

Sean J Bennett

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,732
citations

159585

30
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

1964
citing authors

#	ARTICLE	IF	CITATIONS
1	A model for the entrainment and transport of sediment grains of mixed sizes, shapes, and densities. <i>Water Resources Research</i> , 1992, 28, 337-363.	4.2	257
2	Velocity structure, turbulence and fluid stresses in experimental gravity currents. <i>Journal of Geophysical Research</i> , 1999, 104, 5381-5391.	3.3	191
3	Using simulated emergent vegetation to alter stream flow direction within a straight experimental channel. <i>Geomorphology</i> , 2002, 44, 115-126.	2.6	140
4	Predicting head cut erosion and migration in concentrated flows typical of upland areas. <i>Water Resources Research</i> , 2002, 38, 39-1-39-15.	4.2	133
5	Experiments on headcut growth and migration in concentrated flows typical of upland areas. <i>Water Resources Research</i> , 2000, 36, 1911-1922.	4.2	116
6	Fluid and sediment dynamics of upper stage plane beds. <i>Journal of Geophysical Research</i> , 1998, 103, 1239-1274.	3.3	110
7	Bed form initiation from a flat sand bed. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	106
8	A depth-averaged two-dimensional model for flow, sediment transport, and bed topography in curved channels with riparian vegetation. <i>Water Resources Research</i> , 2005, 41, .	4.2	106
9	Effect of slope on the growth and migration of headcuts in rills. <i>Geomorphology</i> , 1999, 30, 273-290.	2.6	96
10	Modeling fluvial response to in-stream woody vegetation: implications for stream corridor restoration. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 890-909.	2.5	96
11	On the transition between 2D and 3D dunes. <i>Sedimentology</i> , 2005, 52, 1343-1359.	3.1	87
12	Assessment of soil erosion using RUSLE and GIS: a case study of the Yangou watershed in the Loess Plateau, China. <i>Environmental Earth Sciences</i> , 2015, 73, 1715-1724.	2.7	84
13	An empirical investigation of gully widening rates in upland concentrated flows. <i>Catena</i> , 2013, 101, 114-121.	5.0	78
14	Agricultural practices and sustainable livelihoods: Rural transformation within the Loess Plateau, China. <i>Applied Geography</i> , 2013, 41, 15-23.	3.7	78
15	Distorted Froude-scaled flume analysis of large woody debris. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 1265-1283.	2.5	72
16	Gully erosion processes, disciplinary fragmentation, and technological innovation. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 46-53.	2.5	58
17	Effect of initial step height on headcut development in upland concentrated flows. <i>Water Resources Research</i> , 2001, 37, 1475-1484.	4.2	55
18	Effect of soil texture, tailwater height, and pore-water pressure on the morphodynamics of migrating headcuts in upland concentrated flows. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1867-1877.	2.5	54

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19	Morphodynamics of Headcut Development and Soil Erosion in Upland Concentrated Flows. Soil Science Society of America Journal, 2009, 73, 521-530.	2.2	50
20	Turbulence suppression by suspended sediment within a geophysical flow. Environmental Fluid Mechanics, 2014, 14, 771-794.	1.6	49
21	Kinematics of flow within headcut scour holes on hillslopes. Water Resources Research, 2005, 41, .	4.2	47
22	An experimental study of flow, bedload transport and bed topography under conditions of erosion and deposition and comparison with theoretical models. Sedimentology, 1995, 42, 117-146.	3.1	44
23	Physical-scale model designs for engineered log jams in rivers. Journal of Hydro-Environment Research, 2014, 8, 115-128.	2.2	44
24	Emergence, persistence, and organization of rill networks on a soil-mantled experimental landscape. Natural Hazards, 2015, 79, 7-24.	3.4	42
25	A Measurement Method for Rill and Ephemeral Gully Erosion Assessments. Soil Science Society of America Journal, 2016, 80, 203-214.	2.2	42
26	Basin self-similarity, Hack's law, and the evolution of experimental rill networks. Geology, 2016, 44, 35-38.	4.4	42
27	Surface Wave Forces Acting on Submerged Logs. Journal of Hydraulic Engineering, 2002, 128, 349-353.	1.5	41
28	On interfacial instability as a cause of transverse subcritical bed forms. Water Resources Research, 2006, 42, .	4.2	39
29	Texture, spatial distribution, and rate of reservoir sedimentation within a highly erosive, cultivated watershed: Grenada Lake, Mississippi. Water Resources Research, 2005, 41, .	4.2	33
30	Effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment. Environmental Fluid Mechanics, 2015, 15, 1-25.	1.6	32
31	Turbulent flow and bed pressure within headcut scour holes due to plane reattached jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 510-521.	1.7	28
32	Effect of soil stratification on the development and migration of headcuts in upland concentrated flows. Water Resources Research, 2007, 43, .	4.2	27
33	Modulation of headcut soil erosion in rills due to upstream sediment loads. Water Resources Research, 2010, 46, .	4.2	27
34	Flow, turbulence, and drag associated with engineered log jams in a fixed-bed experimental channel. Geomorphology, 2015, 248, 172-184.	2.6	25
35	Riparian vegetation and fluvial geomorphology: Problems and opportunities. Water Science and Application, 2004, , 1-10.	0.3	22
36	ASSESSING SEDIMENTATION ISSUES WITHIN AGING FLOOD CONTROL RESERVOIRS IN OKLAHOMA. Journal of the American Water Resources Association, 2002, 38, 1307-1322.	2.4	21

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37	Modulation of near-bed hydrodynamics by freshwater mussels in an experimental channel. <i>Hydrobiologia</i> , 2018, 810, 449-463.	2.0	21
38	Response of a soilâ€mantled experimental landscape to exogenic forcing. <i>Water Resources Research</i> , 2012, 48, .	4.2	19
39	Trace Elements in Sediments of an Aging Reservoir in Rural Mississippi: Potential for Mobilization Following Dredging. <i>Water, Air, and Soil Pollution</i> , 2005, 163, 281-292.	2.4	16
40	Effect of multiyear drought on upland sediment yield and subsequent impacts on flood control reservoir storage. <i>Water Resources Research</i> , 2010, 46, .	4.2	14
41	Transformative geomorphic research using laboratory experimentation. <i>Geomorphology</i> , 2015, 244, 1-8.	2.6	14
42	Disaggregating soil erosion processes within an evolving experimental landscape. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 543-552.	2.5	14
43	Soil and sediment properties affecting the accumulation of mercury in a flood control reservoir. <i>Catena</i> , 2009, 79, 39-48.	5.0	12
44	Critical assessment of jet erosion test methodologies for cohesive soil and sediment. <i>Geomorphology</i> , 2017, 295, 529-536.	2.6	12
45	Modelling the effects of emergent vegetation on an open-channel flow using a lattice model. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 55, 655-672.	1.6	8
46	Reservoir Sedimentation and Environmental Degradation. <i>Journal of Environmental Quality</i> , 2007, 36, 815-825.	2.0	7
47	Linking upstream channel instability to downstream degradation: Grenada Lake and the Skuna and Yalobusha River Basins, Mississippi. <i>Ecohydrology</i> , 2009, 2, 235-247.	2.4	7
48	Effects of emergent riparian vegetation on spatially averaged and turbulent flow within an experimental channel. <i>Water Science and Application</i> , 2004, , 29-41.	0.3	6
49	Hydrodynamics of Confined Impinging Jets and the Assessment of Soil Erodibility. , 2015, , .		2
50	Experimental Design of the Submerged Jet Erosion Test for a Soil Erodibility Evaluation. , 2016, , .		0
51	Numerical simulation of wall shear stress downstream of a headcut. <i>Water Management</i> , 2021, 174, 15-26.	1.2	0