

Andrew P Allen

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

16,575
citations

70961

41
h-index

123241

61
g-index

68
all docs

68
docs citations

68
times ranked

19676
citing authors

#	ARTICLE	IF	CITATIONS
1	TOWARD A METABOLIC THEORY OF ECOLOGY. <i>Ecology</i> , 2004, 85, 1771-1789.	1.5	5,745
2	Niche conservatism as an emerging principle in ecology and conservation biology. <i>Ecology Letters</i> , 2010, 13, 1310-1324.	3.0	1,387
3	Evolution and the latitudinal diversity gradient: speciation, extinction and biogeography. <i>Ecology Letters</i> , 2007, 10, 315-331.	3.0	1,361
4	Global Biodiversity, Biochemical Kinetics, and the Energetic-Equivalence Rule. <i>Science</i> , 2002, 297, 1545-1548.	6.0	717
5	Methane fluxes show consistent temperature dependence across microbial to ecosystem scales. <i>Nature</i> , 2014, 507, 488-491.	13.7	713
6	The predominance of quarter-power scaling in biology. <i>Functional Ecology</i> , 2004, 18, 257-282.	1.7	570
7	Linking the global carbon cycle to individual metabolism. <i>Functional Ecology</i> , 2005, 19, 202-213.	1.7	462
8	The rate of DNA evolution: Effects of body size and temperature on the molecular clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 140-145.	3.3	441
9	Kinetic effects of temperature on rates of genetic divergence and speciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9130-9135.	3.3	379
10	Reconciling the temperature dependence of respiration across timescales and ecosystem types. <i>Nature</i> , 2012, 487, 472-476.	13.7	369
11	Scaling metabolism from organisms to ecosystems. <i>Nature</i> , 2003, 423, 639-642.	13.7	360
12	Scaling of number, size, and metabolic rate of cells with body size in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4718-4723.	3.3	262
13	Towards an integration of ecological stoichiometry and the metabolic theory of ecology to better understand nutrient cycling. <i>Ecology Letters</i> , 2009, 12, 369-384.	3.0	255
14	On Theory in Ecology. <i>BioScience</i> , 2014, 64, 701-710.	2.2	195
15	Taller plants have lower rates of molecular evolution. <i>Nature Communications</i> , 2013, 4, 1879.	5.8	179
16	Assessing latitudinal gradients in speciation rates and biodiversity at the global scale. <i>Ecology Letters</i> , 2006, 9, 947-954.	3.0	176
17	Adult and larval traits as determinants of geographic range size among tropical reef fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16498-16502.	3.3	157
18	The metabolic basis of whole-organism RNA and phosphorus content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11923-11927.	3.3	151

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19	Allometry and stoichiometry of unicellular, colonial and multicellular phytoplankton. <i>New Phytologist</i> , 2009, 181, 295-309.	3.5	138
20	Energetics of life on the deep seafloor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15366-15371.	3.3	133
21	Development of combined microstructure and structure characterization facility for <i>in situ</i> and <i>operando</i> studies at the Advanced Photon Source. <i>Journal of Applied Crystallography</i> , 2018, 51, 867-882.	1.9	129
22	Concordance of taxonomic composition patterns across multiple lake assemblages: effects of scale, body size, and land use. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 2029-2040.	0.7	128
23	Allometric scaling of maximum population density: a common rule for marine phytoplankton and terrestrial plants. <i>Ecology Letters</i> , 2002, 5, 611-613.	3.0	120
24	Does the exception prove the rule?. <i>Nature</i> , 2007, 445, E9-E10.	13.7	118
25	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. <i>PLoS Biology</i> , 2015, 13, e1002324.	2.6	111
26	Population fluctuations, power laws and mixtures of lognormal distributions. <i>Ecology Letters</i> , 2001, 4, 1-3.	3.0	109
27	Response to Clarke and Fraser: effects of temperature on metabolic rate. <i>Functional Ecology</i> , 2006, 20, 400-404.	1.7	102
28	The metabolic theory of ecology: prospects and challenges for plant biology. <i>New Phytologist</i> , 2010, 188, 696-710.	3.5	102
29	Temperature and the biogeography of algal stoichiometry. <i>Global Ecology and Biogeography</i> , 2015, 24, 562-570.	2.7	98
30	Concordance of taxonomic richness patterns across multiple assemblages in lakes of the northeastern United States. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 739-747.	0.7	95
31	Paleo-Antarctic rainforest into the modern Old World tropics: The rich past and threatened future of the southern wet forest survivors. <i>American Journal of Botany</i> , 2014, 101, 2121-2135.	0.8	87
32	Linking community size structure and ecosystem functioning using metabolic theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2998-3007.	1.8	86
33	Temperature-dependence of biomass accumulation rates during secondary succession. <i>Ecology Letters</i> , 2006, 9, 673-682.	3.0	80
34	LINKING GLOBAL PATTERNS IN BIODIVERSITY TO EVOLUTIONARY DYNAMICS USING METABOLIC THEORY. <i>Ecology</i> , 2007, 88, 1890-1894.	1.5	66
35	The Temperature Dependence of the Carbon Cycle in Aquatic Ecosystems. <i>Advances in Ecological Research</i> , 2010, 43, 267-313.	1.4	63
36	Recasting the species-energy hypothesis: the different roles of kinetic and potential energy in regulating biodiversity. , 0, , 283-299.		60

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37	Dinosaur Fossils Predict Body Temperatures. <i>PLoS Biology</i> , 2006, 4, e248.	2.6	60
38	NEUTRAL BIODIVERSITY THEORY CAN EXPLAIN THE IMBALANCE OF PHYLOGENETIC TREES BUT NOT THE TEMPO OF THEIR DIVERSIFICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1841-1850.	1.1	57
39	The mechanistic basis of the metabolic theory of ecology. <i>Oikos</i> , 2007, 116, 1073-1077.	1.2	49
40	Effects of metabolic rate on protein evolution. <i>Biology Letters</i> , 2007, 3, 655-660.	1.0	48
41	RESPONSE TO FORUM COMMENTARY ON "TOWARD A METABOLIC THEORY OF ECOLOGY" <i>Ecology</i> , 2004, 85, 1818-1821.	1.5	47
42	Setting the absolute tempo of biodiversity dynamics. <i>Ecology Letters</i> , 2007, 10, 637-646.	3.0	46
43	The energetics of fish growth and how it constrains foodweb trophic structure. <i>Ecology Letters</i> , 2018, 21, 836-844.	3.0	46
44	Interactive effects of land use and other factors on regional bird distributions. <i>Journal of Biogeography</i> , 2000, 27, 889-900.	1.4	42
45	The metabolic theory of ecology and the role of body size in marine and freshwater ecosystems. , 2007, 1-15.		41
46	Hierarchical Correlates of Bird Assemblage Structure on Northeastern U.S.A. Lakes. , 2000, 62, 15-37.		38
47	Allometry, growth and population regulation of the desert shrub <i>Larrea tridentata</i> . <i>Functional Ecology</i> , 2008, 22, 197-204.	1.7	38
48	Assessing the role of cladogenesis in macroevolution by integrating fossil and molecular evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2904-2909.	3.3	38
49	A decadal decline in relative abundance and a shift in microphytoplankton composition at a long-term coastal station off southeast Australia. <i>Limnology and Oceanography</i> , 2014, 59, 519-531.	1.6	38
50	Characterizing the dynamics of amino acid racemization using time-dependent reaction kinetics: A Bayesian approach to fitting age-calibration models. <i>Quaternary Geochronology</i> , 2013, 18, 63-77.	0.6	36
51	Heat and Biodiversity. <i>Science</i> , 2003, 299, 512-513.	6.0	33
52	TIME-AVERAGING AND STRATIGRAPHIC RESOLUTION IN DEATH ASSEMBLAGES AND HOLOCENE DEPOSITS: SYDNEY HARBOUR'S MOLLUSCAN RECORD. <i>Palaios</i> , 2016, 31, 563-574.	0.6	31
53	Changes in body temperature influence the scaling of and aerobic scope in mammals. <i>Biology Letters</i> , 2007, 3, 100-103.	1.0	27
54	Seafarers or castaways: ecological traits associated with rafting dispersal in tropical reef fishes. <i>Journal of Biogeography</i> , 2015, 42, 2323-2333.	1.4	27

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55	Using Traits to Assess Nontransitivity of Interactions among Coral Species. <i>American Naturalist</i> , 2017, 190, 420-429.	1.0	16
56	Energetic constraints on an early developmental stage: a comparative view. <i>Biology Letters</i> , 2008, 4, 123-126.	1.0	11
57	On the Importance of First Principles in Ecological Theory Development. <i>BioScience</i> , 2015, 65, 342-343.	2.2	11
58	Concatenation of "alert" and "identity" segments in dingoes' alarm calls. <i>Scientific Reports</i> , 2016, 6, 30556.	1.6	11
59	Embracing general theory and taxon-level idiosyncrasies to explain nutrient recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6248-6249.	3.3	8
60	The Random Nature of Genome Architecture: Predicting Open Reading Frame Distributions. <i>PLoS ONE</i> , 2009, 4, e6456.	1.1	7
61	The mechanistic basis of the metabolic theory of ecology. , 2007, 116, 1073.		4
62	Foreword to the special issue on advanced neutron scattering instrumentation. <i>Journal of Applied Crystallography</i> , 2018, 51, 567-569.	1.9	3
63	Pre-release dietary supplements of methoprene and raspberry ketone increase field abundance of sterile Queensland fruit flies (Diptera: Tephritidae). <i>Journal of Economic Entomology</i> , 2021, 114, 2147-2154.	0.8	2
64	Reply to Aze et al.: Distinguishing speciation modes based on multiple lines of evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2947-E2947.	3.3	1
65	Extended pre-release holding with raspberry ketone and methoprene as supplements: Field performance of <i>Bactrocera tryoni</i> males. <i>Journal of Applied Entomology</i> , 2022, 146, 106-117.	0.8	0