

Jeremy G Venditti

List of Publications by Year in Descending Order

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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	The Influence of Riparian Vegetation on the Sinuosity and Lateral Stability of Meandering Channels. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
83	The Impact of Intermittency on Bed Load Sediment Transport. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
82	The gravel-sand transition and grain size gap in river bed sediments. <i>Earth-Science Reviews</i> , 2021 , 222, 103838	10.2	0
81	The Influence of Slipface Angle on Fluvial Dune Growth. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF005959	3.8	2
80	An Analytical Model for Lateral Erosion From Saltating Bedload Particle Impacts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF006061	3.8	3
79	Mechanisms of Dune Growth and Decay in Rivers. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094574	4.9	1
78	Entrainment and suspension of sand and gravel. <i>Earth Surface Dynamics</i> , 2020 , 8, 485-504	3.8	8
77	Mud in rivers transported as flocculated and suspended bed material. <i>Nature Geoscience</i> , 2020 , 13, 566-570	7.0	15
76	Sediment dynamics across gravel-sand transitions: Implications for river stability and floodplain recycling. <i>Geology</i> , 2020 , 48, 468-472	5	6
75	Comparing the behaviour of spherical beads and natural grains in bedload mixtures. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 831-840	3.7	7
74	A Mechanistic Model for Lateral Erosion of Bedrock Channel Banks by Bedload Particle Impacts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005509	3.8	9
73	Application of Multifrequency Acoustic Inversions Using Three Horizontally Profiling ADCPs. <i>Water Resources Research</i> , 2020 , 56, e2019WR025298	5.4	2
72	Catastrophic landscape modification from a massive landslide tsunami in Taan Fiord, Alaska. <i>Geomorphology</i> , 2020 , 353, 107029	4.3	6
71	Why do large, deep rivers have low-angle dune beds?: REPLY. <i>Geology</i> , 2020 , 48, e506-e506	5	2
70	Are Results in Geomorphology Reproducible?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005553	3.8	2
69	Experimental Insights Into the Threshold of Motion in Alluvial Channels: Sediment Supply and Streambed State. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005736	3.8	7
68	Struggles with stream power: Connecting theory across scales. <i>Geomorphology</i> , 2020 , 366, 106817	4.3	10

67	Why do large, deep rivers have low-angle dune beds?. <i>Geology</i> , 2019 , 47, 919-922	5	11
66	Transport Scaling of Dune Dimensions in Shallow Flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 526-547	3.8	26
65	The Growth of Dunes in Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 548-566	3.8	18
64	Supply-limited bedform patterns and scaling downstream of a gravel-bed transition. <i>Sedimentology</i> , 2019 , 66, 2538-2556	3.3	4
63	Excavation of subglacial bedrock channels by seasonal meltwater flow. <i>Earth Surface Processes and Landforms</i> , 2018 , 43, 1960-1972	3.7	14
62	Crestline bifurcation and dynamics in fluvially-dominated, tidally-influenced flow. <i>Sedimentology</i> , 2018 , 65, 2621-2636	3.3	4
61	Bedform spurs: a result of a trailing helical vortex wake. <i>Sedimentology</i> , 2018 , 65, 191-208	3.3	14
60	Experiments on the morphological controls of velocity inversions in bedrock canyons. <i>Earth Surface Processes and Landforms</i> , 2018 , 43, 654-668	3.7	6
59	Rock Control of River Geometry: The Fraser Canyons. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 1860-1878	3.8	7
58	The Role of Three-Dimensional Boundary Stresses in Limiting the Occurrence and Size of Experimental Landslides. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 46-65	3.8	9
57	Shore-based monitoring of flow dynamics in a steep bedrock canyon river. <i>E3S Web of Conferences</i> , 2018 , 40, 06025	0.5	2
56	Modeling Sediment Transport in Ice-Walled Subglacial Channels and Its Implications for Esker Formation and Proglacial Sediment Yields. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 3206-3227	3.8	17
55	Submarine Deposition of a Subaerial Landslide in Taan Fiord, Alaska. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 2443-2463	3.8	24
54	The trouble with shear stress. <i>Geomorphology</i> , 2018 , 323, 41-50	4.3	26
53	The 2015 landslide and tsunami in Taan Fiord, Alaska. <i>Scientific Reports</i> , 2018 , 8, 12993	4.9	52
52	Reevaluating dune scaling relations. <i>Earth-Science Reviews</i> , 2017 , 165, 356-376	10.2	73
51	Bedforms, Structures, Patches, and Sediment Supply in Gravel-Bed Rivers 2017 , 439-466		18
50	Representative point-integrated suspended sediment sampling in rivers. <i>Water Resources Research</i> , 2017 , 53, 2956-2971	5.4	12

49	Observations of Coherent Flow Structures Over Subaqueous High- and Low- Angle Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 2244-2268	3.8	20
48	Calculation of in situ acoustic sediment attenuation using off-the-shelf horizontal ADCPs in low concentration settings. <i>Water Resources Research</i> , 2017 , 53, 5017-5037	5.4	11
47	The grain size gap and abrupt gravel-sand transitions in rivers due to suspension fallout. <i>Geophysical Research Letters</i> , 2016 , 43, 3777-3785	4.9	41
46	Modeling grain size adjustments in the downstream reach following run-of-river development. <i>Water Resources Research</i> , 2016 , 52, 2770-2788	5.4	7
45	Evaluating Uncertainty in Physical Habitat Modelling in a High-Gradient Mountain Stream. <i>River Research and Applications</i> , 2016 , 32, 1106-1115	2.3	6
44	Variability in bedform morphology and kinematics with transport stage. <i>Sedimentology</i> , 2016 , 63, 1017-1040	3.4	26
43	Efficacy of bedrock erosion by subglacial water flow. <i>Earth Surface Dynamics</i> , 2016 , 4, 125-145	3.8	29
42	Response of low-angle dunes to variable flow. <i>Sedimentology</i> , 2016 , 63, 743-760	3.3	26
41	Use of ADCPs for suspended sediment transport monitoring: An empirical approach. <i>Water Resources Research</i> , 2016 , 52, 2715-2736	5.4	23
40	Flow structure and resistance over subaqueous high- and low-angle dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 545-564	3.8	42
39	Earth science: Megafloods downsized. <i>Nature</i> , 2016 , 538, 174-175	50.4	7
38	Reconstructing a sediment pulse: Modeling the effect of placer mining on Fraser River, Canada. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 1436-1454	3.8	58
37	The gravel-sand transition: Sediment dynamics in a diffuse extension. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 943-963	3.8	37
36	Sediment transport and shear stress partitioning in a vegetated flow. <i>Water Resources Research</i> , 2015 , 51, 2901-2922	5.4	40
35	Robust classification for the joint velocity-intermittency structure of turbulent flow over fixed and mobile bedforms. <i>Earth Surface Processes and Landforms</i> , 2014 , 39, 1717-1728	3.7	33
34	Flow in bedrock canyons. <i>Nature</i> , 2014 , 513, 534-7	50.4	46
33	Vegetation-driven morphodynamic adjustments of a sand bed. <i>Geophysical Research Letters</i> , 2014 , 41, 3876-3883	4.9	24
32	Suspended sediment transport in Fraser River at Mission, British Columbia: New observations and comparison to historical records. <i>Canadian Water Resources Journal</i> , 2014 , 39, 356-371	1.7	11

31	Morphology and controls on the position of a gravel-sand transition: Fraser River, British Columbia. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 1959-1976	3.8	52
30	Modelling changes in suspended sediment from forest road surfaces in a coastal watershed of British Columbia. <i>Hydrological Processes</i> , 2014 , 28, 4914-4927	3.3	5
29	What is a Coherent Flow Structure in Geophysical Flow? 2013 , 1-16		8
28	Structure of Turbulent Boundary Layers 2013 , 17-24		9
27	On the Structure of Wall Turbulence in the Thermally Neutral Atmospheric Surface Layer 2013 , 97-109		1
26	Instabilities in Stratified Shear Flow 2013 , 63-71		2
25	Coherent Flow Structures, Initiation of Motion, Sediment Transport and Morphological Feedbacks in Rivers 2013 , 289-307		13
24	Critical Reflections on the Coherent Flow Structures Paradigm in Aeolian Geomorphology 2013 , 111-134		17
23	From Macroturbulent Flow Structures to Large-Scale Flow Pulsations in Gravel-Bed Rivers 2013 , 261-274		4
22	Effect of Migrating Bed Topography on Flow Turbulence: Implications for Modelling Sediment Transport 2013 , 323-339		3
21	Intermittent Suspension and Transport of Fine Sediment Over Natural Tidal Bedforms 2013 , 231-242		6
20	An empirical model of subcritical bedform migration. <i>Sedimentology</i> , 2013 , 60, 1786-1799	3.3	12
19	Flow and sediment suspension events over low-angle dunes: Fraser Estuary, Canada. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 1693-1709	3.8	29
18	Estimating suspended sediment concentrations in areas with limited hydrological data using a mixed-effects model. <i>Hydrological Processes</i> , 2012 , 26, 3678-3688	3.3	14
17	Experimental evidence for the effect of hydrographs on sediment pulse dynamics in gravel-bedded rivers. <i>Water Resources Research</i> , 2012 , 48,	5.4	64
16	Alternate bar response to sediment supply termination. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
15	Sedimentation Across the Tidal-Fluvial Transition in the Lower Fraser River, Canada. <i>The Sedimentary Record</i> , 2012 , 10, 4-9	3.3	38
14	Effect of sediment pulse grain size on sediment transport rates and bed mobility in gravel bed rivers. <i>Journal of Geophysical Research</i> , 2010 , 115,		64

13	Mobilization of coarse surface layers in gravel-bedded rivers by finer gravel bed load. <i>Water Resources Research</i> , 2010 , 46,	5.4	78
12	Bed topography and the development of forced bed surface patches. <i>Journal of Geophysical Research</i> , 2010 , 115,		47
11	Response of bed surface patchiness to reductions in sediment supply. <i>Journal of Geophysical Research</i> , 2009 , 114,		98
10	Translation and dispersion of sediment pulses in flume experiments simulating gravel augmentation below dams. <i>Water Resources Research</i> , 2009 , 45,	5.4	88
9	Is the critical Shields stress for incipient sediment motion dependent on channel-bed slope?. <i>Journal of Geophysical Research</i> , 2008 , 113,		291
8	Simulating Sediment Transport in a Flume with Forced Pool-Riffle Morphology: Examinations of Two One-Dimensional Numerical Models. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 892-904	1.8	18
7	Turbulent flow and drag over fixed two- and three-dimensional dunes. <i>Journal of Geophysical Research</i> , 2007 , 112,		63
6	On interfacial instability as a cause of transverse subcritical bed forms. <i>Water Resources Research</i> , 2006 , 42,	5.4	29
5	Bed form initiation from a flat sand bed. <i>Journal of Geophysical Research</i> , 2005 , 110,		89
4	Morphodynamics of small-scale superimposed sand waves over migrating dune bed forms. <i>Water Resources Research</i> , 2005 , 41,	5.4	80
3	On the transition between 2D and 3D dunes. <i>Sedimentology</i> , 2005 , 52, 1343-1359	3.3	69
2	Turbulent flow over a dune: Green River, Colorado. <i>Earth Surface Processes and Landforms</i> , 2005 , 30, 289-304	3.7	62
1	Spectral analysis of turbulent flow and suspended sediment transport over fixed dunes. <i>Journal of Geophysical Research</i> , 2000 , 105, 22035-22047		127