

# Sean J Bennett

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,732  
citations

159525

30  
h-index

206029

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.	1.7	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.	1.1	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.	1.7	133
5	Experiments on headcut growth and migration in concentrated flows typical of upland areas. <i>Water Resources Research</i> , 2000, 36, 1911-1922.	1.7	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, .	1.7	106
9	Effect of slope on the growth and migration of headcuts in rills. <i>Geomorphology</i> , 1999, 30, 273-290.	1.1	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.	1.2	96
11	On the transition between 2D and 3D dunes. <i>Sedimentology</i> , 2005, 52, 1343-1359.	1.6	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.	1.3	84
13	An empirical investigation of gully widening rates in upland concentrated flows. <i>Catena</i> , 2013, 101, 114-121.	2.2	78
14	Agricultural practices and sustainable livelihoods: Rural transformation within the Loess Plateau, China. <i>Applied Geography</i> , 2013, 41, 15-23.	1.7	78
15	Distorted Froude-scaled flume analysis of large woody debris. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 1265-1283.	1.2	72
16	Gully erosion processes, disciplinary fragmentation, and technological innovation. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 46-53.	1.2	58
17	Effect of initial step height on headcut development in upland concentrated flows. <i>Water Resources Research</i> , 2001, 37, 1475-1484.	1.7	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.	1.2	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.	1.2	50
20	Turbulence suppression by suspended sediment within a geophysical flow. Environmental Fluid Mechanics, 2014, 14, 771-794.	0.7	49
21	Kinematics of flow within headcut scour holes on hillslopes. Water Resources Research, 2005, 41, .	1.7	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.	1.6	44
23	Physical-scale model designs for engineered log jams in rivers. Journal of Hydro-Environment Research, 2014, 8, 115-128.	1.0	44
24	Emergence, persistence, and organization of rill networks on a soil-mantled experimental landscape. Natural Hazards, 2015, 79, 7-24.	1.6	42
25	A Measurement Method for Rill and Ephemeral Gully Erosion Assessments. Soil Science Society of America Journal, 2016, 80, 203-214.	1.2	42
26	Basin self-similarity, Hack's law, and the evolution of experimental rill networks. Geology, 2016, 44, 35-38.	2.0	42
27	Surface Wave Forces Acting on Submerged Logs. Journal of Hydraulic Engineering, 2002, 128, 349-353.	0.7	41
28	On interfacial instability as a cause of transverse subcritical bed forms. Water Resources Research, 2006, 42, .	1.7	39
29	Texture, spatial distribution, and rate of reservoir sedimentation within a highly erosive, cultivated watershed: Grenada Lake, Mississippi. Water Resources Research, 2005, 41, .	1.7	33
30	Effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment. Environmental Fluid Mechanics, 2015, 15, 1-25.	0.7	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.	0.7	28
32	Effect of soil stratification on the development and migration of headcuts in upland concentrated flows. Water Resources Research, 2007, 43, .	1.7	27
33	Modulation of headcut soil erosion in rills due to upstream sediment loads. Water Resources Research, 2010, 46, .	1.7	27
34	Flow, turbulence, and drag associated with engineered log jams in a fixed-bed experimental channel. Geomorphology, 2015, 248, 172-184.	1.1	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.	1.0	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.	1.0	21
38	Response of a soil-eroded experimental landscape to exogenic forcing. <i>Water Resources Research</i> , 2012, 48, .	1.7	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.	1.1	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, .	1.7	14
41	Transformative geomorphic research using laboratory experimentation. <i>Geomorphology</i> , 2015, 244, 1-8.	1.1	14
42	Disaggregating soil erosion processes within an evolving experimental landscape. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 543-552.	1.2	14
43	Soil and sediment properties affecting the accumulation of mercury in a flood control reservoir. <i>Catena</i> , 2009, 79, 39-48.	2.2	12
44	Critical assessment of jet erosion test methodologies for cohesive soil and sediment. <i>Geomorphology</i> , 2017, 295, 529-536.	1.1	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.	0.9	8
46	Reservoir Sedimentation and Environmental Degradation. <i>Journal of Environmental Quality</i> , 2007, 36, 815-825.	1.0	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.	1.1	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.	0.4	0