David A Lytle

List of Publications by Year
in descending order

46 papers	5,094 citations	201674 27 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	5117 citing authors

#	Article	IF	Citations
1	Adaptation to natural flow regimes. Trends in Ecology and Evolution, 2004, 19, 94-100.	8.7	1,398
2	Theory, methods and tools for determining environmental flows for riparian vegetation: riparian vegetationâ€flow response guilds. Freshwater Biology, 2010, 55, 206-225.	2.4	315
3	The role of dispersal in river network metacommunities: Patterns, processes, and pathways. Freshwater Biology, 2018, 63, 141-163.	2.4	273
4	Seasonality and predictability shape temporal species diversity. Ecology, 2017, 98, 1201-1216.	3.2	230
5	HYDROLOGIC REGIMES AND RIPARIAN FORESTS: A STRUCTURED POPULATION MODEL FOR COTTONWOOD. Ecology, 2004, 85, 2493-2503.	3.2	197
6	Flow regime alteration degrades ecological networks in riparian ecosystems. Nature Ecology and Evolution, 2018, 2, 86-93.	7.8	188
7	Are largeâ€scale flow experiments informing the science and management of freshwater ecosystems?. Frontiers in Ecology and the Environment, 2014, 12, 176-185.	4.0	180
8	Dispersal strength determines metaâ€community structure in a dendritic riverine network. Journal of Biogeography, 2015, 42, 778-790.	3.0	168
9	Ecosystem effects of environmental flows: modelling and experimental floods in a dryland river. Freshwater Biology, 2010, 55, 68-85.	2.4	162
10	Severe drought drives novel community trajectories in desert stream pools. Freshwater Biology, 2011, 56, 2070-2081.	2.4	158
11	Disturbance Regimes and Lifeâ€History Evolution. American Naturalist, 2001, 157, 525-536.	2.1	156
12	Resistance and resilience of invertebrate communities to seasonal and supraseasonal drought in aridâ€land headwater streams. Freshwater Biology, 2015, 60, 2547-2558.	2.4	142
13	Prepare river ecosystems for an uncertain future. Nature, 2019, 570, 301-303.	27.8	142
14	Flow intermittency alters longitudinal patterns of invertebrate diversity and assemblage composition in an aridâ€land stream network. Freshwater Biology, 2013, 58, 1016-1028.	2.4	131
15	CONSTRAINTS ON PRIMARY PRODUCER N:P STOICHIOMETRY ALONG N:P SUPPLY RATIO GRADIENTS. Ecology, 2005, 86, 1894-1904.	3.2	120
16	Seasonal flow variation allows 'time-sharing' by disparate aquatic insect communities in montane desert streams. Freshwater Biology, 2007, 52, 290-304.	2.4	119
17	Automated insect identification through concatenated histograms of local appearance features: feature vector generation and region detection for deformable objects. Machine Vision and Applications, 2008, 19, 105-123.	2.7	105
18	Population genetic structure reveals terrestrial affinities for a headwater stream insect. Freshwater Biology, 2007, 52, 1881-1897.	2.4	93

#	Article	IF	Citations
19	Invertebrate assemblages of pools in aridâ€land streams have high functional redundancy and are resistant to severe drying. Freshwater Biology, 2014, 59, 491-501.	2.4	83
20	Quantifying invertebrate resistance to floods: a global-scale meta-analysis. , 2012, 22, 2164-2175.		75
21	Why do we fly? Ecologists' sins of emission. Frontiers in Ecology and the Environment, 2009, 7, 294-296.	4.0	74
22	STOICHIOMETRY AND PLANKTONIC GRAZER COMPOSITION OVER GRADIENTS OF LIGHT, NUTRIENTS, AND PREDATION RISK. Ecology, 2004, 85, 2291-2301.	3.2	66
23	Evolution of aquatic insect behaviours across a gradient of disturbance predictability. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 453-462.	2.6	64
24	Automated processing and identification of benthic invertebrate samples. Journal of the North American Benthological Society, 2010, 29, 867-874.	3.1	55
25	Linking river flow regimes to riparian plant guilds: a communityâ€wide modeling approach. Ecological Applications, 2017, 27, 1338-1350.	3.8	51
26	Biogeography and conservation of aquatic fauna in spring-fed tropical canyons of the southern Sonoran Desert, Mexico. Biodiversity and Conservation, 2014, 23, 2705-2748.	2.6	45
27	Drought-Escape Behaviors Of Aquatic Insects May Be Adaptations To Highly Variable Flow Regimes Characteristic Of Desert Rivers. Southwestern Naturalist, 2008, 53, 399-402.	0.1	37
28	Convergent diversity and trait composition in temporary streams and ponds. Ecosphere, 2016, 7, e01350.	2.2	33
29	Designing flow regimes to support entire river ecosystems. Frontiers in Ecology and the Environment, 2021, 19, 326-333.	4.0	32
30	High mortality and enhanced recovery: modelling the countervailing effects of disturbance on population dynamics. Ecology Letters, 2017, 20, 1566-1575.	6.4	28
31	Increasing drought favors nonnative fishes in a dryland river: evidence from a multispecies demographic model. Ecosphere, 2019, 10, e02681.	2.2	26
32	Top predator removals have consistent effects on large species despite high environmental variability. Oikos, 2014, 123, 807-816.	2.7	21
33	Exaptation and Flash Flood Escape in the Giant Water Bugs. Journal of Insect Behavior, 2004, 17, 169-178.	0.7	20
34	Rainfall Cues and Flash-Flood Escape in Desert Stream Insects. Journal of Insect Behavior, 2007, 20, 413-423.	0.7	20
35	Hydrology drives seasonal variation in dryland stream macroinvertebrate communities. Aquatic Sciences, 2017, 79, 705-717.	1.5	16
36	The puzzle of partial migration: Adaptive dynamics and evolutionary game theory perspectives. Journal of Theoretical Biology, 2017, 412, 172-185.	1.7	14

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37	Herbivory enhances the diversity of primary producers in pond ecosystems. Ecology, 2017, 98, 48-56.	3.2	12
38	Do latitudinal gradients exist in New Zealand stream invertebrate metacommunities?. PeerJ, 2018, 6, e4898.	2.0	9
39	Traits-based approaches support the conservation relevance of landscape genetics. Conservation Genetics, 2018, 19, 17-26.	1.5	8
40	Integrated ecosystems: linking food webs through reciprocal resource reliance. Ecology, 2021, 102, e03450.	3.2	8
41	Hydropeaking intensity and dam proximity limit aquatic invertebrate diversity in the Colorado River Basin. Ecosphere, 2021, 12, e03559.	2.2	7
42	Two new species of Grylloblatta Walker, 1914 (Grylloblattodea: Grylloblattidae) from western North America, and a neotype designation for G. rothi Gurney 1953. Zootaxa, 2015, 3949, 408.	0.5	4
43	Population models with partial migration. Journal of Difference Equations and Applications, 2016, 22, 316-329.	1.1	3
44	Importance of neutral processes varies in time and space: Evidence from dryland stream ecosystems. PLoS ONE, 2017, 12, e0176949.	2.5	3
45	Food chain length and trophic niche of a key predator in montane desert streams. Hydrobiologia, 2020, 847, 983-997.	2.0	1
46	Population connectivity of aquatic insects in a damâ€regulated, desert river. River Research and Applications, 0, , .	1.7	0