

Christopher J Walsh

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

7,128
citations

136950

32
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

5461
citing authors

#	ARTICLE	IF	CITATIONS
1	The urban stream syndrome: current knowledge and the search for a cure. <i>Journal of the North American Benthological Society</i> , 2005, 24, 706-723.	3.1	2,105
2	Stream restoration in urban catchments through redesigning stormwater systems: looking to the catchment to save the stream. <i>Journal of the North American Benthological Society</i> , 2005, 24, 690-705.	3.1	499
3	Impediments and Solutions to Sustainable, Watershed-Scale Urban Stormwater Management: Lessons from Australia and the United States. <i>Environmental Management</i> , 2008, 42, 344-359.	2.7	463
4	The Influence of Urban Density and Drainage Infrastructure on the Concentrations and Loads of Pollutants in Small Streams. <i>Environmental Management</i> , 2004, 34, 112-24.	2.7	388
5	Hydrologic shortcomings of conventional urban stormwater management and opportunities for reform. <i>Landscape and Urban Planning</i> , 2012, 105, 230-240.	7.5	323
6	Twenty-six key research questions in urban stream ecology: an assessment of the state of the science. <i>Journal of the North American Benthological Society</i> , 2009, 28, 1080-1098.	3.1	312
7	Hierarchical Partitioning Public-domain Software. <i>Biodiversity and Conservation</i> , 2004, 13, 659-660.	2.6	310
8	Urban Stormwater Runoff: A New Class of Environmental Flow Problem. <i>PLoS ONE</i> , 2012, 7, e45814.	2.5	261
9	Effects of urbanization on streams of the Melbourne region, Victoria, Australia. I. Benthic macroinvertebrate communities. <i>Freshwater Biology</i> , 2001, 46, 535-551.	2.4	175
10	Title is missing!. <i>Hydrobiologia</i> , 2000, 431, 107-114.	2.0	168
11	Understanding, Managing, and Minimizing Urban Impacts on Surface Water Nitrogen Loading. <i>Annals of the New York Academy of Sciences</i> , 2008, 1134, 61-96.	3.8	147
12	Catchment urbanisation and increased benthic algal biomass in streams: linking mechanisms to management. <i>Freshwater Biology</i> , 2004, 49, 835-851.	2.4	135
13	Principles for urban stormwater management to protect stream ecosystems. <i>Freshwater Science</i> , 2016, 35, 398-411.	1.8	129
14	Urban hydrogeomorphology and the urban stream syndrome. <i>Progress in Physical Geography</i> , 2016, 40, 480-492.	3.2	106
15	Effects of urbanization on streams of the Melbourne region, Victoria, Australia. II. Benthic diatom communities. <i>Freshwater Biology</i> , 2001, 46, 553-565.	2.4	103
16	Riverine invertebrate assemblages are degraded more by catchment urbanisation than by riparian deforestation. <i>Freshwater Biology</i> , 2007, 52, 574-587.	2.4	96
17	Protection of in-stream biota from urban impacts: minimise catchment imperviousness or improve drainage design?. <i>Marine and Freshwater Research</i> , 2004, 55, 317.	1.3	95
18	The seven lamps of planning for biodiversity in the city. <i>Cities</i> , 2018, 83, 44-53.	5.6	92

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19	Ecologically relevant geomorphic attributes of streams are impaired by even low levels of watershed effective imperviousness. <i>Geomorphology</i> , 2014, 206, 67-78.	2.6	89
20	The performance of rainwater tanks for stormwater retention and water supply at the household scale: an empirical study. <i>Hydrological Processes</i> , 2015, 29, 152-160.	2.6	88
21	The importance of upland flow paths in determining urban effects on stream ecosystems. <i>Journal of the North American Benthological Society</i> , 2009, 28, 977-990.	3.1	82
22	Restoring a stream through retention of urban stormwater runoff: a catchment-scale experiment in a social-ecological system. <i>Freshwater Science</i> , 2015, 34, 1161-1168.	1.8	71
23	More than money: how multiple factors influence householder participation in at-source stormwater management. <i>Journal of Environmental Planning and Management</i> , 2016, 59, 79-97.	4.5	65
24	Response of epilithic diatom assemblages to urbanization influences. <i>Hydrobiologia</i> , 2005, 532, 53-67.	2.0	64
25	Stormwater drainage pipes as a threat to a stream-dwelling amphipod of conservation significance, <i>Austrogammarus australis</i> , in southeastern Australia. <i>Biodiversity and Conservation</i> , 2004, 13, 781-793.	2.6	63
26	More microbial activity, not abrasive flow or shredder abundance, accelerates breakdown of labile leaf litter in urban streams. <i>Journal of the North American Benthological Society</i> , 2008, 27, 549-561.	3.1	60
27	Protection of stream ecosystems from urban stormwater runoff. <i>Progress in Physical Geography</i> , 2014, 38, 543-555.	3.2	58
28	Thinking outside the channel: Challenges and opportunities for protection and restoration of stream morphology in urbanizing catchments. <i>Landscape and Urban Planning</i> , 2016, 145, 34-44.	7.5	53
29	Retention Capacity: A Metric to Link Stream Ecology and Storm-Water Management. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 399-406.	1.9	52
30	Biological indicators of stream health using macroinvertebrate assemblage composition: a comparison of sensitivity to an urban gradient. <i>Marine and Freshwater Research</i> , 2006, 57, 37.	1.3	51
31	Urban impacts across realms: Making the case for inter-realm monitoring and management. <i>Science of the Total Environment</i> , 2019, 648, 711-719.	8.0	37
32	Urban Stormwater Runoff Drives Denitrifying Community Composition Through Changes in Sediment Texture and Carbon Content. <i>Microbial Ecology</i> , 2011, 61, 932-940.	2.8	35
33	Catchment urbanization increases benthic microalgal biomass in streams under controlled light conditions. <i>Aquatic Sciences</i> , 2007, 69, 511-522.	1.5	34
34	Interactive effects of urban stormwater drainage, land clearance, and flow regime on stream macroinvertebrate assemblages across a large metropolitan region. <i>Freshwater Science</i> , 2016, 35, 324-339.	1.8	32
35	Urbanization and stream ecology: diverse mechanisms of change. <i>Freshwater Science</i> , 2016, 35, 272-277.	1.8	30
36	A landscape measure of urban stormwater runoff effects is a better predictor of stream condition than a suite of hydrologic factors. <i>Ecohydrology</i> , 2015, 8, 160-171.	2.4	29

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37	Variability in stream ecosystem response to urbanization. <i>Progress in Physical Geography</i> , 2016, 40, 714-731.	3.2	27
38	Urbanization and stream ecology: five years later. <i>Journal of the North American Benthological Society</i> , 2009, 28, 908-910.	3.1	26
39	Spatial weighting of land use and temporal weighting of antecedent discharge improves prediction of stream condition. <i>Landscape Ecology</i> , 2014, 29, 1171-1185.	4.2	26
40	Analysis of denitrifying communities in streams from an urban and non-urban catchment. <i>Aquatic Ecology</i> , 2008, 42, 95-101.	1.5	20
41	Urbanization and stream ecology: an introduction to the series. <i>Journal of the North American Benthological Society</i> , 2005, 24, 585-587.	3.1	17
42	Catchment-scale urbanization diminishes effects of habitat complexity on instream macroinvertebrate assemblages. <i>Ecological Applications</i> , 2020, 30, e02199.	3.8	15
43	Flow-Regime Management at the Urban Land-Parcel Scale: Test of Feasibility. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	14
44	Saving a creek one bid at a time: A uniform price auction for urban stormwater retention. <i>Urban Water Journal</i> , 2016, 13, 232-241.	2.1	9
45	A biological approach to assessing the potential success of habitat restoration in urban streams. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2001, 27, 3654-3658.	0.1	8
46	Alternatives to biodiversity offsets for mitigating the effects of urbanization on stream ecosystems. <i>Conservation Biology</i> , 2018, 32, 789-797.	4.7	8
47	Title is missing!. <i>Hydrobiologia</i> , 2002, 487, 183-192.	2.0	7
48	Urban stormwater runoff limits distribution of platypus. <i>Austral Ecology</i> , 2014, 39, 337-345.	1.5	7
49	Flood disturbance affects morphology and reproduction of woody riparian plants. <i>Scientific Reports</i> , 2021, 11, 16477.	3.3	7
50	Restored river-floodplain connectivity promotes woody plant establishment. <i>Forest Ecology and Management</i> , 2021, 493, 119264.	3.2	7
51	Restored river-floodplain connectivity promotes riparian tree maintenance and recruitment. <i>Forest Ecology and Management</i> , 2022, 506, 119952.	3.2	7
52	Stream experiments at the catchment scale: the challenges and rewards of collaborating with community and government to push policy boundaries. <i>Freshwater Science</i> , 2015, 34, 1159-1160.	1.8	6
53	Restoration of contaminated ecosystems: adaptive management in a changing climate. <i>Restoration Ecology</i> , 2017, 25, 884-893.	2.9	5
54	Linking stormwater control performance to stream ecosystem outcomes: Incorporating a performance metric into effective imperviousness. , 2022, 1, e0000004.		5

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55	Variability in the response of amphipods and macroinvertebrate assemblage structure to prolonged drought in forested upland streams. <i>Biodiversity and Conservation</i> , 2016, 25, 1465-1480.	2.6	3
56	Comment on "Suburban watershed nitrogen retention: Estimating the effectiveness of stormwater management structures" by Koch et al. (<i>Elem Sci Anth</i> 3:000063, July 2015). <i>Elementa</i> , 2015, 3, .	3.2	2
57	Understanding and managing the interactive impacts of growth in urban land use and climate change on freshwater biota: a case study using the platypus (<i>Ornithorhynchus anatinus</i>). <i>Global Change Biology</i> , 2021, , .	9.5	1
58	Riparian trees resprout regardless of timing and severity of disturbance by coppicing. <i>Forest Ecology and Management</i> , 2022, 507, 119988.	3.2	1
59	Stream Restoration through Stormwater Runoff Management and Retrofit: New Objectives, New Approaches. , 2008, , .		0
60	Urban Streams and Rivers. , 2021, , .		0