

# Bradley J Cardinale

## List of Publications by Year in descending order

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101  
papers

23,452  
citations

34105

52  
h-index

31849

101  
g-index

101  
all docs

101  
docs citations

101  
times ranked

24406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Do not downplay biodiversity loss. <i>Nature</i> , 2022, 601, E27-E28.	27.8	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. <i>PLoS ONE</i> , 2022, 17, e0267674.	2.5	3
3	Scaling up biodiversityâ€ecosystem function relationships across space and over time. <i>Ecology</i> , 2020, 101, e031166.	3.2	37
4	Hedonic Price Estimates of Lake Water Quality: Valued Attribute, Instrumental Variables, and Ecological-Economic Benefits. <i>Ecological Economics</i> , 2020, 176, 106692.	5.7	27
5	Intraâ€guild predation (IGP) can increase or decrease prey density depending on the strength of IGP. <i>Ecology</i> , 2020, 101, e03012.	3.2	4
6	Weak intra-guild predation facilitates consumer coexistence but does not guarantee higher consumer density. <i>Ecological Modelling</i> , 2020, 424, 109019.	2.5	4
7	An empiricist's guide to modern coexistence theory for competitive communities. <i>Oikos</i> , 2020, 129, 1109-1127.	2.7	39
8	Biodiversity Improves Life Cycle Sustainability Metrics in Algal Biofuel Production. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9279-9288.	10.0	17
9	The individual and synergistic impacts of feedstock characteristics and reaction conditions on the aqueous co-product from hydrothermal liquefaction. <i>Algal Research</i> , 2019, 42, 101568.	4.6	10
10	The independent and coupled effects of feedstock characteristics and reaction conditions on biocrude production by hydrothermal liquefaction. <i>Applied Energy</i> , 2019, 235, 714-728.	10.1	38
11	Aquatic macroinvertebrates stabilize gravel bed sediment: A test using silk net-spinning caddisflies in semi-natural river channels. <i>PLoS ONE</i> , 2019, 14, e0209087.	2.5	16
12	Species diversity of resident green algae slows the establishment and proliferation of the cyanobacterium <i>Microcystis aeruginosa</i> . <i>Limnologica</i> , 2019, 74, 23-27.	1.5	13
13	Is local biodiversity declining or not? A summary of the debate over analysis of species richness time trends. <i>Biological Conservation</i> , 2018, 219, 175-183.	4.1	127
14	Riparian plant biodiversity reduces stream channel migration rates in three rivers in Michigan, U.S.A.. <i>Ecohydrology</i> , 2018, 11, e1972.	2.4	6
15	Ranking stressor impacts on periphyton structure and function with mesocosm experiments and environmental-change forecasts. <i>PLoS ONE</i> , 2018, 13, e0204510.	2.5	12
16	Interactions between large and small detritivores influence how biodiversity impacts litter decomposition. <i>Journal of Animal Ecology</i> , 2018, 87, 1465-1474.	2.8	36
17	Biodiversity improves the ecological design of sustainable biofuel systems. <i>GCB Bioenergy</i> , 2018, 10, 752-765.	5.6	27
18	Stream nitrogen concentration, but not plant Nâ€fixing capacity, modulates litter diversity effects on decomposition. <i>Functional Ecology</i> , 2017, 31, 1471-1481.	3.6	26

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19	Ecological interactions and coexistence are predicted by gene expression similarity in freshwater green algae. <i>Journal of Ecology</i> , 2017, 105, 580-591.	4.0	25
20	The economic value of grassland species for carbon storage. <i>Science Advances</i> , 2017, 3, e1601880.	10.3	96
21	Ecosystem services in the Great Lakes. <i>Journal of Great Lakes Research</i> , 2017, 43, 161-168.	1.9	56
22	Ecological Stoichiometry Meets Ecological Engineering: Using Polycultures to Enhance the Multifunctionality of Algal Biocrude Systems. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11450-11458.	10.0	21
23	Biodiversity effects in the wild are common and as strong as key drivers of productivity. <i>Nature</i> , 2017, 549, 261-264.	27.8	466
24	Biodiversity: what value should we use?. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 283-283.	4.0	2
25	Influence of biodiversity, biochemical composition, and species identity on the quality of biomass and biocrude oil produced via hydrothermal liquefaction. <i>Algal Research</i> , 2017, 26, 203-214.	4.6	28
26	A general biodiversity–function relationship is mediated by trophic level. <i>Oikos</i> , 2017, 126, 18-31.	2.7	112
27	Herbivores control effects of algal species richness on community biomass and stability in a laboratory microcosm experiment. <i>Oikos</i> , 2016, 125, 1627-1635.	2.7	10
28	Power of Plankton: Effects of Algal Biodiversity on Biocrude Production and Stability. <i>Environmental Science &amp; Technology</i> , 2016, 50, 13142-13150.	10.0	28
29	Estimating local biodiversity change: a critique of papers claiming no net loss of local diversity. <i>Ecology</i> , 2016, 97, 1949-1960.	3.2	224
30	Plant biodiversity effects in reducing fluvial erosion are limited to low species richness. <i>Ecology</i> , 2016, 97, 17-24.	3.2	25
31	Common Ancestry Is a Poor Predictor of Competitive Traits in Freshwater Green Algae. <i>PLoS ONE</i> , 2015, 10, e0137085.	2.5	20
32	Further re-analyses looking for effects of phylogenetic diversity on community biomass and stability. <i>Functional Ecology</i> , 2015, 29, 1607-1610.	3.6	13
33	Evolutionary relatedness does not predict competition and co-occurrence in natural or experimental communities of green algae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141745.	2.6	26
34	Marine biodiversity and ecosystem functioning: what's known and what's next?. <i>Oikos</i> , 2015, 124, 252-265.	2.7	195
35	Biodiversity enhances ecosystem multifunctionality across trophic levels and habitats. <i>Nature Communications</i> , 2015, 6, 6936.	12.8	515
36	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a re-examination of 16 grassland biodiversity studies. <i>Functional Ecology</i> , 2015, 29, 615-626.	3.6	124

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37	Anthropogenic land use is associated with N-fixing cyanobacterial dominance in lakes across the continental United States. <i>Aquatic Sciences</i> , 2015, 77, 681-694.	1.5	30
38	Is the relationship between algal diversity and biomass in North American lakes consistent with biodiversity experiments?. <i>Oikos</i> , 2014, 123, 267-278.	2.7	28
39	Evolutionary history and the strength of species interactions: testing the phylogenetic limiting similarity hypothesis. <i>Ecology</i> , 2014, 95, 1407-1417.	3.2	54
40	REVIEW: Do polycultures promote win-win or trade-offs in agricultural ecosystem services? A meta-analysis. <i>Journal of Applied Ecology</i> , 2014, 51, 1593-1602.	4.0	164
41	Biodiversity conservation in agriculture requires a multi-scale approach. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141358.	2.6	232
42	Toward a Better Integration of Ecological Principles into Ecogeoscience Research. <i>BioScience</i> , 2014, 64, 444-454.	4.9	20
43	Overlooked local biodiversity loss. <i>Science</i> , 2014, 344, 1098-1098.	12.6	22
44	The influence of phylogenetic relatedness on species interactions among freshwater green algae in a mesocosm experiment. <i>Journal of Ecology</i> , 2014, 102, 1288-1299.	4.0	53
45	Investigating the relationship between biodiversity and ecosystem multifunctionality: challenges and solutions. <i>Methods in Ecology and Evolution</i> , 2014, 5, 111-124.	5.2	533
46	Species Richness and the Temporal Stability of Biomass Production: A New Analysis of Recent Biodiversity Experiments. <i>American Naturalist</i> , 2014, 183, 1-12.	2.1	309
47	Biotic vs. Abiotic Control of Decomposition: A Comparison of the Effects of Simulated Extinctions and Changes in Temperature. <i>PLoS ONE</i> , 2014, 9, e87426.	2.5	26
48	Non-Additive Increases in Sediment Stability Are Generated by Macroinvertebrate Species Interactions in Laboratory Streams. <i>PLoS ONE</i> , 2014, 9, e103417.	2.5	26
49	Experimental evidence that evolutionary relatedness does not affect the ecological mechanisms of coexistence in freshwater green algae. <i>Ecology Letters</i> , 2013, 16, 1373-1381.	6.4	158
50	Biodiversity simultaneously enhances the production and stability of community biomass, but the effects are independent. <i>Ecology</i> , 2013, 94, 1697-1707.	3.2	146
51	Interactions between sea urchin grazing and prey diversity on temperate rocky reef communities. <i>Ecology</i> , 2013, 94, 1636-1646.	3.2	16
52	Effects of predator richness on prey suppression: a meta-analysis. <i>Ecology</i> , 2013, 94, 2180-2187.	3.2	160
53	Shared ancestry influences community stability by altering competitive interactions: evidence from a laboratory microcosm experiment using freshwater green algae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131548.	2.6	13
54	Impacts of Biodiversity Loss. <i>Science</i> , 2012, 336, 552-553.	12.6	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. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 2414-2422.	4.3	51
56	Abundance, size structure, and growth rates of Sacramento pikeminnow ( <i>Ptychocheilus grandis</i> ) following a large-scale stream channel restoration in California. <i>Journal of Freshwater Ecology</i> , 2012, 27, 495-505.	1.2	6
57	A global synthesis reveals biodiversity loss as a major driver of ecosystem change. <i>Nature</i> , 2012, 486, 105-108.	27.8	1,750
58	Biodiversity loss and its impact on humanity. <i>Nature</i> , 2012, 486, 59-67.	27.8	4,969
59	Niche and fitness differences relate the maintenance of diversity to ecosystem function. <i>Ecology</i> , 2011, 92, 1157-1165.	3.2	173
60	The functional role of producer diversity in ecosystems. <i>American Journal of Botany</i> , 2011, 98, 572-592.	1.7	991
61	Cardinale reply. <i>Nature</i> , 2011, 477, E3-E4.	27.8	4
62	Climate-driven increases in storm frequency simplify kelp forest food webs. <i>Global Change Biology</i> , 2011, 17, 2513-2524.	9.5	172
63	Impacts of Channel Reconstruction on Invertebrate Assemblages in a Restored River. <i>Restoration Ecology</i> , 2011, 19, 627-638.	2.9	16
64	Ecological factors associated with the strength of trophic cascades in streams. <i>Oikos</i> , 2011, 120, 1897-1908.	2.7	29
65	Biodiversity improves water quality through niche partitioning. <i>Nature</i> , 2011, 472, 86-89.	27.8	577
66	An Ecological Perspective on Nanomaterial Impacts in the Environment. <i>Journal of Environmental Quality</i> , 2010, 39, 1954-1965.	2.0	168
67	Competitionâ€ defense tradeoffs and the maintenance of plant diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17217-17222.	7.1	74
68	Stability and Aggregation of Metal Oxide Nanoparticles in Natural Aqueous Matrices. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1962-1967.	10.0	1,162
69	A critique for metaâ€analyses and the productivityâ€ diversity relationship. <i>Ecology</i> , 2010, 91, 2545-2549.	3.2	45
70	Species richness enhances both algal biomass and rates of oxygen production in aquatic microcosms. <i>Oikos</i> , 2009, 118, 1703-1711.	2.7	31
71	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. <i>Ecology Letters</i> , 2009, 12, 516-527.	6.4	144
72	Separating the influence of resource â€availabilityâ€™ from resource â€imbalanceâ€™ on productivityâ€ diversity relationships. <i>Ecology Letters</i> , 2009, 12, 475-487.	6.4	198

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73	Diversity has stronger top-down than bottom-up effects on decomposition. <i>Ecology</i> , 2009, 90, 1073-1083.	3.2	187
74	Does productivity drive diversity or vice versa? A test of the multivariate productivity-diversity hypothesis in streams. <i>Ecology</i> , 2009, 90, 1227-1241.	3.2	111
75	Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. <i>Ecology</i> , 2009, 90, 854-854.	3.2	36
76	Producer Nutritional Quality Controls Ecosystem Trophic Structure. <i>PLoS ONE</i> , 2009, 4, e4929.	2.5	119
77	Cascading effects of predator richness. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 539-546.	4.0	176
78	Evolutionary history and the effect of biodiversity on plant productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17012-17017.	7.1	503
79	Effects of Algal Diversity on the Production of Biomass in Homogeneous and Heterogeneous Nutrient Environments: A Microcosm Experiment. <i>PLoS ONE</i> , 2008, 3, e2825.	2.5	66
80	Impacts of plant diversity on biomass production increase through time because of species complementarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18123-18128.	7.1	1,175
81	The functional role of biodiversity in ecosystems: incorporating trophic complexity. <i>Ecology Letters</i> , 2007, 10, 522-538.	6.4	808
82	EFFECTS OF SPECIES DIVERSITY ON COMMUNITY BIOMASS PRODUCTION CHANGE OVER THE COURSE OF SUCCESSION. <i>Ecology</i> , 2007, 88, 929-939.	3.2	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. <i>Plant and Soil</i> , 2007, 292, 147-159.	3.7	71
84	Biodiversity as both a cause and consequence of resource availability: a study of reciprocal causality in a predator-prey system. <i>Journal of Animal Ecology</i> , 2006, 75, 497-505.	2.8	109
85	Geographic patterns of diversity in streams are predicted by a multivariate model of disturbance and productivity. <i>Journal of Ecology</i> , 2006, 94, 609-618.	4.0	73
86	Effects of biodiversity on the functioning of trophic groups and ecosystems. <i>Nature</i> , 2006, 443, 989-992.	27.8	1,516
87	Learning by the parasitoid wasp, <i>Aphidius ervi</i> (Hymenoptera: Braconidae), alters individual fixed preferences for pea aphid color morphs. <i>Oecologia</i> , 2006, 150, 172-179.	2.0	42
88	The functional consequences of random vs. ordered species extinctions. <i>Ecology Letters</i> , 2005, 8, 409-418.	6.4	102
89	Reciprocal effects of host plant and natural enemy diversity on herbivore suppression: an empirical study of a model tritrophic system. <i>Oikos</i> , 2005, 108, 275-282.	2.7	119
90	DIVERSITY-PRODUCTIVITY RELATIONSHIPS IN STREAMS VARY AS A FUNCTION OF THE NATURAL DISTURBANCE REGIME. <i>Ecology</i> , 2005, 86, 716-726.	3.2	97

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91	Consumer effects decline with prey diversity. <i>Ecology Letters</i> , 2004, 7, 192-201.	6.4	180
92	Effects of species diversity on the primary productivity of ecosystems: extending our spatial and temporal scales of inference. <i>Oikos</i> , 2004, 104, 437-450.	2.7	203
93	Food-web interactions govern the resistance of communities after non-random extinctions. <i>Nature</i> , 2004, 429, 174-177.	27.8	227
94	The Role of Biodiversity in the Functioning of Freshwater and Marine Benthic Ecosystems. <i>BioScience</i> , 2004, 54, 767.	4.9	296
95	Extinction and Ecosystem Function in the Marine Benthos. <i>Science</i> , 2004, 306, 1177-1180.	12.6	646
96	Biodiversity and biocontrol: emergent impacts of a multi-enemy assemblage on pest suppression and crop yield in an agroecosystem. <i>Ecology Letters</i> , 2003, 6, 857-865.	6.4	447
97	THE INFLUENCE OF SUBSTRATE HETEROGENEITY ON BIOFILM METABOLISM IN A STREAM ECOSYSTEM. <i>Ecology</i> , 2002, 83, 412-422.	3.2	149
98	DISTURBANCE MODERATES BIODIVERSITYâ€™ECOSYSTEM FUNCTION RELATIONSHIPS: EXPERIMENTAL EVIDENCE FROM CADDISFLIES IN STREAM MESOCOSMS. <i>Ecology</i> , 2002, 83, 1915-1927.	3.2	89
99	Does Facilitation of Faunal Recruitment Benefit Ecosystem Restoration? An Experimental Study of Invertebrate Assemblages in Wetland Mesocosms. <i>Restoration Ecology</i> , 2002, 10, 617-626.	2.9	37
100	Species diversity enhances ecosystem functioning through interspecific facilitation. <i>Nature</i> , 2002, 415, 426-429.	27.8	692
101	Zebra Mussels in a Coastal Marsh: The Seasonal and Spatial Limits of Colonization. <i>Journal of Great Lakes Research</i> , 1995, 21, 587-593.	1.9	16