Caryn C Vaughn

List of Publications by Year
in descending order

81	5,522	94433 37	82547 72
papers	citations	h-index	g-index

81	81	81	3354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The functional role of burrowing bivalves in freshwater ecosystems. Freshwater Biology, 2001, 46, 1431-1446.	2.4	623
2	Ecosystem services provided by freshwater mussels. Hydrobiologia, 2018, 810, 15-27.	2.0	291
3	Community and foodweb ecology of freshwater mussels. Journal of the North American Benthological Society, 2008, 27, 409-423.	3.1	285
4	Biodiversity Losses and Ecosystem Function in Freshwaters: Emerging Conclusions and Research Directions. BioScience, 2010, 60, 25-35.	4.9	271
5	Impoundments and the Decline of Freshwater Mussels: a Case Study of an Extinction Gradient. Conservation Biology, 1999, 13, 912-920.	4.7	231
6	Ecosystem service trade-offs from supply to social demand: A landscape-scale spatial analysis. Landscape and Urban Planning, 2014, 132, 102-110.	7.5	207
7	Context-dependent effects of freshwater mussels on stream benthic communities. Freshwater Biology, 2006, 51, 1016-1024.	2.4	181
8	Bivalve Impacts in Freshwater and Marine Ecosystems. Annual Review of Ecology, Evolution, and Systematics, 2018, 49, 183-208.	8.3	172
9	Research priorities for freshwater mussel conservation assessment. Biological Conservation, 2019, 231, 77-87.	4.1	156
10	A trait-based approach to speciesâ€™ roles in stream ecosystems: climate change, community structure, and material cycling. Oecologia, 2008, 158, 307-317.	2.0	152
11	Ecosystem Processes Performed by Unionid Mussels in Stream Mesocosms: Species Roles and Effects of Abundance. Hydrobiologia, 2004, 527, 35-47.	2.0	150
12	Aggregated filterâ€feeding consumers alter nutrient limitation: consequences for ecosystem and community dynamics. Ecology, 2013, 94, 1359-1369.	3.2	131
13	Unionid mussels influence macroinvertebrate assemblage structure in streams. Journal of the North American Benthological Society, 2006, 25, 691-700.	3.1	126
14	Macroecology of a hostâ€parasite relationship. Ecography, 2000, 23, 11-20.	4.5	123
15	Do protected areas networks ensure the supply of ecosystem services? Spatial patterns of two nature reserve systems in semi-arid Spain. Applied Geography, 2015, 60, 1-9.	3.7	116
16	Complex hydraulic and substrate variables limit freshwater mussel species richness and abundance. Journal of the North American Benthological Society, 2010, 29, 383-394.	3.1	110
17	Biogeochemical hotspots: temporal and spatial scaling of the impact of freshwater mussels on ecosystem function. Freshwater Biology, 2015, 60, 563-574.	2.4	108
18	Burrowing behavior of freshwater mussels in experimentally manipulated communities. Journal of the North American Benthological Society, 2009, 28, 93-100.	3.1	103

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19	CONTEXT-DEPENDENT SPECIES IDENTITY EFFECTS WITHIN A FUNCTIONAL GROUP OF FILTER-FEEDING BIVALVES. Ecology, 2007, 88, 1654-1662.	3.2	97
20	Synergistic effects of regional climate patterns and local water management on freshwater mussel communities. Biological Conservation, 2010, 143, 1175-1183.	4.1	86
21	Bottomâ€up biodiversity effects increase resource subsidy flux between ecosystems. Ecology, 2012, 93, 2165-2174.	3.2	85
22	Droughtâ€induced changes in flow regimes lead to longâ€term losses in muselâ€provided ecosystem services. Ecology and Evolution, 2015, 5, 1291-1305.	1.9	83
23	Regional patterns of mussel species distributions in North American rivers. Ecography, 1997, 20, 107-115.	4.5	77
24	Life history traits and abundance can predict local colonisation and extinction rates of freshwater mussels. Freshwater Biology, 2012, 57, 982-992.	2.4	76
25	Population genetics of the freshwater mussel, Amblema plicata (Say 1817) (Bivalvia: Unionidae): Evidence of high dispersal and post-glacial colonization. Conservation Genetics, 2007, 8, 355-372.	1.5	71
26	Social Demand for Ecosystem Services and Implications for Watershed Management. Journal of the American Water Resources Association, 2016, 52, 209-221.	2.4	71
27	The role of periphyton abundance and quality in the microdistribution of a stream grazer, Helicopsyche borealis (Trichoptera: Helicopsychidae). Freshwater Biology, 1986, 16, 485-493.	2.4	60
28	Species and function lost: Role of drought in structuring stream communities. Biological Conservation, 2014, 176, 30-38.	4.1	60
29	Tracing Consumer-Derived Nitrogen in Riverine Food Webs. Ecosystems, 2014, 17, 485-496.	3.4	55
30	Vertical migration as a refuge from predation in intertidal marsh snails: A field test. Journal of Experimental Marine Biology and Ecology, 1988, 123, 163-176.	1.5	54
31	Scaleâ€dependent longitudinal patterns in mussel communities. Freshwater Biology, 2012, 57, 2272-2284.	2.4	54
32	Temperature and food interact to influence gamete development in freshwater mussels. Hydrobiologia, 2009, 636, 35-47.	2.0	50
33	Density-dependent biodiversity effects on physical habitat modification by freshwater bivalves. Ecology, 2011, 92, 1013-1019.	3.2	43
34	Scale-dependent associations between native freshwater mussels and invasive Corbicula. Hydrobiologia, 2006, 568, 331-339.	2.0	42
35	Developing environmental flow recommendations for freshwater mussels using the biological traits of species guilds. Freshwater Biology, 2015, 60, 620-635.	2.4	41
36	Dispersion of the Salt-Marsh Periwinkle Littoraria irrorata: Effects of Water Level, Size, and Season. Estuaries and Coasts, 1992, 15, 246.	1.7	39

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37	Goodbye to â€œRough Fishâ€• Paradigm Shift in the Conservation of Native Fishes. Fisheries, 2021, 46, 605-616.	0.8	38
38	Effects of reservoir management on abundance, condition, parasitism and reproductive traits of downstream mussels. River Research and Applications, 2011, 27, 193-201.	1.7	37
39	Species traits and environmental conditions govern the relationship between biodiversity effects across trophic levels. Oecologia, 2012, 168, 533-548.	2.0	37
40	Willingness to Pay for Ecosystem Services among Stakeholder Groups in a South-Central U.S. Watershed with Regional Conflict. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	37
41	Drought-Induced, Punctuated Loss of Freshwater Mussels Alters Ecosystem Function Across Temporal Scales. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	36
42	Species richness and temperature influence mussel biomass: a partitioning approach applied to natural communities. Ecology, 2009, 90, 781-790.	3.2	35
43	Effects of Algivorous Minnows on Production of Grazing Stream Invertebrates. Oikos, 1993, 66, 119.	2.7	33
44	A Tale of Two Rivers: Implications of Water Management Practices for Mussel Biodiversity Outcomes During Droughts. Ambio, 2013, 42, 881-891.	5.5	31
45	Consumer Aggregations Drive Nutrient Dynamics and Ecosystem Metabolism in Nutrient-Limited Systems. Ecosystems, 2018, 21, 521-535.	3.4	31
46	Longâ€term persistence of freshwater mussel beds in labile river channels. Freshwater Biology, 2018, 63, 1469-1481.	2.4	30
47	Environmental variables interact across spatial scales to structure trichopteran assemblages in Ouachita Mountain rivers. Hydrobiologia, 2008, 596, 401-411.	2.0	29
48	Comparison of gill surface morphology across a guild of suspension-feeding unionid bivalves. Journal of Molluscan Studies, 2009, 75, 103-107.	1.2	28
49	Long-lived organisms provide an integrative footprint of agricultural land use. , 2014, 24, 375-384.		28
50	Macroecology of a host-parasite relationship. Ecography, 2000, 23, 11-20.	4.5	28
51	Status of Rare and Endangered Freshwater Mussels in Southeastern Oklahoma. Southwestern Naturalist, 2008, 53, 45-50.	0.1	26
52	Profiles of Biochemical Tracers in Unionid Mussels Across a Broad Geographical Range. Journal of Shellfish Research, 2013, 32, 497-507.	0.9	25
53	Biomass distribution of fishes and mussels mediates spatial and temporal heterogeneity in nutrient cycling in streams. Oecologia, 2018, 188, 1133-1144.	2.0	25
54	SOUTHERN PLAINS RIVERS. , 2005, , 282-325.		22

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55	Habitat Preference of the Endangered American Burying Beetle (Nicrophorus americanus) in Oklahoma. Southwestern Naturalist, 1993, 38, 275.	0.1	21
56	Speciesâ€™ traits and environmental gradients interact to govern primary production in freshwater mussel communities. Oikos, 2012, 121, 403-416.	2.7	21
57	Applying Place-Based Social-Ecological Research to Address Water Scarcity: Insights for Future Research. Sustainability, 2018, 10, 1516.	3.2	19
58	Mercury consumption and human health: Linking pollution and social risk perception in the southeastern United States. Journal of Environmental Management, 2021, 282, 111528.	7.8	18
59	Prioritizing sites for conservation based on similarity to historical baselines and feasibility of protection. Conservation Biology, 2018, 32, 1118-1127.	4.7	17
60	Freshwater mussels alter fish distributions through habitat modifications at fine spatial scales. Freshwater Science, 2019, 38, 702-712.	1.8	17
61	Animal effects on dissolved organic carbon bioavailability in an algal controlled ecosystem. Freshwater Biology, 2020, 65, 1298-1310.	2.4	16
62	Emergent Hydrodynamics and Skimming Flow Over Mussel Covered Beds in Rivers. Water Resources Research, 2020, 56, e2019WR026252.	4.2	16
63	Life History of Helicopsyche borealis (Hagen) (Trichoptera: Helicopsychidae) in Oklahoma. American Midland Naturalist, 1985, 113, 76.	0.4	15
64	Distribution of chironomids in the littoral zone of Lake Texoma, Oklahoma and Texas. Hydrobiologia, 1982, 89, 177-188.	2.0	14
65	Animal aggregations promote emergent aquatic plant production at the aquaticâ€“terrestrial interface. Ecology, 2020, 101, e03126.	3.2	14
66	A review and evaluation of the effects of hydrodynamic variables on freshwater mussel communities. Freshwater Biology, 2021, 66, 1665-1679.	2.4	13
67	Characterization of Prairie Mole Cricket Chorusing Sites in Oklahoma. American Midland Naturalist, 1993, 130, 364.	0.4	12
68	Density-dependent biodiversity effects on physical habitat modification by freshwater bivalves. Ecology, 2011, 92, 1013-1019.	3.2	12
69	Status of the Mussel Fauna of the Poteau River and Implications for Commercial Harvest. American Midland Naturalist, 2004, 152, 336-346.	0.4	11
70	Substratum preference of the caddisfly Helicopsyche borealis (Hagen) (Trichoptera: Helicopsychidae). Hydrobiologia, 1987, 154, 201-205.	2.0	8
71	Growth and Longevity Estimates for Mussel Populations in Three Ouachita Mountain Rivers. Freshwater Mollusk Biology and Conservation, 2016, 19, 19.	0.4	8
72	Limited movement of freshwater mussel fish hosts in a southern US river. Hydrobiologia, 2015, 757, 223-233.	2.0	7

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73	Effects of Juvenile Settling and Drift Rates on Freshwater Mussel Dispersal. American Midland Naturalist, 2018, 180, 258-272.	0.4	7
74	Freshwater mussels increase survival of largemouth bass (Micropterus salmoides) in drying pools. Ecology of Freshwater Fish, 2020, 29, 220-229.	1.4	6
75	Mussels and Local Conditions Interact to Influence Microbial Communities in Mussel Beds. Frontiers in Microbiology, 2021, 12, 790554.	3.5	5
76	Do mobile consumers homogenize the distribution of resources in stream food webs? A test with overlapping fish and mussel aggregations. Freshwater Biology, 2022, 67, 684-694.	2.4	3
77	Organized Oral Session 44: Impacts of Species Addition and Species Loss on Ecosystem Function in Freshwater Systems. Bulletin of the Ecological Society of America, 2012, 93, 402-408.	0.2	2
78	Latitudinal variation in freshwater mussel potential maximum length in Eastern North America. Freshwater Biology, 2022, 67, 1020-1034.	2.4	2
79	Ecosystem Services across US Watersheds: A Meta-Analysis of Studies 2000â€“2014. , 2018, , .		1
80	Population Genetics of a Common Freshwater Mussel, Amblema plicata, in a Southern U.S. River. Freshwater Mollusk Biology and Conservation, 2020, 23, .	0.4	1
81	Consumer Aggregations Drive Nutrient Dynamics and Ecosystem Metabolism in Nutrient-Limited Systems. Ecosystems, 2017, 21, 521-535.	3.4	0