

Gary Parker

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/465922/gary-parker-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Amplification of downstream flood stage due to damming of fine-grained rivers. <i>Nature Communications</i> , 2022 , 13,	17.4	4
192	Erosional Cyclic Steps Governed by Plunge Pool Erosion: A Parametric Study Based on Field, Laboratory, and Model Data. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF006034	3.8	0
191	Laboratory observations on meltwater meandering rivulets on ice. <i>Earth Surface Dynamics</i> , 2021 , 9, 253-269	3.69	1
190	The role of lateral erosion in the evolution of nondendritic drainage networks to dendricity and the persistence of dynamic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
189	Numerical Simulations of Meanders Migrating Laterally as They Incise Into Bedrock. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF005645	3.8	2
188	Hydraulic resistance in mixed bedrock-alluvial meandering channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 298-313	1.9	4
187	Grain Size-Specific Engelund-Hansen Type Relation for Bed Material Load in Sand-Bed Rivers, With Application to the Mississippi River. <i>Water Resources Research</i> , 2021 , 57, e2020WR027517	5.4	2
186	Entrainment and suspension of sand and gravel. <i>Earth Surface Dynamics</i> , 2020 , 8, 485-504	3.8	8
185	How canyons evolve by incision into bedrock: Rainbow Canyon, Death Valley National Park, United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14730-14737	11.5	7
184	Mud in rivers transported as flocculated and suspended bed material. <i>Nature Geoscience</i> , 2020 , 13, 566-573	17.3	15
183	Emplacement of massive deposits by sheet flow. <i>Sedimentology</i> , 2020 , 67, 1951-1972	3.3	0
182	The role of saltwater and waves in continental shelf formation with seaward migrating clinoform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1266-1273	11.5	1
181	Universal relation with regime transition for sediment transport in fine-grained rivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 171-176	11.5	18
180	Suspended-sediment induced stratification inferred from concentration and velocity profile measurements in the lower Yellow River, China. <i>Water Resources Research</i> , 2020 , e2020WR027192	5.4	1
179	Response of the Minnesota River to Variant Sediment Loading. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04020064	1.8	2
178	Adjustment of self-formed bankfull channel geometry of meandering rivers: modelling study. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 3313-3322	3.7	5
177	Bankfull Shields number versus slope and grain size. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019 , 57, 760-769	1.9	5

176	Extended Engelund-Hansen type sediment transport relation for mixtures based on the sand-silt-bed Lower Yellow River, China. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019 , 57, 770-785	1.9	10
175	Extreme Memory of Initial Conditions in Numerical Landscape Evolution Models. <i>Geophysical Research Letters</i> , 2019 , 46, 6563-6573	4.9	10
174	Origin of a Preferential Avulsion Node on Lowland River Deltas. <i>Geophysical Research Letters</i> , 2019 , 46, 4267-4277	4.9	24
173	Bedrock-alluvial streams with knickpoint and plunge pool that migrate upstream with permanent form. <i>Scientific Reports</i> , 2019 , 9, 6176	4.9	3
172	Roles of Bank Material in Setting Bankfull Hydraulic Geometry as Informed by the Selenga River Delta, Russia. <i>Water Resources Research</i> , 2019 , 55, 827-846	5.4	13
171	Emergent stationarity in Yellow River sediment transport and the underlying shift of dominance: from streamflow to vegetation. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 549-556	5.5	8
170	Can Bankfull Discharge and Bankfull Channel Characteristics of an Alluvial Meandering River be Cospecified From a Flow Duration Curve?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 2381-2401	3.8	9
169	Flow directionality of pristine meandering rivers is embedded in the skewing of high-amplitude bends and neck cutoffs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23448-23454	11.5	9
168	Modeling Deltaic Lobe-Building Cycles and Channel Avulsions for the Yellow River Delta, China. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 2438-2462	3.8	23
167	Experiments on patterns of alluvial cover and bedrock erosion in a meandering channel. <i>Earth Surface Dynamics</i> , 2019 , 7, 949-968	3.8	9
166	Can magic sand cause massive degradation of a gravel-bed river at the decadal scale? Shi-ting River, China. <i>Geomorphology</i> , 2019 , 327, 147-158	4.3	3
165	Analytical Solution for Anomalous Diffusion of Bedload Tracers Gradually Undergoing Burial. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 21-37	3.8	16
164	Turbidity Currents With Equilibrium Basal Driving Layers: A Mechanism for Long Runout. <i>Geophysical Research Letters</i> , 2018 , 45, 1518-1526	4.9	19
163	Hydrogeomorphological differentiation between floodplains and terraces. <i>Earth Surface Processes and Landforms</i> , 2018 , 43, 218-228	3.7	32
162	Upper Mississippi River Flow and Sediment Characteristics and Their Effect on a Harbor Siltation Case. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018066	1.8	3
161	The Advective-Diffusive Morphodynamics of Mixed Bedrock-Alluvial Rivers Subjected to Spatiotemporally Varying Sediment Supply. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 1731-1755	3.8	8
160	Morphodynamic model of the lower Yellow River: flux or entrainment form for sediment mass conservation?. <i>Earth Surface Dynamics</i> , 2018 , 6, 989-1010	3.8	16
159	Effects of sand content on initial gravel motion in gravel-bed rivers. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 1355-1364	3.7	20

158	The exceptional sediment load of fine-grained dispersal systems: Example of the Yellow River, China. <i>Science Advances</i> , 2017 , 3, e1603114	14.3	40
157	Numerical simulation of large-scale bed load particle tracer advection-dispersion in rivers with free bars. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 847-874	3.8	10
156	Incisional cyclic steps of permanent form in mixed bedrock-alluvial rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 130-152	3.8	14
155	Landscape evolution models using the stream power incision model show unrealistic behavior when $\frac{\partial \tau}{\partial x} = 0.5$. <i>Earth Surface Dynamics</i> , 2017 , 5, 807-820	3.8	6
154	Effect of grain sorting on gravel bed river evolution subject to cycled hydrographs: Bed load sheets and breakdown of the hydrograph boundary layer. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 1513-1533	3.8	18
153	Initiation of Channel Head Bifurcation by Overland Flow. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 2348-2369	3.8	1
152	Gravel-bed river evolution in earthquake-prone regions subject to cycled hydrographs and repeated sediment pulses. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 2426-2438	3.7	19
151	Froude scaling limitations in modeling of turbidity currents. <i>Environmental Fluid Mechanics</i> , 2017 , 17, 159-186	2.2	9
150	Morphodynamics of a bedrock-alluvial meander bend that incises as it migrates outward: approximate solution of permanent form. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 1342-1354	3.7	42
149	On how spatial variations of channel width influence river profile curvature. <i>Geophysical Research Letters</i> , 2016 , 43, 6313-6323	4.9	33
148	The cause of advective slowdown of tracer pebbles in rivers: Implementation of Exner-Based Master Equation for coevolving streamwise and vertical dispersion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 623-637	3.8	39
147	Controls on gravel termination in seven distributary channels of the Selenga River Delta, Baikal Rift basin, Russia. <i>Bulletin of the Geological Society of America</i> , 2016 , 128, 1297-1312	3.9	17
146	Numerical Simulation of Effects of Sediment Supply on Bedrock Channel Morphology. <i>Journal of Hydraulic Engineering</i> , 2016 , 142, 04016014	1.8	26
145	Planform evolution of deltas with graded alluvial topsets: Insights from three-dimensional tank experiments, geometric considerations and field applications. <i>Sedimentology</i> , 2016 , 63, 2158-2189	3.3	17
144	Cyclic steps on ice. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 1023-1048	3.8	11
143	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, <i>J. Hydraulic Res.</i> 53(1), 2015, 36-48. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015 , 53, 36-48	1.9	6
142	Variable Shields number model for river bankfull geometry: bankfull shear velocity is viscosity-dependent but grain size-independent. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015 , 53, 36-48	1.9	65
141	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. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 534-563	3.8	20

140	Internal connectivity of meandering rivers: Statistical generalization of channel hydraulic geometry. <i>Water Resources Research</i> , 2015 , 51, 7485-7500	5.4	5
139	Sorting of a sand-gravel mixture in a Gilbert-type delta. <i>Sedimentology</i> , 2015 , 62, 1446-1465	3.3	10
138	Morphological evolution of a well-constrained, subaerial-subaqueous source to sink system: Wabush Lake. <i>Sedimentology</i> , 2015 , 62, 1636-1664	3.3	15
137	Macro-roughness model of bedrock-alluvial river morphodynamics. <i>Earth Surface Dynamics</i> , 2015 , 3, 113-138	3.8	37
136	Testing morphodynamic controls on the location and frequency of river avulsions on fans versus deltas: Huanghe (Yellow River), China. <i>Geophysical Research Letters</i> , 2014 , 41, 7882-7890	4.9	80
135	Interaction among alluvial cover, bed roughness, and incision rate in purely bedrock and alluvial-bedrock channel. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 2123-2146	3.8	67
134	Numerical modeling of erosional and depositional bank processes in migrating river bends with self-formed width: Morphodynamics of bar push and bank pull. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 1455-1483	3.8	106
133	Exner-Based Master Equation for transport and dispersion of river pebble tracers: Derivation, asymptotic forms, and quantification of nonlocal vertical dispersion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 1818-1832	3.8	32
132	Channel evolution after dam removal in a poorly sorted sediment mixture: Experiments and numerical model. <i>Water Resources Research</i> , 2014 , 50, 8997-9019	5.4	16
131	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" <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 2074-2078	3.8	2
130	Morphodynamics of river bed variation with variable bedload step length. <i>Earth Surface Dynamics</i> , 2014 , 2, 243-253	3.8	17
129	Bed load transport over a broad range of timescales: Determination of three regimes of fluctuations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 2653-2673	3.8	20
128	Coevolution of width and sinuosity in meandering rivers. <i>Journal of Fluid Mechanics</i> , 2014 , 760, 127-174	3.7	29
127	A simplified approach to address turbulence modulation in turbidity currents as a response to slope breaks and loss of lateral confinement. <i>Environmental Fluid Mechanics</i> , 2014 , 14, 371-385	2.2	5
126	River morphological evolution in earthquake-hit region: Effects of floods and pulsed sediment supply 2014 , 1275-1281		1
125	Modelling deltaic progradation constrained by a moving sediment source. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013 , 51, 284-292	1.9	1
124	A numerical model to develop long-term sediment budgets using isotopic sediment fingerprints. <i>Computers and Geosciences</i> , 2013 , 53, 114-122	4.5	35
123	Morphodynamic modeling of the basal boundary of ice cover on brackish lakes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 1432-1442	3.8	5

122	Software for evaluating sediment-induced stratification in open-channel flows. <i>Computers and Geosciences</i> , 2013 , 53, 94-104	4.5	27
121	The spiral troughs of Mars as cyclic steps. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1835-1857	7.1	45
120	Displacement characteristics of coarse fluvial bed sediment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 155-165	3.8	64
119	Numerical simulation of river meandering with self-evolving banks. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 2208-2229	3.8	105
118	Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta. <i>Water Resources Research</i> , 2013 , 49, 3388-3405	5.4	20
117	Turbidity current with a roof: Success and failure of RANS modeling for turbidity currents under strongly stratified conditions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 1975-1998	3.8	13
116	Bankfull hydraulic geometry of submarine channels created by turbidity currents: Relations between bankfull channel characteristics and formative flow discharge. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 216-228	3.8	55
115	Emplacement of massive turbidites linked to extinction of turbulence in turbidity currents. <i>Nature Geoscience</i> , 2012 , 5, 42-45	18.3	67
114	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. <i>Earth Surface Processes and Landforms</i> , 2012 , 37, 957-970	3.7	8
113	Do alternate bars affect sediment transport and flow resistance in gravel-bed rivers?. <i>Earth Surface Processes and Landforms</i> , 2012 , 37, 866-875	3.7	48
112	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. <i>Nature Geoscience</i> , 2012 , 5, 534-537	18.3	85
111	NUMERICAL ANALYSIS THE MIGRATION OF FREE MEANDERING. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2012 , 68, I_1183-I_1188	0.1	
110	CYCLIC STEP MORPHOLOGY FORMED ON BEDROCK. <i>Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering)</i> , 2012 , 68, I_955-I_960	0.1	1
109	Self-similar long profiles of aggrading submarine leveed channels: Analytical solution and its application to the Amazon channel. <i>Journal of Geophysical Research</i> , 2011 , 116,		12
108	A model to predict the evolution of a gravel bed river under an imposed cyclic hydrograph and its application to the Trinity River. <i>Water Resources Research</i> , 2011 , 47,	5.4	40
107	Natural processes in delta restoration: application to the Mississippi Delta. <i>Annual Review of Marine Science</i> , 2011 , 3, 67-91	15.4	199
106	A new framework for modeling the migration of meandering rivers. <i>Earth Surface Processes and Landforms</i> , 2011 , 36, 70-86	3.7	219
105	Co-evolving delta faces under the condition of a moving sediment source. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011 , 49, 42-54	1.9	7

104	Large shift in source of fine sediment in the upper Mississippi river. <i>Environmental Science & Technology</i> , 2011 , 45, 8804-10	10.3	137
103	Quantitative Testing of Model of Bedrock Channel Incision by Plucking and Macroabrasion. <i>Journal of Hydraulic Engineering</i> , 2011 , 137, 1311-1317	1.8	9
102	Physical Basis for Quasi-Universal Relationships Describing Bankfull Hydraulic Geometry of Sand-Bed Rivers. <i>Journal of Hydraulic Engineering</i> , 2011 , 137, 739-753	1.8	99
101	Fluvial and submarine morphodynamics of laminar and near-laminar flows: a synthesis. <i>Sedimentology</i> , 2010 , 57, 1-26	3.3	49
100	Bedload transport and bed resistance associated with density and turbidity currents. <i>Sedimentology</i> , 2010 , 57, 1463-1490	3.3	37
99	Characteristics of Velocity and Excess Density Profiles of Saline Underflows and Turbidity Currents Flowing over a Mobile Bed. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 412-433	1.8	80
98	River morphodynamics with creation/consumption of grain size stratigraphy 2: numerical model. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 727-741	1.9	46
97	River morphodynamics with creation/consumption of grain size stratigraphy 1: laboratory experiments. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 715-726	1.9	17
96	Cyclic steps: A phenomenon of supercritical shallow flow from the high mountains to the bottom of the ocean. <i>Journal of Hydro-Environment Research</i> , 2010 , 3, 167-172	2.3	75
95	Numerical computation of free meandering channels with the application of slump blocks on the outer bends. <i>Journal of Hydro-Environment Research</i> , 2010 , 3, 239-246	2.3	22
94	Normal and anomalous diffusion of gravel tracer particles in rivers. <i>Journal of Geophysical Research</i> , 2010 , 115,		129
93	Physically based model of downstream fining in bedrock streams with lateral input. <i>Water Resources Research</i> , 2010 , 46,	5.4	32
92	Direct numerical simulation of stratification effects in a sediment-laden turbulent channel flow. <i>Journal of Turbulence</i> , 2009 , 10, N27	2.1	30
91	Turbidity current with a roof: Direct numerical simulation of self-stratified turbulent channel flow driven by suspended sediment. <i>Journal of Geophysical Research</i> , 2009 , 114,		57
90	Experimental study on self-accelerating turbidity currents. <i>Journal of Geophysical Research</i> , 2009 , 114,		67
89	Physically based modeling of bedrock incision by abrasion, plucking, and macroabrasion. <i>Journal of Geophysical Research</i> , 2009 , 114,		121
88	Formation and maintenance of single-thread tie channels entering floodplain lakes: Observations from three diverse river systems. <i>Journal of Geophysical Research</i> , 2009 , 114,		58
87	Delta progradation driven by an advancing sediment source: Coupled theory and experiment describing the evolution of elongated deltas. <i>Water Resources Research</i> , 2009 , 45,	5.4	44

86	Modeling turbidity currents with nonuniform sediment and reverse buoyancy. <i>Water Resources Research</i> , 2009 , 45,	5-4	17
85	Is It Feasible to Build New Land in the Mississippi River Delta?. <i>Eos</i> , 2009 , 90, 373-374	1-5	151
84	Unravelling the conundrum of river response to rising sea-level from laboratory to field. Part I: Laboratory experiments. <i>Sedimentology</i> , 2008 , 55, 1643-1655	3-3	32
83	Unravelling the conundrum of river response to rising sea-level from laboratory to field. Part II. The Fly-Strickland River system, Papua New Guinea. <i>Sedimentology</i> , 2008 , 55, 1657-1686	3-3	51
82	Vertical sorting and the morphodynamics of bed form-dominated rivers: A sorting evolution model. <i>Journal of Geophysical Research</i> , 2008 , 113,		31
81	Modeling framework for sediment deposition, storage, and evacuation in the floodplain of a meandering river: Theory. <i>Water Resources Research</i> , 2008 , 44,	5-4	32
80	Modeling framework for sediment deposition, storage, and evacuation in the floodplain of a meandering river: Application to the Clark Fork River, Montana. <i>Water Resources Research</i> , 2008 , 44,	5-4	22
79	Experimental study of bedrock channel alluviation under varied sediment supply and hydraulic conditions. <i>Water Resources Research</i> , 2008 , 44,	5-4	85
78	Transport of Gravel and Sediment Mixtures 2008 , 165-251		156
77	Effect of Seepage-Induced Nonhydrostatic Pressure Distribution on Bed-Load Transport and Bed Morphodynamics. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 378-389	1-8	29
76	Net local removal of floodplain sediment by river meander migration. <i>Geomorphology</i> , 2008 , 96, 123-149.	4-3	125
75	Physical basis for quasi-universal relations describing bankfull hydraulic geometry of single-thread gravel bed rivers. <i>Journal of Geophysical Research</i> , 2007 , 112,		284
74	Experiments on dispersion of tracer stones under lower-regime plane-bed equilibrium bed load transport. <i>Water Resources Research</i> , 2007 , 43,	5-4	106
73	Numerical model linking bed and bank evolution of incisional channel created by dam removal. <i>Water Resources Research</i> , 2007 , 43,	5-4	61
72	10 Adjustment of the bed surface size distribution of gravel-bed rivers in response to cycled hydrographs. <i>Developments in Earth Surface Processes</i> , 2007 , 241-285	2-8	26
71	Note on the Analysis of Plunging of Density Flows. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 690-694	1-8	21
70	Dam Removal Express Assessment Models (DREAM). <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 308-323	1-9	38
69	The response of turbidity currents to a canyon-ban transition: internal hydraulic jumps and depositional signatures. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 631-653	1-9	109

68	Dam Removal Express Assessment Models (DREAM).. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 291-307	1.9	95
67	Reanalysis and Correction of Bed-Load Relation of Meyer-Peter and Müller Using Their Own Database. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 1159-1168	1.8	384
66	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Formulation and Theory. <i>Journal of Sedimentary Research</i> , 2006 , 76, 783-797	2.1	31
65	Depositional Turbidity Currents in Diapiric Minibasins on the Continental Slope: Experiments--Numerical Simulation and Upscaling. <i>Journal of Sedimentary Research</i> , 2006 , 76, 798-818	2.1	27
64	Vertical sorting and the morphodynamics of bed-form-dominated rivers: An equilibrium sorting model. <i>Journal of Geophysical Research</i> , 2006 , 111,		26
63	Experiments on the effect of hydrograph characteristics on vertical grain sorting in gravel bed rivers. <i>Water Resources Research</i> , 2006 , 42,	5.4	120
62	One-dimensional modeling of bed evolution in a gravel bed river subject to a cycled flood hydrograph. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		46
61	Channel formation by flow stripping: large-scale scour features along the Monterey East Channel and their relation to sediment waves. <i>Sedimentology</i> , 2006 , 53, 1265-1287	3.3	200
60	Theory for a clinoform of permanent form on a continental margin emplaced by weak, dilute muddy turbidity currents 2006 ,		4
59	Modeling downstream fining in sand-bed rivers. I: formulation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005 , 43, 613-620	1.9	20
58	More on the evolution of bed material waves in alluvial rivers. <i>Earth Surface Processes and Landforms</i> , 2005 , 30, 107-114	3.7	34
57	Probabilistic formulation of conservation of cosmogenic nuclides: effect of surface elevation fluctuations on approach to steady state. <i>Earth Surface Processes and Landforms</i> , 2005 , 30, 1127-1144	3.7	16
56	Transportational cyclic steps created by flow over an erodible bed. Part 2. Theory and numerical simulation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005 , 43, 502-514	1.9	53
55	Transportational cyclic steps created by flow over an erodible bed. Part 1. Experiments. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005 , 43, 488-501	1.9	67
54	Density Stratification Effects in Sand-Bed Rivers. <i>Journal of Hydraulic Engineering</i> , 2004 , 130, 783-795	1.8	71
53	Flow Resistance and Suspended Load in Sand-Bed Rivers: Simplified Stratification Model. <i>Journal of Hydraulic Engineering</i> , 2004 , 130, 796-805	1.8	116
52	Vertical sorting and the morphodynamics of bed form-dominated rivers: A modeling framework. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		47
51	Experiments on upstream-migrating erosional narrowing and widening of an incisional channel caused by dam removal. <i>Water Resources Research</i> , 2004 , 40,	5.4	65

50	Bed load at low Shields stress on arbitrarily sloping beds: Alternative entrainment formulation. <i>Water Resources Research</i> , 2003 , 39,	5.4	92
49	Sediment pulses in mountain rivers: 1. Experiments. <i>Water Resources Research</i> , 2003 , 39,	5.4	88
48	Progradational sand-mud deltas in lakes and reservoirs. Part 1. Theory and numerical modeling. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003 , 41, 127-140	1.9	61
47	Effect of Floodwater Extraction on Mountain Stream Morphology. <i>Journal of Hydraulic Engineering</i> , 2003 , 129, 885-895	1.8	93
46	Distinguishing sediment waves from slope failure deposits: field examples, including the Humboldt slide and modelling results. <i>Marine Geology</i> , 2002 , 192, 79-104	3.3	165
45	Experiments on incipient channelization of submarine fans. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2002 , 40, 21-32	1.9	21
44	Fluvial fan deltas: Linking channel processes with large-scale morphodynamics. <i>Water Resources Research</i> , 2002 , 38, 26-1-26-10	5.4	57
43	Bed load at low Shields stress on arbitrarily sloping beds: Failure of the Bagnold hypothesis. <i>Water Resources Research</i> , 2002 , 38, 31-1-31-16	5.4	99
42	The dominance of dispersion in the evolution of bed material waves in gravel-bed rivers. <i>Earth Surface Processes and Landforms</i> , 2001 , 26, 1409-1420	3.7	185
41	Fluvio-deltaic sedimentation: A generalized Stefan problem. <i>European Journal of Applied Mathematics</i> , 2000 , 11, 433-452	1	122
40	Purely erosional cyclic and solitary steps created by flow over a cohesive bed. <i>Journal of Fluid Mechanics</i> , 2000 , 419, 203-238	3.7	103
39	Linear stability analysis of channel inception: downstream-driven theory. <i>Journal of Fluid Mechanics</i> , 2000 , 419, 239-262	3.7	79
38	Probabilistic Exner Sediment Continuity Equation for Mixtures with No Active Layer. <i>Journal of Hydraulic Engineering</i> , 2000 , 126, 818-826	1.8	146
37	The Influence of Transport Fluctuations on Spatially Averaged Topography on a Sandy, Braided Fluvial Fan 1999 ,		13
36	The arrested gravel front: stable gravel-sand transitions in rivers Part 1: Simplified analytical solution. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1998 , 36, 75-100	1.9	58
35	The arrested gravel front: stable gravel-sand transitions in rivers Part 2: General numerical solution. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1998 , 36, 159-182	1.9	64
34	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. I: Theory. <i>Journal of Hydraulic Engineering</i> , 1998 , 124, 985-995	1.8	167
33	Alluvial Fans Formed by Channelized Fluvial and Sheet Flow. II: Application. <i>Journal of Hydraulic Engineering</i> , 1998 , 124, 996-1004	1.8	47

32	Channel Dynamics, Sediment Transport, and the Slope of Alluvial Fans: Experimental Study. <i>Journal of Geology</i> , 1998 , 106, 677-694	2	126
31	Nearly pure sorting waves and formation of bedload sheets. <i>Journal of Fluid Mechanics</i> , 1996 , 312, 253-278	3.7	43
30	Transfer function for the deposition of poorly sorted gravel in response to streambed aggradation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1996 , 34, 35-53	1.9	94
29	Inception of channelization and drainage basin formation: upstream-driven theory. <i>Journal of Fluid Mechanics</i> , 1995 , 283, 341-363	3.7	94
28	A new vectorial bedload formulation and its application to the time evolution of straight river channels. <i>Journal of Fluid Mechanics</i> , 1994 , 267, 153-183	3.7	168
27	Experiments on the entrainment of sediment into suspension by a dense bottom current. <i>Journal of Geophysical Research</i> , 1993 , 98, 4793-4807		177
26	Bed-Load Transport on Transverse Slope. I. <i>Journal of Hydraulic Engineering</i> , 1992 , 118, 513-535	1.8	86
25	Downstream fining by selective deposition in a laboratory flume. <i>Science</i> , 1992 , 258, 1757-60	33.3	179
24	Shock Fitting of Aggradational Profiles Due to Backwater. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 1129-1144	1.8	29
23	Selective Sorting and Abrasion of River Gravel. I: Theory. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 131-147	1.8	235
22	Selective Sorting and Abrasion of River Gravel. II: Applications. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 150-171	1.8	163
21	Entrainment of Bed Sediment into Suspension. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 414-435	1.8	356
20	Fluvial armor. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1990 , 28, 529-544	1.9	154
19	Surface-based bedload transport relation for gravel rivers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1990 , 28, 417-436	1.9	562
18	Linear theory of river meanders. <i>Water Resources Monograph</i> , 1989 , 181-213		178
17	Secondary Flow in Mildly Sinuous Channel. <i>Journal of Hydraulic Engineering</i> , 1989 , 115, 289-308	1.8	99
16	Experiments on turbidity currents over an erodible bed. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1987 , 25, 123-147	1.9	293
15	Simple Model of Sediment-Laden Flows. <i>Journal of Hydraulic Engineering</i> , 1986 , 112, 356-375	1.8	38

14	Self-accelerating turbidity currents. <i>Journal of Fluid Mechanics</i> , 1986 , 171, 145	3.7	467
13	On the time development of meander bends. <i>Journal of Fluid Mechanics</i> , 1986 , 162, 139	3.7	126
12	Meander Bends of High Amplitude. <i>Journal of Hydraulic Engineering</i> , 1983 , 109, 1323-1337	1.8	109
11	Bend theory of river meanders. Part 2. Nonlinear deformation of finite-amplitude bends. <i>Journal of Fluid Mechanics</i> , 1982 , 115, 303	3.7	130
10	Bedload and Size Distribution in Paved Gravel-Bed Streams. <i>Journal of Hydraulic Engineering</i> , 1982 , 108, 544-571		319
9	Bend theory of river meanders. Part 1. Linear development. <i>Journal of Fluid Mechanics</i> , 1981 , 112, 363	3.7	515
8	Self-formed straight rivers with equilibrium banks and mobile bed. Part 1. The sand-silt river. <i>Journal of Fluid Mechanics</i> , 1978 , 89, 109-125	3.7	220
7	Self-formed straight rivers with equilibrium banks and mobile bed. Part 2. The gravel river. <i>Journal of Fluid Mechanics</i> , 1978 , 89, 127-146	3.7	357
6	Basic Principles of River Hydraulics. <i>Journal of Hydraulic Engineering</i> , 1977 , 103, 1077-1087		14
5	On the cause and characteristic scales of meandering and braiding in rivers. <i>Journal of Fluid Mechanics</i> , 1976 , 76, 457	3.7	391
4	Meandering of supraglacial melt streams. <i>Water Resources Research</i> , 1975 , 11, 551-552	5.4	37
3	The Mechanics of Marine Sediment Gravity Flows 275-337		27
2	Prediction of Margin Stratigraphy 459-529		3
1	Macro-roughness model of bedrock-alluvial river morphodynamics		3