Bradley J Cardinale

List of Publications by Year
in descending order

101	23,452	34076 52	31818 101
papers	citations	h-index	g-index

101	101	101	24406
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Do not downplay biodiversity loss. Nature, 2022, 601, E27-E28.	13.7	17
2	Biodiversity and disease risk in an algal biofuel system: An experimental test in outdoor ponds using a before-after-control-impact (BACI) design. PLoS ONE, 2022, 17, e0267674.	1.1	3
3	Scaling up biodiversityâ€“ecosystem function relationships across space and over time. Ecology, 2020, 101, e03166.	1.5	37
4	Hedonic Price Estimates of Lake Water Quality: Valued Attribute, Instrumental Variables, and Ecological-Economic Benefits. Ecological Economics, 2020, 176, 106692.	2.9	27
5	Intraâ€guild predation (IGP) can increase or decrease prey density depending on the strength of IGP. Ecology, 2020, 101, e03012.	1.5	4
6	Weak intra-guild predation facilitates consumer coexistence but does not guarantee higher consumer density. Ecological Modelling, 2020, 424, 109019.	1.2	4
7	An empiricist's guide to modern coexistence theory for competitive communities. Oikos, 2020, 129, 1109-1127.	1.2	39
8	Biodiversity Improves Life Cycle Sustainability Metrics in Algal Biofuel Production. Environmental Science & Technology, 2019, 53, 9279-9288.	4.6	17
9	The individual and synergistic impacts of feedstock characteristics and reaction conditions on the aqueous co-product from hydrothermal liquefaction. Algal Research, 2019, 42, 101568.	2.4	10
10	The independent and coupled effects of feedstock characteristics and reaction conditions on biocrude production by hydrothermal liquefaction. Applied Energy, 2019, 235, 714-728.	5.1	38
11	Aquatic macroinvertebrates stabilize gravel bed sediment: A test using silk net-spinning caddisflies in semi-natural river channels. PLoS ONE, 2019, 14, e0209087.	1.1	16
12	Species diversity of resident green algae slows the establishment and proliferation of the cyanobacterium Microcystis aeruginosa. Limnologica, 2019, 74, 23-27.	0.7	13
13	Is local biodiversity declining or not? A summary of the debate over analysis of species richness time trends. Biological Conservation, 2018, 219, 175-183.	1.9	127
14	Riparian plant biodiversity reduces stream channel migration rates in three rivers in Michigan, U.S.A.. Ecohydrology, 2018, 11, e1972.	1.1	6
15	Ranking stressor impacts on periphyton structure and function with mesocosm experiments and environmental-change forecasts. PLoS ONE, 2018, 13, e0204510.	1.1	12
16	Interactions between large and small detritivores influence how biodiversity impacts litter decomposition. Journal of Animal Ecology, 2018, 87, 1465-1474.	1.3	36
17	Biodiversity improves the ecological design of sustainable biofuel systems. GCB Bioenergy, 2018, 10, 752-765.	2.5	27
18	Stream nitrogen concentration, but not plant Nâ€fixing capacity, modulates litter diversity effects on decomposition. Functional Ecology, 2017, 31, 1471-1481.	1.7	26

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19	Ecological interactions and coexistence are predicted by gene expression similarity in freshwater green algae. Journal of Ecology, 2017, 105, 580-591.	1.9	25
20	The economic value of grassland species for carbon storage. Science Advances, 2017, 3, e1601880.	4.7	96
21	Ecosystem services in the Great Lakes. Journal of Great Lakes Research, 2017, 43, 161-168.	0.8	56
22	Ecological Stoichiometry Meets Ecological Engineering: Using Polycultures to Enhance the Multifunctionality of Algal Biocrude Systems. Environmental Science & Technology, 2017, 51, 11450-11458.	4.6	21
23	Biodiversity effects in the wild are common and as strong as key drivers of productivity. Nature, 2017, 549, 261-264.	13.7	466
24	Biodiversity: what value should we use?. Frontiers in Ecology and the Environment, 2017, 15, 283-283.	1.9	2
25	Influence of biodiversity, biochemical composition, and species identity on the quality of biomass and biocrude oil produced via hydrothermalÂliquefaction. Algal Research, 2017, 26, 203-214.	2.4	28
26	A general biodiversityâ€“function relationship is mediated by trophic level. Oikos, 2017, 126, 18-31.	1.2	112
27	Herbivores control effects of algal species richness on community biomass and stability in a laboratory microcosm experiment. Oikos, 2016, 125, 1627-1635.	1.2	10
28	Power of Plankton: Effects of Algal Biodiversity on Biocrude Production and Stability. Environmental Science & Technology, 2016, 50, 13142-13150.	4.6	28
29	Estimating local biodiversity change: a critique of papers claiming no net loss of local diversity. Ecology, 2016, 97, 1949-1960.	1.5	224
30	Plant biodiversity effects in reducing fluvial erosion are limited to low species richness. Ecology, 2016, 97, 17-24.	1.5	25
31	Common Ancestry Is a Poor Predictor of Competitive Traits in Freshwater Green Algae. PLoS ONE, 2015, 10, e0137085.	1.1	20
32	Further reâ€analyses looking for effects of phylogenetic diversity on community biomass and stability. Functional Ecology, 2015, 29, 1607-1610.	1.7	13
33	Evolutionary relatedness does not predict competition and co-occurrence in natural or experimental communities of green algae. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141745.	1.2	26
34	Marine biodiversity and ecosystem functioning: what's known and what's next?. Oikos, 2015, 124, 252-265.	1.2	195
35	Biodiversity enhances ecosystem multifunctionality across trophic levels and habitats. Nature Communications, 2015, 6, 6936.	5.8	515
36	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a reâ€examination of 16 grassland biodiversity studies. Functional Ecology, 2015, 29, 615-626.	1.7	124

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37	Anthropogenic land use is associated with N-fixing cyanobacterial dominance in lakes across the continental United States. Aquatic Sciences, 2015, 77, 681-694.	0.6	30
38	Is the relationship between algal diversity and biomass in North American lakes consistent with biodiversity experiments?. Oikos, 2014, 123, 267-278.	1.2	28
39	Evolutionary history and the strength of species interactions: testing the phylogenetic limiting similarity hypothesis. Ecology, 2014, 95, 1407-1417.	1.5	54
40	REVIEW: Do polycultures promote winâ€wins or tradeâ€offs in agricultural ecosystem services? A metaâ€analysis. Journal of Applied Ecology, 2014, 51, 1593-1602.	1.9	164
41	Biodiversity conservation in agriculture requires a multi-scale approach. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141358.	1.2	232
42	Toward a Better Integration of Ecological Principles into Ecogeoscience Research. BioScience, 2014, 64, 444-454.	2.2	20
43	Overlooked local biodiversity loss. Science, 2014, 344, 1098-1098.	6.0	22
44	The influence of phylogenetic relatedness on species interactions among freshwater green algae in a mesocosm experiment. Journal of Ecology, 2014, 102, 1288-1299.	1.9	53
45	Investigating the relationship between biodiversity and ecosystem multifunctionality: challenges and solutions. Methods in Ecology and Evolution, 2014, 5, 111-124.	2.2	533
46	Species Richness and the Temporal Stability of Biomass Production: A New Analysis of Recent Biodiversity Experiments. American Naturalist, 2014, 183, 1-12.	1.0	309
47	Biotic vs. Abiotic Control of Decomposition: A Comparison of the Effects of Simulated Extinctions and Changes in Temperature. PLoS ONE, 2014, 9, e87426.	1.1	26
48	Non-Additive Increases in Sediment Stability Are Generated by Macroinvertebrate Species Interactions in Laboratory Streams. PLoS ONE, 2014, 9, e103417.	1.1	26
49	Experimental evidence that evolutionary relatedness does not affect the ecological mechanisms of coexistence in freshwater green algae. Ecology Letters, 2013, 16, 1373-1381.	3.0	158
50	Biodiversity simultaneously enhances the production and stability of community biomass, but the effects are independent. Ecology, 2013, 94, 1697-1707.	1.5	146
51	Interactions between sea urchin grazing and prey diversity on temperate rocky reef communities. Ecology, 2013, 94, 1636-1646.	1.5	16
52	Effects of predator richness on prey suppression: a metaâ€analysis. Ecology, 2013, 94, 2180-2187.	1.5	160
53	Shared ancestry influences community stability by altering competitive interactions: evidence from a laboratory microcosm experiment using freshwater green algae. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131548.	1.2	13
54	Impacts of Biodiversity Loss. Science, 2012, 336, 552-553.	6.0	53

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55	How do stream organisms respond to, and influence, the concentration of titanium dioxide nanoparticles? A mesocosm study with algae and herbivores. Environmental Toxicology and Chemistry, 2012, 31, 2414-2422.	2.2	51
56	Abundance, size structure, and growth rates of Sacramento pikeminnow (Ptychocheilus grandis) following a large-scale stream channel restoration in California. Journal of Freshwater Ecology, 2012, 27, 495-505.	0.5	6
57	A global synthesis reveals biodiversity loss as a major driver of ecosystem change. Nature, 2012, 486, 105-108.	13.7	1,750
58	Biodiversity loss and its impact on humanity. Nature, 2012, 486, 59-67.	13.7	4,969
59	Niche and fitness differences relate the maintenance of diversity to ecosystem function. Ecology, 2011, 92, 1157-1165.	1.5	173
60	The functional role of producer diversity in ecosystems. American Journal of Botany, 2011, 98, 572-592.	0.8	991
61	Cardinale reply. Nature, 2011, 477, E3-E4.	13.7	4
62	Climate-driven increases in storm frequency simplify kelp forest food webs. Global Change Biology, 2011, 17, 2513-2524.	4.2	172
63	Impacts of Channel Reconstruction on Invertebrate Assemblages in a Restored River. Restoration Ecology, 2011, 19, 627-638.	1.4	16
64	Ecological factors associated with the strength of trophic cascades in streams. Oikos, 2011, 120, 1897-1908.	1.2	29
65	Biodiversity improves water quality through niche partitioning. Nature, 2011, 472, 86-89.	13.7	577
66	An Ecological Perspective on Nanomaterial Impacts in the Environment. Journal of Environmental Quality, 2010, 39, 1954-1965.	1.0	168
67	Competitionâ€“defense tradeoffs and the maintenance of plant diversity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17217-17222.	3.3	74
68	Stability and Aggregation of Metal Oxide Nanoparticles in Natural Aqueous Matrices. Environmental Science & Technology, 2010, 44, 1962-1967.	4.6	1,162
69	A critique for metaâ€analyses and the productivityâ€“ diversity relationship. Ecology, 2010, 91, 2545-2549.	1.5	45
70	Species richness enhances both algal biomass and rates of oxygen production in aquatic microcosms. Oikos, 2009, 118, 1703-1711.	1.2	31
71	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. Ecology Letters, 2009, 12, 516-527.	3.0	144
72	Separating the influence of resource â€˜availabilityâ€™ from resource â€˜imbalanceâ€™ on productivityâ€“diversity relationships. Ecology Letters, 2009, 12, 475-487.	3.0	198

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73	Diversity has stronger topâ€down than bottomâ€up effects on decomposition. Ecology, 2009, 90, 1073-1083.	1.5	187
74	Does productivity drive diversity or vice versa? A test of the multivariate productivityâ€“diversity hypothesis in streams. Ecology, 2009, 90, 1227-1241.	1.5	111
75	Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. Ecology, 2009, 90, 854-854.	1.5	36
76	Producer Nutritional Quality Controls Ecosystem Trophic Structure. PLoS ONE, 2009, 4, e4929.	1.1	119
77	Cascading effects of predator richness. Frontiers in Ecology and the Environment, 2008, 6, 539-546.	1.9	176
78	Evolutionary history and the effect of biodiversity on plant productivity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17012-17017.	3.3	503
79	Effects of Algal Diversity on the Production of Biomass in Homogeneous and Heterogeneous Nutrient Environments: A Microcosm Experiment. PLoS ONE, 2008, 3, e2825.	1.1	66
80	Impacts of plant diversity on biomass production increase through time because of species complementarity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18123-18128.	3.3	1,175
81	The functional role of biodiversity in ecosystems: incorporating trophic complexity. Ecology Letters, 2007, 10, 522-538.	3.0	808
82	EFFECTS OF SPECIES DIVERSITY ON COMMUNITY BIOMASS PRODUCTION CHANGE OVER THE COURSE OF SUCCESSION. Ecology, 2007, 88, 929-939.	1.5	112
83	Impacts of tree species diversity on litter decomposition in northern temperate forests of Wisconsin, USA: a multi-site experiment along a latitudinal gradient. Plant and Soil, 2007, 292, 147-159.	1.8	71
84	Biodiversity as both a cause and consequence of resource availability: a study of reciprocal causality in a predator-prey system. Journal of Animal Ecology, 2006, 75, 497-505.	1.3	109
85	Geographic patterns of diversity in streams are predicted by a multivariate model of disturbance and productivity. Journal of Ecology, 2006, 94, 609-618.	1.9	73
86	Effects of biodiversity on the functioning of trophic groups and ecosystems. Nature, 2006, 443, 989-992.	13.7	1,516
87	Learning by the parasitoid wasp, Aphidius ervi (Hymenoptera: Braconidae), alters individual fixed preferences for pea aphid color morphs. Oecologia, 2006, 150, 172-179.	0.9	42
88	The functional consequences of random vs. ordered species extinctions. Ecology Letters, 2005, 8, 409-418.	3.0	102
89	Reciprocal effects of host plant and natural enemy diversity on herbivore suppression: an empirical study of a model tritrophic system. Oikos, 2005, 108, 275-282.	1.2	119
90	DIVERSITYâ€“PRODUCTIVITY RELATIONSHIPS IN STREAMS VARY AS A FUNCTION OF THE NATURAL DISTURBANCE REGIME. Ecology, 2005, 86, 716-726.	1.5	97

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91	Consumer effects decline with prey diversity. Ecology Letters, 2004, 7, 192-201.	3.0	180
92	Effects of species diversity on the primary productivity of ecosystems: extending our spatial and temporal scales of inference. Oikos, 2004, 104, 437-450.	1.2	203
93	Food-web interactions govern the resistance of communities after non-random extinctions. Nature, 2004, 429, 174-177.	13.7	227
94	The Role of Biodiversity in the Functioning of Freshwater and Marine Benthic Ecosystems. BioScience, 2004, 54, 767.	2.2	296
95	Extinction and Ecosystem Function in the Marine Benthos. Science, 2004, 306, 1177-1180.	6.0	646
96	Biodiversity and biocontrol: emergent impacts of a multi-enemy assemblage on pest suppression and crop yield in an agroecosystem. Ecology Letters, 2003, 6, 857-865.	3.0	447
97	THE INFLUENCE OF SUBSTRATE HETEROGENEITY ON BIOFILM METABOLISM IN A STREAM ECOSYSTEM. Ecology, 2002, 83, 412-422.	1.5	149
98	DISTURBANCE MODERATES BIODIVERSITYâ€“ECOSYSTEM FUNCTION RELATIONSHIPS: EXPERIMENTAL EVIDENCE FROM CADDISFLIES IN STREAM MESOCOSMS. Ecology, 2002, 83, 1915-1927.	1.5	89
99	Does Facilitation of Faunal Recruitment Benefit Ecosystem Restoration? An Experimental Study of Invertebrate Assemblages in Wetland Mesocosms. Restoration Ecology, 2002, 10, 617-626.	1.4	37
100	Species diversity enhances ecosystem functioning through interspecific facilitation. Nature, 2002, 415, 426-429.	13.7	692
101	Zebra Mussels in a Coastal Marsh: The Seasonal and Spatial Limits of Colonization. Journal of Great Lakes Research, 1995, 21, 587-593.	0.8	16