, 5, 534-537.	5.4	100

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55	Bed load at low Shields stress on arbitrarily sloping beds: Alternative entrainment formulation. Water Resources Research, 2003, 39, .	1.7	99
56	Sediment pulses in mountain rivers: 1. Experiments. Water Resources Research, 2003, 39, .	1.7	99
57	Experimental study of bedrock channel alluviation under varied sediment supply and hydraulic conditions. Water Resources Research, 2008, 44, .	1.7	97
58	Linear stability analysis of channel inception: downstream-driven theory. Journal of Fluid Mechanics, 2000, 419, 239-262.	1.4	94
59	Transportational cyclic steps created by flow over an erodible bed. Part 1. Experiments. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 488-501.	0.7	91
60	Bankfull hydraulic geometry of submarine channels created by turbidity currents: Relations between bankfull channel characteristics and formative flow discharge. Journal of Geophysical Research F: Earth Surface, 2013, 118, 216-228.	1.0	90
61	Density Stratification Effects in Sand-Bed Rivers. Journal of Hydraulic Engineering, 2004, 130, 783-795.	0.7	89
62	Cyclic steps: A phenomenon of supercritical shallow flow from the high mountains to the bottom of the ocean. Journal of Hydro-Environment Research, 2010, 3, 167-172.	1.0	84
63	Experimental study on selfâ€accelerating turbidity currents. Journal of Geophysical Research, 2009, 114, .	3.3	83
64	Displacement characteristics of coarse fluvial bed sediment. Journal of Geophysical Research F: Earth Surface, 2013, 118, 155-165.	1.0	82
65	Interaction among alluvial cover, bed roughness, and incision rate in purely bedrock and alluvialâ€bedrock channel. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2123-2146.	1.0	82
66	Emplacement of massive turbidites linked to extinction of turbulence in turbidity currents. Nature Geoscience, 2012, 5, 42-45.	5.4	81
67	Progradational sand-mud deltas in lakes and reservoirs. Part 1. Theory and numerical modeling. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 127-140.	0.7	77
68	Experiments on upstream-migrating erosional narrowing and widening of an incisional channel caused by dam removal. Water Resources Research, 2004, 40, .	1.7	77
69	Formation and maintenance of singleâ€thread tie channels entering floodplain lakes: Observations from three diverse river systems. Journal of Geophysical Research, 2009, 114, .	3.3	77
70	Numerical model linking bed and bank evolution of incisional channel created by dam removal. Water Resources Research, 2007, 43, .	1.7	75
71	The arrested gravel front: stable gravel-sand transitions in rivers Part 2: General numerical solution. Journal of Hydraulic Research/De Recherches Hydrauliques, 1998, 36, 159-182.	0.7	73
72	Variable Shields number model for river bankfull geometry: bankfull shear velocity is viscosity-dependent but grain size-independent. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 36-48.	0.7	72

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73	Fluvial fan deltas: Linking channel processes with large-scale morphodynamics. Water Resources Research, 2002, 38, 26-1-26-10.	1.7	67
74	The arrested gravel front: stable gravel-sand transitions in rivers Part 1: Simplified analytical solution. Journal of Hydraulic Research/De Recherches Hydrauliques, 1998, 36, 75-100.	0.7	66
75	Turbidity current with a roof: Direct numerical simulation of selfâ€stratified turbulent channel flow driven by suspended sediment. Journal of Geophysical Research, 2009, 114, .	3.3	66
76	The spiral troughs of Mars as cyclic steps. Journal of Geophysical Research E: Planets, 2013, 118, 1835-1857.	1.5	65
77	Unravelling the conundrum of river response to rising seaâ€level from laboratory to field. Part II. The Flyâ€“Strickland River system, Papua New Guinea. Sedimentology, 2008, 55, 1657-1686.	1.6	64
78	Transportational cyclic steps created by flow over an erodible bed. Part 2. Theory and numerical simulation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 502-514.	0.7	62
79	Vertical sorting and the morphodynamics of bed form-dominated rivers: A modeling framework. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	57
80	Fluvial and submarine morphodynamics of laminar and near-laminar flows: a synthesis. Sedimentology, 2010, 57, 1-26.	1.6	57
81	Do alternate bars affect sediment transport and flow resistance in gravelâ€bed rivers?. Earth Surface Processes and Landforms, 2012, 37, 866-875.	1.2	55
82	Mud in rivers transported as flocculated and suspended bed material. Nature Geoscience, 2020, 13, 566-570.	5.4	55
83	Delta progradation driven by an advancing sediment source: Coupled theory and experiment describing the evolution of elongated deltas. Water Resources Research, 2009, 45, .	1.7	54
84	One-dimensional modeling of bed evolution in a gravel bed river subject to a cycled flood hydrograph. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	52
85	River morphodynamics with creation/consumption of grain size stratigraphy 2: numerical model. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 727-741.	0.7	52
86	Morphodynamics of a bedrockâ€alluvial meander bend that incises as it migrates outward: approximate solution of permanent form. Earth Surface Processes and Landforms, 2017, 42, 1342-1354.	1.2	51
87	Simple Model of Sedimentâ€Laden Flows. Journal of Hydraulic Engineering, 1986, 112, 356-375.	0.7	50
88	The exceptional sediment load of fine-grained dispersal systems: Example of the Yellow River, China. Science Advances, 2017, 3, e1603114.	4.7	50
89	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. II: Application. Journal of Hydraulic Engineering, 1998, 124, 996-1004.	0.7	49
90	Nearly pure sorting waves and formation of bedload sheets. Journal of Fluid Mechanics, 1996, 312, 253-278.	1.4	48

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91	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.	1.0	48
92	Modeling framework for sediment deposition, storage, and evacuation in the floodplain of a meandering river: Theory. Water Resources Research, 2008, 44, .	1.7	47
93	Meandering of supraglacial melt streams. Water Resources Research, 1975, 11, 551-552.	1.7	46
94	Bedload transport and bed resistance associated with density and turbidity currents. Sedimentology, 2010, 57, 1463-1490.	1.6	46
95	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Formulation and Theory. Journal of Sedimentary Research, 2006, 76, 783-797.	0.8	45
96	Dam Removal Express Assessment Models (DREAM). Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 308-323.	0.7	45
97	A model to predict the evolution of a gravel bed river under an imposed cyclic hydrograph and its application to the Trinity River. Water Resources Research, 2011, 47, .	1.7	45
98	Hydrogeomorphological differentiation between floodplains and terraces. Earth Surface Processes and Landforms, 2018, 43, 218-228.	1.2	44
99	Macro-roughness model of bedrockâ€“alluvial river morphodynamics. Earth Surface Dynamics, 2015, 3, 113-138.	1.0	43
100	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Experiments--Numerical Simulation and Upscaling. Journal of Sedimentary Research, 2006, 76, 798-818.	0.8	42
101	On how spatial variations of channel width influence river profile curvature. Geophysical Research Letters, 2016, 43, 6313-6323.	1.5	42
102	Unravelling the conundrum of river response to rising seaâ€level from laboratory to field. Part I: Laboratory experiments. Sedimentology, 2008, 55, 1643-1655.	1.6	41
103	Effect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamics. Journal of Hydraulic Engineering, 2008, 134, 378-389.	0.7	41
104	Coevolution of width and sinuosity in meandering rivers. Journal of Fluid Mechanics, 2014, 760, 127-174.	1.4	40
105	Origin of a Preferential Avulsion Node on Lowland River Deltas. Geophysical Research Letters, 2019, 46, 4267-4277.	1.5	39
106	A numerical model to develop long-term sediment budgets using isotopic sediment fingerprints. Computers and Geosciences, 2013, 53, 114-122.	2.0	38
107	More on the evolution of bed material waves in alluvial rivers. Earth Surface Processes and Landforms, 2005, 30, 107-114.	1.2	37
108	Vertical sorting and the morphodynamics of bed formâ€dominated rivers: A sorting evolution model. Journal of Geophysical Research, 2008, 113, .	3.3	36

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109	Shock Fitting of Aggradational Profiles Due to Backwater. Journal of Hydraulic Engineering, 1991, 117, 1129-1144.	0.7	35
110	Physically based model of downstream fining in bedrock streams with lateral input. Water Resources Research, 2010, 46, .	1.7	35
111	Exnerâ€Based Master Equation for transport and dispersion of river pebble tracers: Derivation, asymptotic forms, and quantification of nonlocal vertical dispersion. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1818-1832.	1.0	35
112	Direct numerical simulation of stratification effects in a sediment-laden turbulent channel flow. Journal of Turbulence, 2009, 10, N27.	0.5	34
113	Vertical sorting and the morphodynamics of bed-form-dominated rivers: An equilibrium sorting model. Journal of Geophysical Research, 2006, 111, .	3.3	32
114	10 Adjustment of the bed surface size distribution of gravel-bed rivers in response to cycled hydrographs. Developments in Earth Surface Processes, 2007, , 241-285.	2.8	32
115	Numerical Simulation of Effects of Sediment Supply on Bedrock Channel Morphology. Journal of Hydraulic Engineering, 2016, 142, .	0.7	32
116	Entrainment and suspension of sand and gravel. Earth Surface Dynamics, 2020, 8, 485-504.	1.0	32
117	Software for evaluating sediment-induced stratification in open-channel flows. Computers and Geosciences, 2013, 53, 94-104.	2.0	30
118	Turbidity Currents With Equilibrium Basal Driving Layers: A Mechanism for Long Runout. Geophysical Research Letters, 2018, 45, 1518-1526.	1.5	30
119	Modeling Deltaic Lobeâ€Building Cycles and Channel Avulsions for the Yellow River Delta, China. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2438-2462.	1.0	30
120	Modeling downstream fining in sand-bed rivers. I: formulation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 613-620.	0.7	28
121	Note on the Analysis of Plunging of Density Flows. Journal of Hydraulic Engineering, 2007, 133, 690-694.	0.7	27
122	Gravelâ€bed river evolution in earthquakeâ€prone regions subject to cycled hydrographs and repeated sediment pulses. Earth Surface Processes and Landforms, 2017, 42, 2426-2438.	1.2	27
123	Numerical computation of free meandering channels with the application of slump blocks on the outer bends. Journal of Hydro-Environment Research, 2010, 3, 239-246.	1.0	26
124	Effects of sand content on initial gravel motion in gravelâ€bed rivers. Earth Surface Processes and Landforms, 2017, 42, 1355-1364.	1.2	26
125	Universal relation with regime transition for sediment transport in fine-grained rivers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 171-176.	3.3	26
126	Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta. Water Resources Research, 2013, 49, 3388-3405.	1.7	25

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127	Bed load transport over a broad range of timescales: Determination of three regimes of fluctuations. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2653-2673.	1.0	25
128	Experiments on incipient channelization of submarine fans. Journal of Hydraulic Research/De Recherches Hydrauliques, 2002, 40, 21-32.	0.7	24
129	Modeling framework for sediment deposition, storage, and evacuation in the floodplain of a meandering river: Application to the Clark Fork River, Montana. Water Resources Research, 2008, 44, .	1.7	24
130	Analytical Solution for Anomalous Diffusion of Bedload Tracers Gradually Undergoing Burial. Journal of Geophysical Research F: Earth Surface, 2019, 124, 21-37.	1.0	24
131	Modeling flow and sediment transport dynamics in the lowermost Mississippi River, Louisiana, USA, with an upstream alluvialâ€bedrock transition and a downstream bedrockâ€alluvial transition: Implications for land building using engineered diversions. Journal of Geophysical Research F: Earth Surface, 2015, 120, 534-563.	1.0	23
132	Incisional cyclic steps of permanent form in mixed bedrockâ€alluvial rivers. Journal of Geophysical Research F: Earth Surface, 2017, 122, 130-152.	1.0	22
133	Can Bankfull Discharge and Bankfull Channel Characteristics of an Alluvial Meandering River be Cospecified From a Flow Duration Curve?. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2381-2401.	1.0	22
134	Flow directionality of pristine meandering rivers is embedded in the skewing of high-amplitude bends and neck cutoffs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23448-23454.	3.3	22
135	Channel evolution after dam removal in a poorly sorted sediment mixture: Experiments and numerical model. Water Resources Research, 2014, 50, 8997-9019.	1.7	21
136	Effect of grain sorting on gravel bed river evolution subject to cycled hydrographs: Bed load sheets and breakdown of the hydrograph boundary layer. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1513-1533.	1.0	21
137	Morphodynamic model of the lower Yellow River: flux or entrainment form for sediment mass conservation?. Earth Surface Dynamics, 2018, 6, 989-1010.	1.0	21
138	River morphodynamics with creation/consumption of grain size stratigraphy 1: laboratory experiments. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 715-726.	0.7	20
139	Controls on gravel termination in seven distributary channels of the Selenga River Delta, Baikal Rift basin, Russia. Bulletin of the Geological Society of America, 2016, 128, 1297-1312.	1.6	20
140	Roles of Bank Material in Setting Bankfull Hydraulic Geometry as Informed by the Selenga River Delta, Russia. Water Resources Research, 2019, 55, 827-846.	1.7	19
141	Modeling turbidity currents with nonuniform sediment and reverse buoyancy. Water Resources Research, 2009, 45, .	1.7	18
142	Morphodynamics of river bed variation with variable bedload step length. Earth Surface Dynamics, 2014, 2, 243-253.	1.0	18
143	Morphological evolution of a wellâ€constrained, subaerialâ€“subaqueous source to sink system: Wabush Lake. Sedimentology, 2015, 62, 1636-1664.	1.6	18
144	The Influence of Transport Fluctuations on Spatially Averaged Topography on a Sandy, Braided Fluvial Fan. , 1999, , .		18

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145	Amplification of downstream flood stage due to damming of fine-grained rivers. Nature Communications, 2022, 13, .	5.8	18
146	Probabilistic formulation of conservation of cosmogenic nuclides: effect of surface elevation fluctuations on approach to steady state. Earth Surface Processes and Landforms, 2005, 30, 1127-1144.	1.2	17
147	Planform evolution of deltas with graded alluvial topsets: Insights from threeâ€dimensional tank experiments, geometric considerations and field applications. Sedimentology, 2016, 63, 2158-2189.	1.6	17
148	Cyclic steps on ice. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1023-1048.	1.0	17
149	Extended Engelundâ€“Hansen type sediment transport relation for mixtures based on the sand-silt-bed Lower Yellow River, China. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 770-785.	0.7	17
150	Extreme Memory of Initial Conditions in Numerical Landscape Evolution Models. Geophysical Research Letters, 2019, 46, 6563-6573.	1.5	16
151	Turbidity current with a roof: Success and failure of RANS modeling for turbidity currents under strongly stratified conditions. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1975-1998.	1.0	15
152	Sorting of a sandâ€“gravel mixture in a Gilbertâ€type delta. Sedimentology, 2015, 62, 1446-1465.	1.6	14
153	Basic Principles of River Hydraulics. Journal of Hydraulic Engineering, 1977, 103, 1077-1087.	0.2	14
154	Self-similar long profiles of aggrading submarine leveed channels: Analytical solution and its application to the Amazon channel. Journal of Geophysical Research, 2011, 116, .	3.3	13
155	Experiments on patterns of alluvial cover and bedrock erosion in a meandering channel. Earth Surface Dynamics, 2019, 7, 949-968.	1.0	13
156	The Advectiveâ€Diffusive Morphodynamics of Mixed Bedrockâ€Alluvial Rivers Subjected to Spatiotemporally Varying Sediment Supply. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1731-1755.	1.0	12
157	Emergent stationarity in Yellow River sediment transport and the underlying shift of dominance: from streamflow to vegetation. Hydrology and Earth System Sciences, 2019, 23, 549-556.	1.9	12
158	Can magic sand cause massive degradation of a gravel-bed river at the decadal scale? Shiâ€˜ting River, China. Geomorphology, 2019, 327, 147-158.	1.1	12
159	Numerical simulation of largeâ€scale bed load particle tracer advectionâ€dispersion in rivers with free bars. Journal of Geophysical Research F: Earth Surface, 2017, 122, 847-874.	1.0	11
160	Froude scaling limitations in modeling of turbidity currents. Environmental Fluid Mechanics, 2017, 17, 159-186.	0.7	11
161	Landscape evolution models using the stream power incision model show unrealistic behavior when <i>m</i>â€‰â^•â€‰<i>n</i> equals 0.5. Earth Surface Dynamics, 2017, 5, 807-820.	1.0	11
162	Adjustment of selfâ€formed bankfull channel geometry of meandering rivers: modelling study. Earth Surface Processes and Landforms, 2020, 45, 3313-3322.	1.2	11

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163	The role of lateral erosion in the evolution of nondendritic drainage networks to dendricity and the persistence of dynamic networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
164	Numerical Simulations of Meanders Migrating Laterally as They Incise Into Bedrock. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005645.	1.0	10
165	Quantitative Testing of Model of Bedrock Channel Incision by Plucking and Macroabrasion. Journal of Hydraulic Engineering, 2011, 137, 1311-1317.	0.7	9
166	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. Earth Surface Processes and Landforms, 2012, 37, 957-970.	1.2	9
167	Hydraulic resistance in mixed bedrock-alluvial meandering channels. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 298-313.	0.7	9
168	Co-evolving delta faces under the condition of a moving sediment source. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 42-54.	0.7	8
169	Morphodynamic modeling of the basal boundary of ice cover on brackish lakes. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1432-1442.	1.0	8
170	Theory for a clinoform of permanent form on a continental margin emplaced by weak, dilute muddy turbidity currents. , 2006, , .		8
171	Internal connectivity of meandering rivers: Statistical generalization of channel hydraulic geometry. Water Resources Research, 2015, 51, 7485-7500.	1.7	7
172	Closure toâ€œVariable Shields number model for river bankfull geometry: bankfull shear velocity is viscosity-dependent but grain size-independentâ€•by CHUAN LI, MATTHEW J. CZAPIGA, ESTHER C. EKE, ENRICA VIPARELLI, and GARY PARKER,J. Hydraulic Res.53(1), 2015, 36â€“48. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 234-237.	0.7	7
173	Bankfull Shields number versus slope and grain size. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 760-769.	0.7	7
174	Bedrock-alluvial streams with knickpoint and plunge pool that migrate upstream with permanent form. Scientific Reports, 2019, 9, 6176.	1.6	7
175	Suspended Sedimentâ€Induced Stratification Inferred From Concentration and Velocity Profile Measurements in the Lower Yellow River, China. Water Resources Research, 2022, 58, e2020WR027192.	1.7	7
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