

Jeremy G Venditti

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,345
citations

126907

33
h-index

155660

55
g-index

97
all docs

97
docs citations

97
times ranked

2186
citing authors

#	ARTICLE	IF	CITATIONS
1	Is the critical Shields stress for incipient sediment motion dependent on channel bed slope?. Journal of Geophysical Research, 2008, 113, .	3.3	364
2	Spectral analysis of turbulent flow and suspended sediment transport over fixed dunes. Journal of Geophysical Research, 2000, 105, 22035-22047.	3.3	142
3	Response of bed surface patchiness to reductions in sediment supply. Journal of Geophysical Research, 2009, 114, .	3.3	116
4	Bed form initiation from a flat sand bed. Journal of Geophysical Research, 2005, 110, .	3.3	106
5	Reevaluating dune scaling relations. Earth-Science Reviews, 2017, 165, 356-376.	9.1	103
6	Morphodynamics of small-scale superimposed sand waves over migrating dune bed forms. Water Resources Research, 2005, 41, .	4.2	102
7	Translation and dispersion of sediment pulses in flume experiments simulating gravel augmentation below dams. Water Resources Research, 2009, 45, .	4.2	99
8	Mobilization of coarse surface layers in gravel bedded rivers by finer gravel bed load. Water Resources Research, 2010, 46, .	4.2	98
9	The 2015 landslide and tsunami in Taan Fiord, Alaska. Scientific Reports, 2018, 8, 12993.	3.3	89
10	On the transition between 2D and 3D dunes. Sedimentology, 2005, 52, 1343-1359.	3.1	87
11	Turbulent flow over a dune: Green River, Colorado. Earth Surface Processes and Landforms, 2005, 30, 289-304.	2.5	78
12	Effect of sediment pulse grain size on sediment transport rates and bed mobility in gravel bed rivers. Journal of Geophysical Research, 2010, 115, .	3.3	77
13	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.	2.8	74
14	Turbulent flow and drag over fixed two- and three-dimensional dunes. Journal of Geophysical Research, 2007, 112, .	3.3	73
15	Experimental evidence for the effect of hydrographs on sediment pulse dynamics in gravel bedded rivers. Water Resources Research, 2012, 48, .	4.2	73
16	Alternate bar response to sediment supply termination. Journal of Geophysical Research, 2012, 117, .	3.3	73
17	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.	2.8	67
18	Flow in bedrock canyons. Nature, 2014, 513, 534-537.	27.8	62

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19	Flow structure and resistance over subaqueous high- and low-angle dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 545-564.	2.8	60
20	The grain size gap and abrupt gravel-sand transitions in rivers due to suspension fallout. <i>Geophysical Research Letters</i> , 2016, 43, 3777-3785.	4.0	60
21	Sediment transport and shear stress partitioning in a vegetated flow. <i>Water Resources Research</i> , 2015, 51, 2901-2922.	4.2	58
22	Mud in rivers transported as flocculated and suspended bed material. <i>Nature Geoscience</i> , 2020, 13, 566-570.	12.9	55
23	Bed topography and the development of forced bed surface patches. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	54
24	Sedimentation Across the Tidal-Fluvial Transition in the Lower Fraser River, Canada. <i>The Sedimentary Record</i> , 2012, 10, 4-9.	0.6	51
25	The gravel-sand transition: Sediment dynamics in a diffuse extension. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 943-963.	2.8	47
26	The trouble with shear stress. <i>Geomorphology</i> , 2018, 323, 41-50.	2.6	45
27	Efficacy of bedrock erosion by subglacial water flow. <i>Earth Surface Dynamics</i> , 2016, 4, 125-145.	2.4	40
28	Transport Scaling of Dune Dimensions in Shallow Flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 526-547.	2.8	40
29	On interfacial instability as a cause of transverse subcritical bed forms. <i>Water Resources Research</i> , 2006, 42, .	4.2	39
30	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.	2.8	38
31	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.	2.5	38
32	Variability in bedform morphology and kinematics with transport stage. <i>Sedimentology</i> , 2016, 63, 1017-1040.	3.1	36
33	Use of ADCPs for suspended sediment transport monitoring: An empirical approach. <i>Water Resources Research</i> , 2016, 52, 2715-2736.	4.2	35
34	Response of low-angle dunes to variable flow. <i>Sedimentology</i> , 2016, 63, 743-760.	3.1	34
35	Entrainment and suspension of sand and gravel. <i>Earth Surface Dynamics</i> , 2020, 8, 485-504.	2.4	32
36	Vegetation-driven morphodynamic adjustments of a sand bed. <i>Geophysical Research Letters</i> , 2014, 41, 3876-3883.	4.0	31

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37	Submarine Deposition of a Subaerial Landslide in Taan Fiord, Alaska. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2443-2463.	2.8	29
38	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.	2.8	28
39	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.	2.8	28
40	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.	2.8	26
41	The Growth of Dunes in Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 548-566.	2.8	26
42	Excavation of subglacial bedrock channels by seasonal meltwater flow. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1960-1972.	2.5	24
43	Struggles with stream power: Connecting theory across scales. <i>Geomorphology</i> , 2020, 366, 106817.	2.6	21
44	Why do large, deep rivers have low-angle dune beds?. <i>Geology</i> , 2019, 47, 919-922.	4.4	20
45	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.	1.5	19
46	Calculation of in situ acoustic sediment attenuation using offshore shelf horizontal DCPs in low concentration settings. <i>Water Resources Research</i> , 2017, 53, 5017-5037.	4.2	19
47	An empirical model of subcritical bedform migration. <i>Sedimentology</i> , 2013, 60, 1786-1799.	3.1	18
48	Bedform spurs: a result of a trailing helical vortex wake. <i>Sedimentology</i> , 2018, 65, 191-208.	3.1	18
49	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.	2.8	18
50	Sediment dynamics across gravel-sand transitions: Implications for river stability and floodplain recycling. <i>Geology</i> , 2020, 48, 468-472.	4.4	18
51	Estimating suspended sediment concentrations in areas with limited hydrological data using a mixed-effects model. <i>Hydrological Processes</i> , 2012, 26, 3678-3688.	2.6	17
52	Representative point-integrated suspended sediment sampling in rivers. <i>Water Resources Research</i> , 2017, 53, 2956-2971.	4.2	17
53	Rock Control of River Geometry: The Fraser Canyons. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1860-1878.	2.8	17
54	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.	1.2	14

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55	The gravel-sand transition and grain size gap in river bed sediments. <i>Earth-Science Reviews</i> , 2021, 222, 103838.	9.1	14
56	Comparing the behaviour of spherical beads and natural grains in bedload mixtures. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 831-840.	2.5	13
57	Experiments on the morphological controls of velocity inversions in bedrock canyons. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 654-668.	2.5	12
58	Supply-limited bedform patterns and scaling downstream of a gravel-sand transition. <i>Sedimentology</i> , 2019, 66, 2538-2556.	3.1	12
59	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.	2.8	11
60	An Analytical Model for Lateral Erosion From Saltating Bedload Particle Impacts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006061.	2.8	10
61	The Influence of Riparian Vegetation on the Sinuosity and Lateral Stability of Meandering Channels. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
62	The Impact of Intermittency on Bed Load Sediment Transport. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
63	Megafloods downsized. <i>Nature</i> , 2016, 538, 174-175.	27.8	8
64	Modeling grain size adjustments in the downstream reach following runoff of river development. <i>Water Resources Research</i> , 2016, 52, 2770-2788.	4.2	8
65	Mechanisms of Dune Growth and Decay in Rivers. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094572.	4.0	8
66	Fluid-Driven Transport of Round Sediment Particles: From Discrete Simulations to Continuum Modeling. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	8
67	Evaluating Uncertainty in Physical Habitat Modelling in a High-Gradient Mountain Stream. <i>River Research and Applications</i> , 2016, 32, 1106-1115.	1.7	7
68	Modelling changes in suspended sediment from forest road surfaces in a coastal watershed of British Columbia. <i>Hydrological Processes</i> , 2014, 28, 4914-4927.	2.6	6
69	Crestline bifurcation and dynamics in fluvially-dominated, tidally-influenced flow. <i>Sedimentology</i> , 2018, 65, 2621-2636.	3.1	6
70	Catastrophic landscape modification from a massive landslide tsunami in Taan Fiord, Alaska. <i>Geomorphology</i> , 2020, 353, 107029.	2.6	6
71	The Influence of Slipface Angle on Fluvial Dune Growth. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005959.	2.8	6
72	Covariation in width and depth in bedrock rivers. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 1570-1582.	2.5	6

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73	Shore-based monitoring of flow dynamics in a steep bedrock canyon river. E3S Web of Conferences, 2018, 40, 06025.	0.5	4
74	Are Results in Geomorphology Reproducible?. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005553.	2.8	4
75	Bed and Bank Stress Partitioning in Bedrock Rivers. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	4
76	Experiments on Pool Formation in Bedrock Canyons. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	4
77	Application of Multifrequency Acoustic Inversions Using Three Horizontally Profiling ADCPs. Water Resources Research, 2020, 56, e2019WR025298.	4.2	3
78	Bedforms in Sand Bed Rivers. , 2022, , 222-254.		3
79	Why do large, deep rivers have low-angle dune beds?: REPLY. Geology, 2020, 48, e506-e506.	4.4	2
80	Amplification of plunging flows in bedrock canyons. Geophysical Research Letters, 0, , .	4.0	1