Mark Novak

List of Publications by Year
in descending order

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45 papers	4,078 citations	331670 21 h-index	254184 43 g-index
59 all docs	59 docs citations	59 times ranked	6592 citing authors

#	Article	IF	Citations
1	Why intraspecific trait variation matters in community ecology. Trends in Ecology and Evolution, 2011, 26, 183-192.	8.7	1,809
2	Global patterns of kelp forest change over the past half-century. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13785-13790.	7.1	511
3	Long-Term Studies Contribute Disproportionately to Ecology and Policy. BioScience, 2017, 67, 271-281.	4.9	226
4	UNDERSTANDING AND PREDICTING ECOLOGICAL DYNAMICS: ARE MAJOR SURPRISES INEVITABLE. Ecology, 2008, 89, 952-961.	3.2	222
5	Structure and mechanism of diet specialisation: testing models of individual variation in resource use with sea otters. Ecology Letters, 2012, 15, 475-483.	6.4	146
6	Predicting community responses to perturbations in the face of imperfect knowledge and network complexity. Ecology, 2011, 92, 836-846.	3.2	96
7	Characterizing Species Interactions to Understand Press Perturbations: What Is the Community Matrix?. Annual Review of Ecology, Evolution, and Systematics, 2016, 47, 409-432.	8.3	89
8	Selection on stability across ecological scales. Trends in Ecology and Evolution, 2015, 30, 417-425.	8.7	86
9	The intrinsic predictability of ecological time series and its potential to guide forecasting. Ecological Monographs, 2019, 89, e01359.	5.4	74
10	Ecosystem context and historical contingency in apex predator recoveries. Science Advances, 2016, 2, e1501769.	10.3	61
11	Estimating interaction strengths in nature: experimental support for an observational approach. Ecology, 2010, 91, 2394-2405.	3.2	52
12	Using experimental indices to quantify the strength of species interactions. Oikos, 2010, 119, 1057-1063.	2.7	48
13	ESTIMATING NONLINEAR INTERACTION STRENGTHS: AN OBSERVATION-BASED METHOD FOR SPECIES-RICH FOOD WEBS. Ecology, 2008, 89, 2083-2089.	3.2	46
14	Using the functional response of a consumer to predict biotic resistance to invasive prey. Ecological Applications, 2012, 22, 1162-1171.	3.8	46
15	Quantifying predator dependence in the functional response of generalist predators. Ecology Letters, 2017, 20, 761-769.	6.4	41
16	Rapid and direct recoveries of predators and prey through synchronized ecosystem management. Nature Ecology and Evolution, 2017, 1, 68.	7.8	39
17	Timescales alter the inferred strength and temporal consistency of intraspecific diet specialization. Oecologia, 2015, 178, 61-74.	2.0	38
18	Where does the time go?: Mixing and the depth-dependent distribution of fossil ages. Geology, 2015, 43, 487-490.	4.4	36

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19	Generalized modeling of ecological population dynamics. Theoretical Ecology, 2011, 4, 179-194.	1.0	33
20	What drives interaction strengths in complex food webs? A test with feeding rates of a generalist stream predator. Ecology, 2018, 99, 1591-1601.	3.2	31
21	Complexity Increases Predictability in Allometrically Constrained Food Webs. American Naturalist, 2016, 188, 87-98.	2.1	29
22	Systematic bias in studies of consumer functional responses. Ecology Letters, 2021, 24, 580-593.	6.4	28
23	Merging Resource Availability with Isotope Mixing Models: The Role of Neutral Interaction Assumptions. PLoS ONE, 2011, 6, e22015.	2.5	26
24	Trophic omnivory across a productivity gradient: intraguild predation theory and the structure and strength of species interactions. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131415.	2.6	21
25	Trematode parasites exceed aquatic insect biomass in Oregon stream food webs. Journal of Animal Ecology, 2021, 90, 766-775.	2.8	19
26	A multiâ€decade time series of kelp forest community structure at San Nicolas Island, California (USA). Ecology, 2013, 94, 2654-2654.	3.2	18
27	Hidden layers of density dependence in consumer feeding rates. Ecology Letters, 2021, 24, 520-532.	6.4	18
28	The application of Bayesian hierarchical models to quantify individual diet specialization. Ecology, 2017, 98, 1535-1547.	3.2	17
29	An Online Database for Informing Ecological Network Models: http://kelpforest.ucsc.edu. PLoS ONE, 2014, 9, e109356.	2.5	17
30	Probabilistic patterns of interaction: the effects of link-strength variability on food web structure. Journal of the Royal Society Interface, 2012, 9, 3219-3228.	3.4	14
31	Using Survival Models to Estimate Invertebrate Prey Identification Times in a Generalist Stream Fish. Transactions of the American Fisheries Society, 2017, 146, 1303-1314.	1.4	14
32	Nestedness patterns and the dual nature of community reassembly in <scp>C</scp>alifornia streams: a multivariate permutationâ€based approach. Global Change Biology, 2011, 17, 3714-3723.	9.5	13
33	Planning for Change: Assessing the Potential Role of Marine Protected Areas and Fisheries Management Approaches for Resilience Management in a Changing Ocean. Oceanography, 2019, 32, 116-125.	1.0	13
34	Bayesian characterization of uncertainty in species interaction strengths. Oecologia, 2017, 184, 327-339.	2.0	12
35	Temporal shifts in intraspecific and interspecific diet variation among 3 stream predators. Freshwater Science, 2020, 39, 115-125.	1.8	12
36	Quantifying the effects of intraspecific variation on predator feeding rates through nonlinear averaging. Functional Ecology, 2021, 35, 1560-1571.	3.6	9

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37	Collective behaviour can stabilize ecosystems. Nature Ecology and Evolution, 2021, 5, 1435-1440.	7.8	9
38	Experimental demonstration of a trophic cascade in the GalÃ¡pagos rocky subtidal: Effects of consumer identity and behavior. PLoS ONE, 2017, 12, e0175705.	2.5	8
39	Foodâ€web interaction strength distributions are conserved by greater variation between than within predatorâ€“prey pairs. Ecology, 2019, 100, e02816.	3.2	8
40	Kelp-forest dynamics controlled by substrate complexity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
41	PISCO: Advances Made Through the Formation of a Large-Scale, Long-Term Consortium for Integrated Understanding of Coastal Ecosystem Dynamics. Oceanography, 2019, 32, 16-25.	1.0	7
42	Exact probabilities for the indeterminacy of complex networks as perceived through press perturbations. Journal of Mathematical Biology, 2018, 76, 877-909.	1.9	6
43	Geometric Complexity and the Information-Theoretic Comparison of Functional-Response Models. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	6
44	Effects of predator novelty on intraguild predation communities with adaptive prey defense. Theoretical Ecology, 0, , .	1.0	1
45	PressPurt: network sensitivity to press perturbations under interaction uncertainty. F1000Research, 0, 11, 173.	1.6	0