Jeremy G Venditti

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

84 papers	2,447 citations	28 h-index	47 g-index
97 ext. papers	2,896 ext. citations	5.5 avg, IF	5.48 L-index

#	Paper	IF	Citations
84	Is the critical Shields stress for incipient sediment motion dependent on channel-bed slope?. *Journal of Geophysical Research*, **2008**, 113,		291
83	Spectral analysis of turbulent flow and suspended sediment transport over fixed dunes. *Journal of Geophysical Research*, **2000**, 105, 22035-22047		127
82	Response of bed surface patchiness to reductions in sediment supply. *Journal of Geophysical Research*, **2009**, 114,		98
81	Bed form initiation from a flat sand bed. *Journal of Geophysical Research*, **2005**, 110,		89
80	Translation and dispersion of sediment pulses in flume experiments simulating gravel augmentation below dams. *Water Resources Research*, **2009**, 45,	5.4	88
79	Morphodynamics of small-scale superimposed sand waves over migrating dune bed forms. *Water Resources Research*, **2005**, 41,	5.4	80
78	Mobilization of coarse surface layers in gravel-bedded rivers by finer gravel bed load. *Water Resources Research*, **2010**, 46,	5.4	78
77	Reevaluating dune scaling relations. *Earth-Science Reviews*, **2017**, 165, 356-376	10.2	73
76	On the transition between 2D and 3D dunes. *Sedimentology*, **2005**, 52, 1343-1359	3.3	69
75	Experimental evidence for the effect of hydrographs on sediment pulse dynamics in gravel-bedded rivers. *Water Resources Research*, **2012**, 48,	5.4	64
74	Effect of sediment pulse grain size on sediment transport rates and bed mobility in gravel bed rivers. *Journal of Geophysical Research*, **2010**, 115,		64
73	Turbulent flow and drag over fixed two- and three-dimensional dunes. *Journal of Geophysical Research*, **2007**, 112,		63
72	Turbulent flow over a dune: Green River, Colorado. *Earth Surface Processes and Landforms*, **2005**, 30, 289-304	3.7	62
71	Alternate bar response to sediment supply termination. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		60
70	Reconstructing a sediment pulse: Modeling the effect of placer mining on Fraser River, Canada. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 1436-1454	3.8	58
69	Morphology and controls on the position of a gravel-sand transition: Fraser River, British Columbia. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 1959-1976	3.8	52
68	The 2015 landslide and tsunami in Taan Fiord, Alaska. *Scientific Reports*, **2018**, 8, 12993	4.9	52

67	Bed topography and the development of forced bed surface patches. *Journal of Geophysical Research*, **2010**, 115,		47
66	Flow in bedrock canyons. *Nature*, **2014**, 513, 534-7	50.4	46
65	Flow structure and resistance over subaquaeous high- and low-angle dunes. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 545-564	3.8	42
64	The grain size gap and abrupt gravel-sand transitions in rivers due to suspension fallout. *Geophysical Research Letters*, **2016**, 43, 3777-3785	4.9	41
63	Sediment transport and shear stress partitioning in a vegetated flow. *Water Resources Research*, **2015**, 51, 2901-2922	5.4	40
62	Sedimentation Across the Tidal-Fluvial Transition in the Lower Fraser River, Canada. *The Sedimentary Record*, **2012**, 10, 4-9	3.3	38
61	The gravel-sand transition: Sediment dynamics in a diffuse extension. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 943-963	3.8	37
60	Robust classification for the joint velocity-intermittency structure of turbulent flow over fixed and mobile bedforms. *Earth Surface Processes and Landforms*, **2014**, 39, 1717-1728	3.7	33
59	Flow and sediment suspension events over low-angle dunes: Fraser Estuary, Canada. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1693-1709	3.8	29
58	On interfacial instability as a cause of transverse subcritical bed forms. *Water Resources Research*, **2006**, 42,	5.4	29
57	Efficacy of bedrock erosion by subglacial water flow. *Earth Surface Dynamics*, **2016**, 4, 125-145	3.8	29
56	Transport Scaling of Dune Dimensions in Shallow Flows. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 526-547	3.8	26
55	Variability in bedform morphology and kinematics with transport stage. *Sedimentology*, **2016**, 63, 1017-1040	3.3	26
54	Response of low-angle dunes to variable flow. *Sedimentology*, **2016**, 63, 743-760	3.3	26
53	The trouble with shear stress. *Geomorphology*, **2018**, 323, 41-50	4.3	26
52	Vegetation-driven morphodynamic adjustments of a sand bed. *Geophysical Research Letters*, **2014**, 41, 3876-3883	4.9	24
51	Submarine Deposition of a Subaerial Landslide in Taan Fiord, Alaska. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 2443-2463	3.8	24
50	Use of ADCPs for suspended sediment transport monitoring: An empirical approach. *Water Resources Research*, **2016**, 52, 2715-2736	5.4	23

49	Observations of Coherent Flow Structures Over Subaqueous High- and Low- Angle Dunes. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 2244-2268	3.8	20
48	Bedforms, Structures, Patches, and Sediment Supply in Gravel-Bed Rivers **2017**, 439-466		18
47	The Growth of Dunes in Rivers. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 548-566	3.8	18
46	Simulating Sediment Transport in a Flume with Forced Pool-Riffle Morphology: Examinations of Two One-Dimensional Numerical Models. *Journal of Hydraulic Engineering*, **2008**, 134, 892-904	1.8	18
45	Critical Reflections on the Coherent Flow Structures Paradigm in Aeolian Geomorphology **2013**, 111-134		17
44	Modeling Sediment Transport in Ice-Walled Subglacial Channels and Its Implications for Esker Formation and Proglacial Sediment Yields. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 3206-3227	3.8	17
43	Mud in rivers transported as flocculated and suspended bed material. *Nature Geoscience*, **2020**, 13, 566-570	18.3	15
42	Excavation of subglacial bedrock channels by seasonal meltwater flow. *Earth Surface Processes and Landforms*, **2018**, 43, 1960-1972	3.7	14
41	Bedform spurs: a result of a trailing helical vortex wake. *Sedimentology*, **2018**, 65, 191-208	3.3	14
40	Estimating suspended sediment concentrations in areas with limited hydrological data using a mixed-effects model. *Hydrological Processes*, **2012**, 26, 3678-3688	3.3	14
39	Coherent Flow Structures, Initiation of Motion, Sediment Transport and Morphological Feedbacks in Rivers **2013**, 289-307		13
38	Representative point-integrated suspended sediment sampling in rivers. *Water Resources Research*, **2017**, 53, 2956-2971	5.4	12
37	An empirical model of subcritical bedform migration. *Sedimentology*, **2013**, 60, 1786-1799	3.3	12
36	Why do large, deep rivers have low-angle dune beds?. *Geology*, **2019**, 47, 919-922	5	11
35	Suspended sediment transport in Fraser River at Mission, British Columbia: New observations and comparison to historical records. *Canadian Water Resources Journal*, **2014**, 39, 356-371	1.7	11
34	Calculation of in situ acoustic sediment attenuation using off-the-shelf horizontal ADCPs in low concentration settings. *Water Resources Research*, **2017**, 53, 5017-5037	5.4	11
33	Struggles with stream power: Connecting theory across scales. *Geomorphology*, **2020**, 366, 106817	4.3	10
32	A Mechanistic Model for Lateral Erosion of Bedrock Channel Banks by Bedload Particle Impacts. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2019JF005509	3.8	9

31	Structure of Turbulent Boundary Layers **2013**, 17-24		9
30	The Role of Three-Dimensional Boundary Stresses in Limiting the Occurrence and Size of Experimental Landslides. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 46-65	3.8	9
29	Entrainment and suspension of sand and gravel. *Earth Surface Dynamics*, **2020**, 8, 485-504	3.8	8
28	What is a Coherent Flow Structure in Geophysical Flow? **2013**, 1-16		8
27	Comparing the behaviour of spherical beads and natural grains in bedload mixtures. *Earth Surface Processes and Landforms*, **2020**, 45, 831-840	3.7	7
26	Modeling grain size adjustments in the downstream reach following run-of-river development. *Water Resources Research*, **2016**, 52, 2770-2788	5.4	7
25	Rock Control of River Geometry: The Fraser Canyons. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 1860-1878	3.8	7
24	Experimental Insights Into the Threshold of Motion in Alluvial Channels: Sediment Supply and Streambed State. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2020JF005736	3.8	7
23	Earth science: Megafloods downsized. *Nature*, **2016**, 538, 174-175	50.4	7
22	Sediment dynamics across gravel-sand transitions: Implications for river stability and floodplain recycling. *Geology*, **2020**, 48, 468-472	5	6
21	Experiments on the morphological controls of velocity inversions in bedrock canyons. *Earth Surface Processes and Landforms*, **2018**, 43, 654-668	3.7	6
20	Evaluating Uncertainty in Physical Habitat Modelling in a High-Gradient Mountain Stream. *River Research and Applications*, **2016**, 32, 1106-1115	2.3	6
19	Intermittent Suspension and Transport of Fine Sediment Over Natural Tidal Bedforms **2013**, 231-242		6
18	Catastrophic landscape modification from a massive landslide tsunami in Taan Fiord, Alaska. *Geomorphology*, **2020**, 353, 107029	4.3	6
17	Modelling changes in suspended sediment from forest road surfaces in a coastal watershed of British Columbia. *Hydrological Processes*, **2014**, 28, 4914-4927	3.3	5
16	Supply-limited bedform patterns and scaling downstream of a gravel–sand transition. *Sedimentology*, **2019**, 66, 2538-2556	3.3	4
15	Crestline bifurcation and dynamics in fluvially-dominated, tidally-influenced flow. *Sedimentology*, **2018**, 65, 2621-2636	3.3	4
14	From Macroturbulent Flow Structures to Large-Scale Flow Pulsations in Gravel-Bed Rivers **2013**, 261-274		4

13	Effect of Migrating Bed Topography on Flow Turbulence: Implications for Modelling Sediment Transport **2013**, 323-339		3
12	An Analytical Model for Lateral Erosion From Saltating Bedload Particle Impacts. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2020JF006061	3.8	3
11	Instabilities in Stratified Shear Flow **2013**, 63-71		2
10	Application of Multifrequency Acoustic Inversions Using Three Horizontally Profiling ADCPs. *Water Resources Research*, **2020**, 56, e2019WR025298	5.4	2
9	Why do large, deep rivers have low-angle dune beds?: REPLY. *Geology*, **2020**, 48, e506-e506	5	2
8	Are Results in Geomorphology Reproducible?. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2020JF005553	3.8	2
7	The Influence of Slipface Angle on Fluvial Dune Growth. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2020JF005959	3.8	2
6	Shore-based monitoring of flow dynamics in a steep bedrock canyon river. *E3S Web of Conferences*, **2018**, 40, 06025	0.5	2
5	On the Structure of Wall Turbulence in the Thermally Neutral Atmospheric Surface Layer **2013**, 97-109		1
4	Mechanisms of Dune Growth and Decay in Rivers. *Geophysical Research Letters*, **2021**, 48, e2021GL094572	4.9	1
3	The Influence of Riparian Vegetation on the Sinuosity and Lateral Stability of Meandering Channels. *Geophysical Research Letters*, **2022**, 49,	4.9	0
2	The gravel-sand transition and grain size gap in river bed sediments. *Earth-Science Reviews*, **2021**, 222, 103838	10.2	0
1	The Impact of Intermittency on Bed Load Sediment Transport. *Geophysical Research Letters*, **2022**, 49,	4.9	0