

Derek B Booth

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

4,492
citations

218381

26
h-index

205818

48
g-index

55
all docs

55
docs citations

55
times ranked

3437
citing authors

#	ARTICLE	IF	CITATIONS
1	URBANIZATION OF AQUATIC SYSTEMS: DEGRADATION THRESHOLDS, STORMWATER DETECTION, AND THE LIMITS OF MITIGATION. <i>Journal of the American Water Resources Association</i> , 1997, 33, 1077-1090.	1.0	801
2	Long-term stormwater quantity and quality performance of permeable pavement systems. <i>Water Research</i> , 2003, 37, 4369-4376.	5.3	419
3	The impact of urban patterns on aquatic ecosystems: An empirical analysis in Puget lowland sub-basins. <i>Landscape and Urban Planning</i> , 2007, 80, 345-361.	3.4	315
4	STREAM-CHANNEL INCISION FOLLOWING DRAINAGE-BASIN URBANIZATION. <i>Journal of the American Water Resources Association</i> , 1990, 26, 407-417.	1.0	273
5	FOREST COVER, IMPERVIOUS-SURFACE AREA, AND THE MITIGATION OF STORMWATER IMPACTS. <i>Journal of the American Water Resources Association</i> , 2002, 38, 835-845.	1.0	243
6	Global perspectives on the urban stream syndrome. <i>Freshwater Science</i> , 2016, 35, 412-420.	0.9	224
7	REVIVING URBAN STREAMS: LAND USE, HYDROLOGY, BIOLOGY, AND HUMAN BEHAVIOR. <i>Journal of the American Water Resources Association</i> , 2004, 40, 1351-1364.	1.0	206
8	Sediment sources in an urbanizing, mixed land-use watershed. <i>Journal of Hydrology</i> , 2002, 264, 51-68.	2.3	183
9	Precipitation extremes and the impacts of climate change on stormwater infrastructure in Washington State. <i>Climatic Change</i> , 2010, 102, 319-349.	1.7	177
10	Principles for urban stormwater management to protect stream ecosystems. <i>Freshwater Science</i> , 2016, 35, 398-411.	0.9	129
11	Challenges and prospects for restoring urban streams: a perspective from the Pacific Northwest of North America. <i>Journal of the North American Benthological Society</i> , 2005, 24, 724-737.	3.0	128
12	Effectiveness of large woody debris in stream rehabilitation projects in urban basins. <i>Ecological Engineering</i> , 2001, 18, 211-226.	1.6	123
13	Effects of urban development in the Puget Lowland, Washington, on interannual streamflow patterns: Consequences for channel form and streambed disturbance. <i>Water Resources Research</i> , 2005, 41, .	1.7	104
14	The Cordilleran Ice Sheet. <i>Developments in Quaternary Sciences</i> , 2003, 1, 17-43.	0.1	93
15	Field Evaluation of Permeable Pavement Systems for Improved Stormwater Management. <i>Journal of the American Planning Association</i> , 1999, 65, 314-325.	0.9	85
16	NATURAL RESTABILIZATION OF STREAM CHANNELS IN URBAN WATERSHEDS. <i>Journal of the American Water Resources Association</i> , 2000, 36, 1219-1236.	1.0	77
17	Storm Water Pollutant Removal by Two Wet Ponds in Bellevue, Washington. <i>Journal of Environmental Engineering, ASCE</i> , 2000, 126, 321-330.	0.7	66
18	URBAN IMPACTS ON PHYSICAL STREAM CONDITION: EFFECTS OF SPATIAL SCALE, CONNECTIVITY, AND LONGITUDINAL TRENDS. <i>Journal of the American Water Resources Association</i> , 2005, 41, 565-580.	1.0	62

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19	A channel evolution model to guide sustainable urban stream restoration. <i>Area</i> , 2015, 47, 408-421.	1.0	61
20	Glaciofluvial infilling and scour of the Puget Lowland, Washington, during ice-sheet glaciation. <i>Geology</i> , 1994, 22, 695.	2.0	59
21	Ecological resistance in urban streams: the role of natural and legacy attributes. <i>Freshwater Science</i> , 2016, 35, 380-397.	0.9	55
22	Channel networks carved by subglacial water: Observations and reconstruction in the eastern Puget Lowland of Washington. <i>Bulletin of the Geological Society of America</i> , 1993, 105, 671-683.	1.6	52
23	Partial entrainment of gravel bars during floods. <i>Water Resources Research</i> , 2002, 38, 9-1-9-16.	1.7	47
24	Managing reservoir sediment release in dam removal projects: An approach informed by physical and numerical modelling of non-cohesive sediment. <i>International Journal of River Basin Management</i> , 2009, 7, 433-452.	1.5	40
25	Timing and processes of deglaciation along the southern margin of the Cordilleran ice sheet. , 0, , 71-90.		38
26	Framework and Tool for Rapid Assessment of Stream Susceptibility to Hydromodification ¹ . <i>Journal of the American Water Resources Association</i> , 2012, 48, 788-808.	1.0	37
27	Streams and Urbanization. , 2009, , 93-123.		37
28	Analyses of the erosion of fine sediment deposit for a large dam-removal project: an empirical approach. <i>International Journal of River Basin Management</i> , 2017, 15, 103-114.	1.5	33
29	Rates of channel erosion in small urban streams. <i>Water Science and Application</i> , 2001, , 17-38.	0.3	26
30	Limitations to vegetation establishment and growth in biofiltration swales. <i>Ecological Engineering</i> , 2001, 17, 429-443.	1.6	26
31	Chimney Damage in the Greater Seattle Area from the Nisqually Earthquake of 28 February 2001. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 1143-1158.	1.1	25
32	Mass Balance and Sliding Velocity of the Puget Lobe of the Cordilleran Ice Sheet During the Last Glaciation. <i>Quaternary Research</i> , 1986, 25, 269-280.	1.0	24
33	Preparing for climate change in Washington State. <i>Climatic Change</i> , 2010, 102, 351-376.	1.7	23
34	Effects of Geomorphic Setting and Urbanization on Wood, Pools, Sediment Storage, and Bank Erosion in Puget Sound Streams ¹ . <i>Journal of the American Water Resources Association</i> , 2010, 46, 972-986.	1.0	23
35	Local-scale and watershed-scale determinants of summertime urban stream temperatures. <i>Hydrological Processes</i> , 2014, 28, 2427-2438.	1.1	23
36	Costs and Benefits of Storm-Water Management: Case Study of the Puget Sound Region. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2009, 135, 150-158.	0.8	21

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37	Integrating Limiting-Factors Analysis with Process-Based Restoration to Improve Recovery of Endangered Salmonids in the Pacific Northwest, USA. <i>Water (Switzerland)</i> , 2016, 8, 174.	1.2	21
38	Deformation of Quaternary strata and its relationship to crustal folds and faults, south-central Puget Lowland, Washington State. <i>Geology</i> , 2004, 32, 505.	2.0	15
39	Glacier Physics of the Puget Lobe, Southwest Cordilleran Ice Sheet. <i>Géographie Physique Et Quaternaire</i> , 1991, 45, 301-315.	0.2	14
40	The formation of ice-marginal embankments into ice-dammed lakes in the eastern Puget Lowland, Washington, U.S.A., during the late Pleistocene. <i>Boreas</i> , 1986, 15, 247-263.	1.2	12
41	Magnetostratigraphy, paleomagnetic correlation, and deformation of Pleistocene deposits in the south central Puget Lowland, Washington. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 6-1-EPM 6-13.	3.3	11
42	Monitoring urban streams: strategies and protocols for humid-region lowland systems. <i>Environmental Monitoring and Assessment</i> , 2001, 71, 143-164.	1.3	10
43	A Method for Spatially Explicit Representation of Sub-watershed Sediment Yield, Southern California, USA. <i>Environmental Management</i> , 2014, 53, 968-984.	1.2	10
44	Geomorphology in Environmental Management. , 2011, , 78-104.		9
45	Hydrologic metrics for status and trends monitoring in urban and urbanizing watersheds. <i>Hydrological Processes</i> , 2017, 31, 4507-4519.	1.1	8
46	Geology of Seattle and the Seattle area, Washington. , 2008, , .		7
47	Hydraulic dispersion and reach-averaged velocity as indicators of enhanced organic matter transport in small Puget Lowland streams across an urban gradient. <i>Fundamental and Applied Limnology</i> , 2008, 171, 145-159.	0.4	7
48	Macroscopic behavior of freezing saturated silty soils. <i>Cold Regions Science and Technology</i> , 1981, 4, 163-174.	1.6	3
49	Commentary on duplicative publications. <i>Quaternary Research</i> , 2007, 68, 1-1.	1.0	2
50	Determining appropriate instream flows for anadromous fish passage on an intermittent mainstem river, coastal southern California, USA. <i>Ecohydrology</i> , 2014, 7, 745-759.	1.1	2
51	Opportunities and challenges for restoration of the Merced River through Yosemite Valley, Yosemite National Park, USA. <i>River Research and Applications</i> , 2020, 36, 1803-1816.	0.7	2
52	Permeable Pavement Update. <i>Journal of the American Planning Association</i> , 2004, 70, 98-98.	0.9	1
53	Introduction to the 50 th Anniversary Issue of <i>Quaternary Research</i> . <i>Quaternary Research</i> , 2020, 96, 1-21.	1.0	0
54	Low-Impact Development. , 0, , 763-766.		0