

Sean Bennett

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,819
citations

236925

25
h-index

276875

41
g-index

45
all docs

45
docs citations

45
times ranked

1454
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Fluid and sediment dynamics of upper stage plane beds. <i>Journal of Geophysical Research</i> , 1998, 103, 1239-1274.	3.3	110
3	Bed form initiation from a flat sand bed. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	106
4	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
5	Morphodynamics of small-scale superimposed sand waves over migrating dune bed forms. <i>Water Resources Research</i> , 2005, 41, .	4.2	102
6	CHARACTERISTICS OF ACTIVELY ERODING EPHEMERAL GULLIES IN AN EXPERIMENTAL CHANNEL. <i>Transactions of the American Society of Agricultural Engineers</i> , 2000, 43, 641-649.	0.9	97
7	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
8	On the transition between 2D and 3D dunes. <i>Sedimentology</i> , 2005, 52, 1343-1359.	3.1	87
9	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
10	Effects of Vegetation on Turbulence, Sediment Transport, and Stream Morphology. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 765-776.	1.5	64
11	Simulating Ephemeral Gully Erosion in AnnAGNPS. <i>Transactions of the ASABE</i> , 2007, 50, 857-866.	1.1	59
12	Gully erosion processes, disciplinary fragmentation, and technological innovation. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 46-53.	2.5	58
13	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
14	Morphodynamics of Headcut Development and Soil Erosion in Upland Concentrated Flows. <i>Soil Science Society of America Journal</i> , 2009, 73, 521-530.	2.2	50
15	Turbulence suppression by suspended sediment within a geophysical flow. <i>Environmental Fluid Mechanics</i> , 2014, 14, 771-794.	1.6	49
16	Kinematics of flow within headcut scour holes on hillslopes. <i>Water Resources Research</i> , 2005, 41, .	4.2	47
17	Emergence, persistence, and organization of rill networks on a soil-mantled experimental landscape. <i>Natural Hazards</i> , 2015, 79, 7-24.	3.4	42
18	A Measurement Method for Rill and Ephemeral Gully Erosion Assessments. <i>Soil Science Society of America Journal</i> , 2016, 80, 203-214.	2.2	42

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19	On interfacial instability as a cause of transverse subcritical bed forms. <i>Water Resources Research</i> , 2006, 42, .	4.2	39
20	Texture, spatial distribution, and rate of reservoir sedimentation within a highly erosive, cultivated watershed: Grenada Lake, Mississippi. <i>Water Resources Research</i> , 2005, 41, .	4.2	33
21	Effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment. <i>Environmental Fluid Mechanics</i> , 2015, 15, 1-25.	1.6	32
22	Long-term persistence of freshwater mussel beds in labile river channels. <i>Freshwater Biology</i> , 2018, 63, 1469-1481.	2.4	30
23	Turbulent flow and bed pressure within headcut scour holes due to plane reattached jets. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006, 44, 510-521.	1.7	28
24	Bed forms in bimodal sand-gravel sediments: laboratory and field analysis. <i>Sedimentology</i> , 2006, 53, 631-654.	3.1	27
25	Effect of soil stratification on the development and migration of headcuts in upland concentrated flows. <i>Water Resources Research</i> , 2007, 43, .	4.2	27
26	Modulation of headcut soil erosion in rills due to upstream sediment loads. <i>Water Resources Research</i> , 2010, 46, .	4.2	27
27	Modulation of near-bed hydrodynamics by freshwater mussels in an experimental channel. <i>Hydrobiologia</i> , 2018, 810, 449-463.	2.0	21
28	Response of a soil-mantled experimental landscape to exogenic forcing. <i>Water Resources Research</i> , 2012, 48, .	4.2	19
29	An Assessment of U.S. Stream Compensatory Mitigation Policy: Necessary Changes to Protect Ecosystem Functions and Services. <i>Journal of the American Water Resources Association</i> , 2013, 49, 449-462.	2.4	17
30	A bat-inspired approach to define transition rules for a cellular automaton model used to simulate urban expansion. <i>International Journal of Geographical Information Science</i> , 0, , 1-19.	4.8	16
31	Emergent Hydrodynamics and Skimming Flow Over Mussel Covered Beds in Rivers. <i>Water Resources Research</i> , 2020, 56, e2019WR026252.	4.2	16
32	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
33	Disaggregating soil erosion processes within an evolving experimental landscape. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 543-552.	2.5	14
34	Critical assessment of jet erosion test methodologies for cohesive soil and sediment. <i>Geomorphology</i> , 2017, 295, 529-536.	2.6	12
35	The Evolving Science of Stream Restoration. <i>Geophysical Monograph Series</i> , 0, , 1-8.	0.1	11
36	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

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37	Modulation of time-mean and turbulent flow by suspended sediment. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	8
38	Reservoir Sedimentation and Environmental Degradation. <i>Journal of Environmental Quality</i> , 2007, 36, 815-825.	2.0	7
39	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
40	Rapid Geomorphic and Habitat Stream Assessment Techniques Inform Restoration Differently Based on Levels of Stream Disturbance. <i>Journal of the American Water Resources Association</i> , 2014, 50, 1051-1062.	2.4	7
41	Secondary circulation within a mixing box and its effect on turbulence. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	2
42	Freshwater mussel burrow position and its relation to streambed roughness. <i>Freshwater Science</i> , 2022, 41, 315-326.	1.8	2
43	Response to: "Comment on: effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment" by Spyros Beltaos. <i>Environmental Fluid Mechanics</i> , 2015, 15, 901-903.	1.6	1
44	Numerical simulation of wall shear stress downstream of a headcut. <i>Water Management</i> , 2021, 174, 15-26.	1.2	0