Bryan L Brown

List of Publications by Year
in descending order

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61 papers	2,727 citations	218592 26 h-index	189801 50 g-index
63 all docs	63 docs citations	63 times ranked	3461 citing authors

#	Article	IF	Citations
1	Biodiversity may regulate the temporal variability of ecological systems. Ecology Letters, 2001, 4, 72-85.	3.0	411
2	Dendritic network structure constrains metacommunity properties in riverine ecosystems. Journal of Animal Ecology, 2010, 79, 571-580.	1.3	408
3	Knowing when to draw the line: designing more informative ecological experiments. Frontiers in Ecology and the Environment, 2005, 3, 145-152.	1.9	298
4	Metacommunity theory as a multispecies, multiscale framework for studying the influence of river network structure on riverine communities and ecosystems. Journal of the North American Benthological Society, 2011, 30, 310-327.	3.0	191
5	Spatial heterogeneity reduces temporal variability in stream insect communities. Ecology Letters, 2003, 6, 316-325.	3.0	123
6	Making sense of metacommunities: dispelling the mythology of a metacommunity typology. Oecologia, 2017, 183, 643-652.	0.9	114
7	The fine line between mutualism and parasitism: complex effects in a cleaning symbiosis demonstrated by multiple field experiments. Oecologia, 2012, 170, 199-207.	0.9	71
8	Multiple diversityâ€“stability mechanisms enhance population and community stability in aquatic food webs. Ecology, 2014, 95, 173-184.	1.5	71
9	Branchiobdellid annelids and their crayfish hosts: are they engaged in a cleaning symbiosis?. Oecologia, 2002, 132, 250-255.	0.9	64
10	ENVIRONMENTAL FLUCTUATIONS INDUCE SCALEâ€DEPENDENT COMPENSATION AND INCREASE STABILITY IN PLANKTON ECOSYSTEMS. Ecology, 2008, 89, 3204-3214.	1.5	64
11	Metacommunity theory meets restoration: isolation may mediate how ecological communities respond to stream restoration. Ecological Applications, 2017, 27, 2209-2219.	1.8	52
12	Habitat heterogeneity and disturbance influence patterns of community temporal variability in a small temperate stream. Hydrobiologia, 2007, 586, 93-106.	1.0	49
13	Multi-scale ecological filters shape the crayfish microbiome. Symbiosis, 2017, 72, 159-170.	1.2	46
14	Positive biotic interactions in freshwaters: A review and research directive. Freshwater Biology, 2020, 65, 811-832.	1.2	45
15	Compensatory dynamics stabilize aggregate community properties in response to multiple types of perturbations. Ecology, 2016, 97, 2021-2033.	1.5	38
16	Servants, scoundrels, and hitchhikers: current understanding of the complex interactions between crayfish and their ectosymbiotic worms (Branchiobdellida). Freshwater Science, 2013, 32, 1345-1357.	0.9	37
17	Host preference by an aquatic ectosymbiotic annelid on 2 sympatric species of host crayfishes. Journal of the North American Benthological Society, 2004, 23, 90-100.	3.0	34
18	The missing wetlands: using local ecological knowledge to find cryptic ecosystems. Biodiversity and Conservation, 2012, 21, 51-63.	1.2	33

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19	Ontogenetic shift in host tolerance controls initiation of a cleaning symbiosis. Oikos, 2014, 123, 677-686.	1.2	33
20	Does Stream Size Really Explain Biodiversity Patterns in Lotic Systems? A Call for Mechanistic Explanations. Diversity, 2017, 9, 26.	0.7	33
21	Preventing overexploitation in a mutualism: partner regulation in the crayfishâ€“branchiobdellid symbiosis. Oecologia, 2014, 174, 501-510.	0.9	32
22	A simulationâ€based approach to understand how metacommunity characteristics influence emergent biodiversity patterns. Oikos, 2017, 126, 723-737.	1.2	32
23	The rules for symbiont community assembly change along a mutualismâ€“parasitism continuum. Journal of Animal Ecology, 2016, 85, 843-853.	1.3	31
24	Habitat heterogeneity and activity of an omnivorous ecosystem engineer control stream community dynamics. Ecology, 2010, 91, 1799-1810.	1.5	30
25	Linking management to biodiversity in built ponds using metacommunity simulations. Ecological Modelling, 2015, 296, 36-45.	1.2	29
26	Trends in Stream Biodiversity Research since the River Continuum Concept. Diversity, 2015, 7, 16-35.	0.7	28
27	Using rarity to infer how dendritic network structure shapes biodiversity in riverine communities. Ecography, 2014, 37, 993-1001.	2.1	26
28	Experimentally disentangling the influence of dispersal and habitat filtering on benthic invertebrate community structure. Freshwater Biology, 2018, 63, 48-61.	1.2	26
29	A framework for understanding how biodiversity patterns unfold across multiple spatial scales in urban ecosystems. Ecosphere, 2021, 12, e03650.	1.0	24
30	Ontogenetic shifts in a freshwater cleaning symbiosis: consequences for hosts and their symbionts. Ecology, 2016, 97, 1507-1517.	1.5	22
31	Advancing theory of community assembly in spatially structured environments: local vs regional processes in river networks. Journal of the North American Benthological Society, 2011, 30, 232-234.	3.0	19
32	The effects of environmental context and initial density on symbiont populations in a freshwater cleaning symbiosis. Freshwater Science, 2013, 32, 1358-1366.	0.9	17
33	Manipulation of local environment produces different diversity outcomes depending on location within a river network. Oecologia, 2017, 184, 663-674.	0.9	16
34	Reproductive dependence of a branchiobdellidan annelid on its crayfish host: confirmation of a mutualism. Crustaceana, 2015, 88, 385-396.	0.1	15
35	Species Pool Functional Diversity Plays a Hidden Role in Generating Î²-Diversity. American Naturalist, 2018, 191, E159-E170.	1.0	14
36	Rethinking Biological Invasions as a Metacommunity Problem. Frontiers in Ecology and Evolution, 2021, 8, .	1.1	14

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37	Recent advances in crayfish biology, ecology, and conservation. Freshwater Science, 2013, 32, 1273-1275.	0.9	13
38	A symbiont's dispersal strategy: condition-dependent dispersal underlies predictable variation in direct transmission among hosts. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152081.	1.2	13
39	The cyanobacterium Gloeotrichia echinulata increases the stability and network complexity of phytoplankton communities. Ecosphere, 2017, 8, e01830.	1.0	12
40	Characterizing and measuring transportation infrastructure diversity through linkages with ecological stability theory. Transportation Research, Part A: Policy and Practice, 2019, 128, 114-130.	2.0	12
41	Water exchange pertaining to host attachment sites and stream preference in crayfish-associated branchiobdellids, Cambarincola fallax and Cambarincola ingens (Annelida: Clitellata). Hydrobiologia, 2007, 592, 523-533.	1.0	10
42	Building Partnerships and Bridging Science and Policy to Address the Biological Invasions Crisis. Invasive Plant Science and Management, 2019, 12, 74-78.	0.5	10
43	Identifying the Relative Importance of Leaf versus Shredder Species Loss on Litter Decomposition in Streams. International Review of Hydrobiology, 2009, 94, 452-471.	0.5	7
44	Multiple mechanisms can stabilize a freshwater mutualism. Freshwater Science, 2018, 37, 760-768.	0.9	6
45	The potential impacts of invasions on native symbionts. Ecology, 2022, 103, e3726.	1.5	6
46	Stream bacterial diversity peaks at intermediate freshwater salinity and varies by salt type. Science of the Total Environment, 2022, 840, 156690.	3.9	6
47	Exploratory analysis for complex-life-cycle amphibians: Revealing complex forest-reproductive effort relationships using redundancy analysis. Forest Ecology and Management, 2012, 270, 175-182.	1.4	5
48	Reduced Densities of Ectosymbiotic Worms (Annelida: Branchiobdellida) on Reproducing Female Crayfish. Southeastern Naturalist, 2014, 13, 523.	0.2	5
49	Experimental logging alters the abundance and community composition of ovipositing mosquitoes in the southern Appalachians. Ecological Entomology, 2018, 43, 463-472.	1.1	4
50	Strong effects of a mutualism on freshwater community structure. Ecology, 2021, 102, e03225.	1.5	4
51	A new composite abundance metric detects stream fish declines and community homogenization during six decades of invasions. Diversity and Distributions, 2021, 27, 2136-2156.	1.9	4
52	Diversity Patterns Associated with Varying Dispersal Capabilities as a Function of Spatial and Local Environmental Variables in Small Wetlands in Forested Ecosystems. Forests, 2020, 11, 1146.	0.9	3
53	Landscape features and study design affect elements of metacommunity structure for stream fishes across the eastern U.S.A.. Freshwater Biology, 2021, 66, 1736-1750.	1.2	3
54	The dilution effect in a freshwater mutualism: Impacts of introduced host species on native symbionts. River Research and Applications, 0, , .	0.7	3

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55	Small Parks as Local Socialâ€“Ecological Systems Contributing to Conservation of Small Isolated and Ephemeral Wetlands. Natural Areas Journal, 2018, 38, 237-249.	0.2	2
56	Ectosymbionts alter spontaneous responses to the Earthâ€™s magnetic field in a crustacean. Scientific Reports, 2019, 9, 3105.	1.6	2
57	Geographic patterns of crayfish symbiont diversity persist over half a century despite seasonal fluctuations. Freshwater Crayfish, 2016, 22, 9-18.	0.5	2
58	Host specificity and microhabitat preference of symbiotic copepods (Cyclopoida: Clausiididae) associated with ghost shrimps (Decapoda: Callichiridae, Callianideidae). Ecology and Evolution, 2020, 10, 10709-10718.	0.8	1
59	Knowing When to Draw the Line: Designing More Informative Ecological Experiments. Frontiers in Ecology and the Environment, 2005, 3, 145.	1.9	1
60	Distribution and Conservation Status of the Crayfish Fauna of South Carolina, USA. Freshwater Crayfish, 2016, 22, 43-51.	0.5	1
61	Dispersal in Stream Networks: Meta-populations and Meta-communities. , 2022, , .		1