BjÃ¶rn C Rall

List of Publications by Year
in descending order

		109137	197535
49 papers	5,132 citations	35 h-index	49 g-index
58 all docs	58 docs citations	58 times ranked	4732 citing authors

#	Article	IF	Citations
1	CONSUMERâ€“RESOURCE BODY-SIZE RELATIONSHIPS IN NATURAL FOOD WEBS. Ecology, 2006, 87, 2411-2417.	1.5	568
2	Universal temperature and body-mass scaling of feeding rates. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2923-2934.	1.8	376
3	Temperature, predatorâ€“prey interaction strength and population stability. Global Change Biology, 2010, 16, 2145-2157.	4.2	326
4	Allometric degree distributions facilitate food-web stability. Nature, 2007, 450, 1226-1229.	13.7	257
5	Warming up the system: higher predator feeding rates but lower energetic efficiencies. Global Change Biology, 2011, 17, 1301-1310.	4.2	221
6	Plant diversity improves protection against soilâ€borne pathogens by fostering antagonistic bacterial communities. Journal of Ecology, 2012, 100, 597-604.	1.9	218
7	Allometric functional response model: body masses constrain interaction strengths. Journal of Animal Ecology, 2010, 79, 249-256.	1.3	184
8	Ecological stability in response to warming. Nature Climate Change, 2014, 4, 206-210.	8.1	176
9	Phylogenetic grouping, curvature and metabolic scaling in terrestrial invertebrates. Ecology Letters, 2011, 14, 993-1000.	3.0	168
10	Body masses, functional responses and predatorâ€“prey stability. Ecology Letters, 2013, 16, 1126-1134.	3.0	159
11	Predator traits determine food-web architecture across ecosystems. Nature Ecology and Evolution, 2019, 3, 919-927.	3.4	157
12	The dynamics of food chains under climate change and nutrient enrichment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2935-2944.	1.8	148
13	Foraging theory predicts predatorâ€“prey energy fluxes. Journal of Animal Ecology, 2008, 77, 1072-1078.	1.3	138
14	Foodâ€web connectance and predator interference dampen the paradox of enrichment. Oikos, 2008, 117, 202-213.	1.2	136
15	Interactive effects of warming, eutrophication and size structure: impacts on biodiversity and foodâ€web structure. Global Change Biology, 2016, 22, 220-227.	4.2	125
16	Predicting the effects of temperature on food web connectance. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2081-2091.	1.8	115
17	A general scaling law reveals why the largest animals are not the fastest. Nature Ecology and Evolution, 2017, 1, 1116-1122.	3.4	112
18	Predicting the consequences of species loss using sizeâ€structured biodiversity approaches. Biological Reviews, 2017, 92, 684-697.	4.7	108

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19	Animal diversity and ecosystem functioning in dynamic food webs. Nature Communications, 2016, 7, 12718.	5.8	107
20	Impacts of Warming on the Structure and Functioning of Aquatic Communities. Advances in Ecological Research, 2012, 47, 81-176.	1.4	106
21	Robustness to secondary extinctions: Comparing trait-based sequential deletions in static and dynamic food webs. Basic and Applied Ecology, 2011, 12, 571-580.	1.2	80
22	Warming effects on consumption and intraspecific interference competition depend on predator metabolism. Journal of Animal Ecology, 2012, 81, 516-523.	1.3	78
23	Taxonomic versus allometric constraints on nonâ€linear interaction strengths. Oikos, 2011, 120, 483-492.	1.2	77
24	Unexpected changes in community size structure in a natural warming experiment. Nature Climate Change, 2017, 7, 659-663.	8.1	70
25	Fitting functional responses: Direct parameter estimation by simulating differential equations. Methods in Ecology and Evolution, 2018, 9, 2076-2090.	2.2	67
26	Unravelling Linkages between Plant Community Composition and the Pathogen-Suppressive Potential of Soils. Scientific Reports, 2016, 6, 23584.	1.6	60
27	The Allometry of Prey Preferences. PLoS ONE, 2011, 6, e25937.	1.1	59
28	Climate change effects on macrofaunal litter decomposition: the interplay of temperature, body masses and stoichiometry. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3025-3032.	1.8	55
29	Habitat structure and prey aggregation determine the functional response in a soil predatorâ€“prey interaction. Pedobiologia, 2010, 53, 307-312.	0.5	54
30	The susceptibility of species to extinctions in model communities. Basic and Applied Ecology, 2011, 12, 590-599.	1.2	54
31	Habitat structure alters top-down control in litter communities. Oecologia, 2013, 172, 877-887.	0.9	54
32	Litter elemental stoichiometry and biomass densities of forest soil invertebrates. Oikos, 2014, 123, 1212-1223.	1.2	53
33	Evolutionary food web model based on body masses gives realistic networks with permanent species turnover. Scientific Reports, 2015, 5, 10955.	1.6	52
34	Temperature and consumer type dependencies of energy flows in natural communities. Oikos, 2017, 126, 1717-1725.	1.2	52
35	Effects of environmental warming and drought on sizeâ€structured soil food webs. Oikos, 2014, 123, 1224-1233.	1.2	48
36	Biodiversity of intertidal food webs in response to warming across latitudes. Nature Climate Change, 2020, 10, 264-269.	8.1	40

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37	Experimental duration and predator satiation levels systematically affect functional response parameters. Oikos, 2018, 127, 590-598.	1.2	39
38	Applying generalized allometric regressions to predict live body mass of tropical and temperate arthropods. Ecology and Evolution, 2018, 8, 12737-12749.	0.8	37
39	Variations in prey consumption of centipede predators in forest soils as indicated by molecular gut content analysis. Oikos, 2014, 123, 1192-1198.	1.2	36
40	Unifying elemental stoichiometry and metabolic theory in predicting species abundances. Ecology Letters, 2014, 17, 1247-1256.	3.0	31
41	Size-based food web characteristics govern the response to species extinctions. Basic and Applied Ecology, 2011, 12, 581-589.	1.2	24
42	Consistent temperature dependence of functional response parameters and their use in predicting population abundance. Journal of Animal Ecology, 2019, 88, 1670-1683.	1.3	23
43	Thermal acclimation increases the stability of a predatorâ€"prey interaction in warmer environments. Global Change Biology, 2021, 27, 3765-3778.	4.2	19
44	Testing the validity of functional response models using molecular gut content analysis for prey choice in soil predators. Oikos, 2018, 127, 915-926.	1.2	18
45	Reducible defence: chemical protection alters the dynamics of predatorâ€"prey interactions. Chemoecology, 2015, 25, 53-61.	0.6	16
46	Phage strategies facilitate bacterial coexistence under environmental variability. PeerJ, 2021, 9, e12194.	0.9	14
47	How patch size and refuge availability change interaction strength and population dynamics: a combined individual- and population-based modeling experiment. PeerJ, 2017, 5, e2993.	0.9	11
48	Analyzing pathogen suppressiveness in bioassays with natural soils using integrative maximum likelihood methods in R. PeerJ, 2016, 4, e2615.	0.9	4
49	Fish Species Sensitivity Ranking Depends on Pesticide Exposure Profiles. Environmental Toxicology and Chemistry, 2022, 41, 1732-1741.	2.2	2