Gary Parker

List of Publications by Citations

193 papers	13,587 citations	65 h-index	113 g-index
209 ext. papers	14,922 ext. citations	4.3 avg, IF	6.65 L-index

#	Paper	IF	Citations
193	Surface-based bedload transport relation for gravel rivers. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **1990**, 28, 417-436	1.9	562
192	Bend theory of river meanders. Part 1. Linear development. *Journal of Fluid Mechanics*, **1981**, 112, 363	3.7	515
191	Self-accelerating turbidity currents. *Journal of Fluid Mechanics*, **1986**, 171, 145	3.7	467
190	On the cause and characteristic scales of meandering and braiding in rivers. *Journal of Fluid Mechanics*, **1976**, 76, 457	3.7	391
189	Reanalysis and Correction of Bed-Load Relation of Meyer-Peter and Müller Using Their Own Database. *Journal of Hydraulic Engineering*, **2006**, 132, 1159-1168	1.8	384
188	Self-formed straight rivers with equilibrium banks and mobile bed. Part 2. The gravel river. *Journal of Fluid Mechanics*, **1978**, 89, 127-146	3.7	357
187	Entrainment of Bed Sediment into Suspension. *Journal of Hydraulic Engineering*, **1991**, 117, 414-435	1.8	356
186	Bedload and Size Distribution in Paved Gravel-Bed Streams. *Journal of Hydraulic Engineering*, **1982**, 108, 544-571		319
185	Experiments on turbidity currents over an erodible bed. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **1987**, 25, 123-147	1.9	293
184	Physical basis for quasi-universal relations describing bankfull hydraulic geometry of single-thread gravel bed rivers. *Journal of Geophysical Research*, **2007**, 112,		284
183	Selective Sorting and Abrasion of River Gravel. I: Theory. *Journal of Hydraulic Engineering*, **1991**, 117, 131-147	1.8	235
182	Self-formed straight rivers with equilibrium banks and mobile bed. Part 1. The sand-silt river. *Journal of Fluid Mechanics*, **1978**, 89, 109-125	3.7	220
181	A new framework for modeling the migration of meandering rivers. *Earth Surface Processes and Landforms*, **2011**, 36, 70-86	3.7	219
180	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	3.3	200
179	Natural processes in delta restoration: application to the Mississippi Delta. *Annual Review of Marine Science*, **2011**, 3, 67-91	15.4	199
178	The dominance of dispersion in the evolution of bed material waves in gravel-bed rivers. *Earth Surface Processes and Landforms*, **2001**, 26, 1409-1420	3.7	185
177	Downstream fining by selective deposition in a laboratory flume. *Science*, **1992**, 258, 1757-60	33.3	179

176	Linear theory of river meanders. *Water Resources Monograph*, **1989**, 181-213		178
175	Experiments on the entrainment of sediment into suspension by a dense bottom current. *Journal of Geophysical Research*, **1993**, 98, 4793-4807		177
174	A new vectorial bedload formulation and its application to the time evolution of straight river channels. *Journal of Fluid Mechanics*, **1994**, 267, 153-183	3.7	168
173	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. I: Theory. *Journal of Hydraulic Engineering*, **1998**, 124, 985-995	1.8	167
172	Distinguishing sediment waves from slope failure deposits: field examples, including the Humboldt slide, and modelling results. *Marine Geology*, **2002**, 192, 79-104	3.3	165
171	Selective Sorting and Abrasion of River Gravel. II: Applications. *Journal of Hydraulic Engineering*, **1991**, 117, 150-171	1.8	163
170	Transport of Gravel and Sediment Mixtures **2008**, 165-251		156
169	Fluvial armor. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **1990**, 28, 529-544	1.9	154
168	Is It Feasible to Build New Land in the Mississippi River Delta?. *Eos*, **2009**, 90, 373-374	1.5	151
167	Probabilistic Exner Sediment Continuity Equation for Mixtures with No Active Layer. *Journal of Hydraulic Engineering*, **2000**, 126, 818-826	1.8	146
166	Large shift in source of fine sediment in the upper Mississippi river. *Environmental Science & Technology*, **2011**, 45, 8804-10	10.3	137
165	Bend theory of river meanders. Part 2. Nonlinear deformation of finite-amplitude bends. *Journal of Fluid Mechanics*, **1982**, 115, 303	3.7	130
164	Normal and anomalous diffusion of gravel tracer particles in rivers. *Journal of Geophysical Research*, **2010**, 115,		129
163	Channel Dynamics, Sediment Transport, and the Slope of Alluvial Fans: Experimental Study. *Journal of Geology*, **1998**, 106, 677-694	2	126
162	On the time development of meander bends. *Journal of Fluid Mechanics*, **1986**, 162, 139	3.7	126
161	Net local removal of floodplain sediment by river meander migration. *Geomorphology*, **2008**, 96, 123-149	4.3	125
160	Fluvio-deltaic sedimentation: A generalized Stefan problem. *European Journal of Applied Mathematics*, **2000**, 11, 433-452	1	122
159	Physically based modeling of bedrock incision by abrasion, plucking, and macroabrasion. *Journal of Geophysical Research*, **2009**, 114,		121

158	Experiments on the effect of hydrograph characteristics on vertical grain sorting in gravel bed rivers. *Water Resources Research*, **2006**, 42,	5.4	120
157	Flow Resistance and Suspended Load in Sand-Bed Rivers: Simplified Stratification Model. *Journal of Hydraulic Engineering*, **2004**, 130, 796-805	1.8	116
156	The response of turbidity currents to a canyon–fan transition: internal hydraulic jumps and depositional signatures. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2006**, 44, 631-653	1.9	109
155	Meander Bends of High Amplitude. *Journal of Hydraulic Engineering*, **1983**, 109, 1323-1337	1.8	109
154	Numerical modeling of erosional and depositional bank processes in migrating river bends with self-formed width: Morphodynamics of bar push and bank pull. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 1455-1483	3.8	106
153	Experiments on dispersion of tracer stones under lower-regime plane-bed equilibrium bed load transport. *Water Resources Research*, **2007**, 43,	5.4	106
152	Numerical simulation of river meandering with self-evolving banks. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 2208-2229	3.8	105
151	Purely erosional cyclic and solitary steps created by flow over a cohesive bed. *Journal of Fluid Mechanics*, **2000**, 419, 203-238	3.7	103
150	Physical Basis for Quasi-Universal Relationships Describing Bankfull Hydraulic Geometry of Sand-Bed Rivers. *Journal of Hydraulic Engineering*, **2011**, 137, 739-753	1.8	99
149	Bed load at low Shields stress on arbitrarily sloping beds: Failure of the Bagnold hypothesis. *Water Resources Research*, **2002**, 38, 31-1-31-16	5.4	99
148	Secondary Flow in Mildly Sinuous Channel. *Journal of Hydraulic Engineering*, **1989**, 115, 289-308	1.8	99
147	Dam Removal Express Assessment Models (DREAM).. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2006**, 44, 291-307	1.9	95
146	Inception of channelization and drainage basin formation: upstream-driven theory. *Journal of Fluid Mechanics*, **1995**, 283, 341-363	3.7	94
145	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	1.9	94
144	Effect of Floodwater Extraction on Mountain Stream Morphology. *Journal of Hydraulic Engineering*, **2003**, 129, 885-895	1.8	93
143	Bed load at low Shields stress on arbitrarily sloping beds: Alternative entrainment formulation. *Water Resources Research*, **2003**, 39,	5.4	92
142	Sediment pulses in mountain rivers: 1. Experiments. *Water Resources Research*, **2003**, 39,	5.4	88
141	Bed-Load Transport on Transverse Slope. I. *Journal of Hydraulic Engineering*, **1992**, 118, 513-535	1.8	86

140	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. *Nature Geoscience*, **2012**, 5, 534-537	18.3	85
139	Experimental study of bedrock channel alluviation under varied sediment supply and hydraulic conditions. *Water Resources Research*, **2008**, 44,	5.4	85
138	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	4.9	80
137	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	1.8	80
136	Linear stability analysis of channel inception: downstream-driven theory. *Journal of Fluid Mechanics*, **2000**, 419, 239-262	3.7	79
135	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	2.3	75
134	Density Stratification Effects in Sand-Bed Rivers. *Journal of Hydraulic Engineering*, **2004**, 130, 783-795	1.8	71
133	Interaction among alluvial cover, bed roughness, and incision rate in purely bedrock and alluvial-bedrock channel. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 2123-2146	3.8	67
132	Emplacement of massive turbidites linked to extinction of turbulence in turbidity currents. *Nature Geoscience*, **2012**, 5, 42-45	18.3	67
131	Experimental study on self-accelerating turbidity currents. *Journal of Geophysical Research*, **2009**, 114,		67
130	Transportational cyclic steps created by flow over an erodible bed. Part 1. Experiments. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2005**, 43, 488-501	1.9	67
129	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	1.9	65
128	Experiments on upstream-migrating erosional narrowing and widening of an incisional channel caused by dam removal. *Water Resources Research*, **2004**, 40,	5.4	65
127	Displacement characteristics of coarse fluvial bed sediment. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 155-165	3.8	64
126	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	1.9	64
125	Numerical model linking bed and bank evolution of incisional channel created by dam removal. *Water Resources Research*, **2007**, 43,	5.4	61
124	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	1.9	61
123	Formation and maintenance of single-thread tie channels entering floodplain lakes: Observations from three diverse river systems. *Journal of Geophysical Research*, **2009**, 114,		58

122	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	1.9	58
121	Turbidity current with a roof: Direct numerical simulation of self-stratified turbulent channel flow driven by suspended sediment. *Journal of Geophysical Research*, **2009**, 114,		57
120	Fluvial fan deltas: Linking channel processes with large-scale morphodynamics. *Water Resources Research*, **2002**, 38, 26-1-26-10	5.4	57
119	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	3.8	55
118	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	1.9	53
117	Unravelling the conundrum of river response to rising sea-level from laboratory to field. Part II. The Fly–Strickland River system, Papua New Guinea. *Sedimentology*, **2008**, 55, 1657-1686	3.3	51
116	Fluvial and submarine morphodynamics of laminar and near-laminar flows: a synthesis. *Sedimentology*, **2010**, 57, 1-26	3.3	49
115	Do alternate bars affect sediment transport and flow resistance in gravel-bed rivers?. *Earth Surface Processes and Landforms*, **2012**, 37, 866-875	3.7	48
114	Vertical sorting and the morphodynamics of bed form–dominated rivers: A modeling framework. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		47
113	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. II: Application. *Journal of Hydraulic Engineering*, **1998**, 124, 996-1004	1.8	47
112	River morphodynamics with creation/consumption of grain size stratigraphy 2: numerical model. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2010**, 48, 727-741	1.9	46
111	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		46
110	The spiral troughs of Mars as cyclic steps. *Journal of Geophysical Research E: Planets*, **2013**, 118, 1835-1857	4.1	45
109	Delta progradation driven by an advancing sediment source: Coupled theory and experiment describing the evolution of elongated deltas. *Water Resources Research*, **2009**, 45,	5.4	44
108	Nearly pure sorting waves and formation of bedload sheets. *Journal of Fluid Mechanics*, **1996**, 312, 253-278	3.7	43
107	Morphodynamics of a bedrock-alluvial meander bend that incises as it migrates outward: approximate solution of permanent form. *Earth Surface Processes and Landforms*, **2017**, 42, 1342-1354	3.7	42
106	The exceptional sediment load of fine-grained dispersal systems: Example of the Yellow River, China. *Science Advances*, **2017**, 3, e1603114	14.3	40
105	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,	5.4	40

104	The cause of advective slowdown of tracer pebbles in rivers: Implementation of Exner-Based Master Equation for coevolving streamwise and vertical dispersion. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 623-637	3.8	39
103	Dam Removal Express Assessment Models (DREAM). *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2006**, 44, 308-323	1.9	38
102	Simple Model of Sediment-Laden Flows. *Journal of Hydraulic Engineering*, **1986**, 112, 356-375	1.8	38
101	Macro-roughness model of bedrock–alluvial river morphodynamics. *Earth Surface Dynamics*, **2015**, 3, 113-138	3.8	37
100	Bedload transport and bed resistance associated with density and turbidity currents. *Sedimentology* , **2010**, 57, 1463-1490	3.3	37
99	Meandering of supraglacial melt streams. *Water Resources Research*, **1975**, 11, 551-552	5.4	37
98	A numerical model to develop long-term sediment budgets using isotopic sediment fingerprints. *Computers and Geosciences*, **2013**, 53, 114-122	4.5	35
97	More on the evolution of bed material waves in alluvial rivers. *Earth Surface Processes and Landforms*, **2005**, 30, 107-114	3.7	34
96	On how spatial variations of channel width influence river profile curvature. *Geophysical Research Letters*, **2016**, 43, 6313-6323	4.9	33
95	Hydrogeomorphological differentiation between floodplains and terraces. *Earth Surface Processes and Landforms*, **2018**, 43, 218-228	3.7	32
94	Exner-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	3.8	32
93	Physically based model of downstream fining in bedrock streams with lateral input. *Water Resources Research*, **2010**, 46,	5.4	32
92	Unravelling the conundrum of river response to rising sea-level from laboratory to field. Part I: Laboratory experiments. *Sedimentology*, **2008**, 55, 1643-1655	3.3	32
91	Modeling framework for sediment deposition, storage, and evacuation in the floodplain of a meandering river: Theory. *Water Resources Research*, **2008**, 44,	5.4	32
90	Vertical sorting and the morphodynamics of bed form-dominated rivers: A sorting evolution model. *Journal of Geophysical Research*, **2008**, 113,		31
89	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Formulation and Theory. *Journal of Sedimentary Research*, **2006**, 76, 783-797	2.1	31
88	Direct numerical simulation of stratification effects in a sediment-laden turbulent channel flow. *Journal of Turbulence*, **2009**, 10, N27	2.1	30
87	Coevolution of width and sinuosity in meandering rivers. *Journal of Fluid Mechanics*, **2014**, 760, 127-174	3.7	29

86	Effect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamics. *Journal of Hydraulic Engineering*, **2008**, 134, 378-389	1.8	29
85	Shock Fitting of Aggradational Profiles Due to Backwater. *Journal of Hydraulic Engineering*, **1991**, 117, 1129-1144	1.8	29
84	Software for evaluating sediment-induced stratification in open-channel flows. *Computers and Geosciences*, **2013**, 53, 94-104	4.5	27
83	The Mechanics of Marine Sediment Gravity Flows275-337		27
82	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Experiments--Numerical Simulation and Upscaling. *Journal of Sedimentary Research*, **2006**, 76, 798-818	2.1	27
81	Numerical Simulation of Effects of Sediment Supply on Bedrock Channel Morphology. *Journal of Hydraulic Engineering*, **2016**, 142, 04016014	1.8	26
80	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	26
79	Vertical sorting and the morphodynamics of bed-form-dominated rivers: An equilibrium sorting model. *Journal of Geophysical Research*, **2006**, 111,		26
78	Origin of a Preferential Avulsion Node on Lowland River Deltas. *Geophysical Research Letters*, **2019**, 46, 4267-4277	4.9	24
77	Modeling Deltaic Lobe-Building Cycles and Channel Avulsions for the Yellow River Delta, China. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 2438-2462	3.8	23
76	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	2.3	22
75	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,	5.4	22
74	Note on the Analysis of Plunging of Density Flows. *Journal of Hydraulic Engineering*, **2007**, 133, 690-694	1.8	21
73	Experiments on incipient channelization of submarine fans. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2002**, 40, 21-32	1.9	21
72	Effects of sand content on initial gravel motion in gravel-bed rivers. *Earth Surface Processes and Landforms*, **2017**, 42, 1355-1364	3.7	20
71	Modeling flow and sediment transport dynamics in the lowermost Mississippi River, Louisiana, USA, with an upstream alluvial-bedrock transition and a downstream bedrock-alluvial transition: Implications for land building using engineered diversions. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 534-563	3.8	20
70	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	3.8	20
69	Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta. *Water Resources Research*, **2013**, 49, 3388-3405	5.4	20

68	Modeling downstream fining in sand-bed rivers. I: formulation. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2005**, 43, 613-620	1.9	20
67	Turbidity Currents With Equilibrium Basal Driving Layers: A Mechanism for Long Runout. *Geophysical Research Letters*, **2018**, 45, 1518-1526	4.9	19
66	Gravel-bed river evolution in earthquake-prone regions subject to cycled hydrographs and repeated sediment pulses. *Earth Surface Processes and Landforms*, **2017**, 42, 2426-2438	3.7	19
65	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	3.8	18
64	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	11.5	18
63	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	3.9	17
62	Morphodynamics of river bed variation with variable bedload step length. *Earth Surface Dynamics*, **2014**, 2, 243-253	3.8	17
61	River morphodynamics with creation/consumption of grain size stratigraphy 1: laboratory experiments. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2010**, 48, 715-726	1.9	17
60	Modeling turbidity currents with nonuniform sediment and reverse buoyancy. *Water Resources Research*, **2009**, 45,	5.4	17
59	Planform evolution of deltas with graded alluvial topsets: Insights from three-dimensional tank experiments, geometric considerations and field applications. *Sedimentology*, **2016**, 63, 2158-2189	3.3	17
58	Channel evolution after dam removal in a poorly sorted sediment mixture: Experiments and numerical model. *Water Resources Research*, **2014**, 50, 8997-9019	5.4	16
57	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	3.7	16
56	Analytical Solution for Anomalous Diffusion of Bedload Tracers Gradually Undergoing Burial. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 21-37	3.8	16
55	Morphodynamic model of the lower Yellow River: flux or entrainment form for sediment mass conservation?. *Earth Surface Dynamics*, **2018**, 6, 989-1010	3.8	16
54	Mud in rivers transported as flocculated and suspended bed material. *Nature Geoscience*, **2020**, 13, 566-570	18.3	15
53	Morphological evolution of a well-constrained, subaerial–subaqueous source to sink system: Wabush Lake. *Sedimentology*, **2015**, 62, 1636-1664	3.3	15
52	Incisional cyclic steps of permanent form in mixed bedrock-alluvial rivers. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 130-152	3.8	14
51	Basic Principles of River Hydraulics. *Journal of Hydraulic Engineering*, **1977**, 103, 1077-1087		14

50	Roles of Bank Material in Setting Bankfull Hydraulic Geometry as Informed by the Selenga River Delta, Russia. *Water Resources Research*, **2019**, 55, 827-846	5.4	13
49	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	3.8	13
48	The Influence of Transport Fluctuations on Spatially Averaged Topography on a Sandy, Braided Fluvial Fan **1999**,		13
47	Self-similar long profiles of aggrading submarine leveed channels: Analytical solution and its application to the Amazon channel. *Journal of Geophysical Research*, **2011**, 116,		12
46	Cyclic steps on ice. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 1023-1048	3.8	11
45	Numerical simulation of large-scale bed load particle tracer advection-dispersion in rivers with free bars. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 847-874	3.8	10
44	Extended Engelund□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	1.9	10
43	Extreme Memory of Initial Conditions in Numerical Landscape Evolution Models. *Geophysical Research Letters*, **2019**, 46, 6563-6573	4.9	10
42	Sorting of a sand□gravel mixture in a Gilbert-type delta. *Sedimentology*, **2015**, 62, 1446-1465	3.3	10
41	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	3.8	9
40	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	11.5	9
39	Froude scaling limitations in modeling of turbidity currents. *Environmental Fluid Mechanics*, **2017**, 17, 159-186	2.2	9
38	Quantitative Testing of Model of Bedrock Channel Incision by Plucking and Macroabrasion. *Journal of Hydraulic Engineering*, **2011**, 137, 1311-1317	1.8	9
37	Experiments on patterns of alluvial cover and bedrock erosion in a meandering channel. *Earth Surface Dynamics*, **2019**, 7, 949-968	3.8	9
36	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	5.5	8
35	Entrainment and suspension of sand and gravel. *Earth Surface Dynamics*, **2020**, 8, 485-504	3.8	8
34	The Advective-Diffusive Morphodynamics of Mixed Bedrock-Alluvial Rivers Subjected to Spatiotemporally Varying Sediment Supply. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 1731-1755	3.8	8
33	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. *Earth Surface Processes and Landforms*, **2012**, 37, 957-970	3.7	8

32	Co-evolving delta faces under the condition of a moving sediment source. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2011**, 49, 42-54	1.9	7
31	Landscape evolution models using the stream power incision model show unrealistic behavior when <i>m</i> <i>n</i> equals 0.5. *Earth Surface Dynamics*, **2017**, 5, 807-820	3.8	6
30	Closure to Variable Shields number model for river bankfull geometry: bankfull shear velocity is viscosity-dependent but grain size-independent by CHUAN LI, MATTHEW J. CZAPIGA, ESTHER C. EKE, ENRICA VIPARELLI, and GARY PARKER, J. Hydraulic Res. 53(1), 2015, 36–48. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2016**, 54, 234-237	1.9	6
29	Bankfull Shields number versus slope and grain size. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2019**, 57, 760-769	1.9	5
28	Morphodynamic modeling of the basal boundary of ice cover on brackish lakes. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1432-1442	3.8	5
27	Internal connectivity of meandering rivers: Statistical generalization of channel hydraulic geometry. *Water Resources Research*, **2015**, 51, 7485-7500	5.4	5
26	A simplified approach to address turbulence modulation in turbidity currents as a response to slope breaks and loss of lateral confinement. *Environmental Fluid Mechanics*, **2014**, 14, 371-385	2.2	5
25	Adjustment of self-formed bankfull channel geometry of meandering rivers: modelling study. *Earth Surface Processes and Landforms*, **2020**, 45, 3313-3322	3.7	5
24	Theory for a clinoform of permanent form on a continental margin emplaced by weak, dilute muddy turbidity currents **2006**,		4
23	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,	11.5	4
22	Hydraulic resistance in mixed bedrock-alluvial meandering channels. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2021**, 59, 298-313	1.9	4
21	Amplification of downstream flood stage due to damming of fine-grained rivers. *Nature Communications*, **2022**, 13,	17.4	4
20	Bedrock-alluvial streams with knickpoint and plunge pool that migrate upstream with permanent form. *Scientific Reports*, **2019**, 9, 6176	4.9	3
19	How canyons evolve by incision into bedrock: Rainbow Canyon, Death Valley National Park, United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14730-14737	11.5	3
18	Upper Mississippi River Flow and Sediment Characteristics and Their Effect on a Harbor Siltation Case. *Journal of Hydraulic Engineering*, **2018**, 144, 04018066	1.8	3
17	Prediction of Margin Stratigraphy459-529		3
16	Macro-roughness model of bedrock-alluvial river morphodynamics		3
15	Can magic sand cause massive degradation of a gravel-bed river at the decadal scale? Shi-ting River, China. *Geomorphology*, **2019**, 327, 147-158	4.3	3

14	Reply to comment by J. Peakall et al. on "A simple model for vertical profiles of velocity and suspended sediment concentration in straight and curved submarine channels". *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 2074-2078	3.8	2
13	Response of the Minnesota River to Variant Sediment Loading. *Journal of Hydraulic Engineering*, **2020**, 146, 04020064	1.8	2
12	Numerical Simulations of Meanders Migrating Laterally as They Incise Into Bedrock. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2020JF005645	3.8	2
11	Grain Size-Specific Engelund-Hansen Type Relation for Bed Material Load in Sand-Bed Rivers, With Application to the Mississippi River. *Water Resources Research*, **2021**, 57, e2020WR027517	5.4	2
10	Modelling deltaic progradation constrained by a moving sediment source. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2013**, 51, 284-292	1.9	1
9	Initiation of Channel Head Bifurcation by Overland Flow. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 2348-2369	3.8	1
8	CYCLIC STEP MORPHOLOGY FORMED ON BEDROCK. *Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)*, **2012**, 68, I_955-I_960	0.1	1
7	River morphological evolution in earthquake-hit region: Effects of floods and pulsed sediment supply **2014**, 1275-1281		1
6	The role of saltwater and waves in continental shelf formation with seaward migrating clinoform. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1266-1273	11.5	1
5	Suspended-sediment induced stratification inferred from concentration and velocity profile measurements in the lower Yellow River, China. *Water Resources Research*, **2020**, e2020WR027192	5.4	1
4	Laboratory observations on meltwater meandering rivulets on ice. *Earth Surface Dynamics*, **2021**, 9, 253-269	3.8	1
3	Erosional Cyclic Steps Governed by Plunge Pool Erosion: A Parametric Study Based on Field, Laboratory, and Model Data. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2020JF006034	3.8	0
2	Emplacement of massive deposits by sheet flow. *Sedimentology*, **2020**, 67, 1951-1972	3.3	0
1	NUMERICAL ANALYSIS THE MIGRATION OF FREE MEANDERING. *Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)*, **2012**, 68, I_1183-I_1188	0.1	