

Daniel L Rabosky

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

13,319
citations

50276

46
h-index

37204

96
g-index

107
all docs

107
docs citations

107
times ranked

10534
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of the Cretaceous Terrestrial Revolution and KPg Extinction on Mammal Diversification. <i>Science</i> , 2011, 334, 521-524.	12.6	1,264
2	Automatic Detection of Key Innovations, Rate Shifts, and Diversity-Dependence on Phylogenetic Trees. <i>PLoS ONE</i> , 2014, 9, e89543.	2.5	933
3	Nine exceptional radiations plus high turnover explain species diversity in jawed vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13410-13414.	7.1	756
4	<scp>BAMM</scp>tools: an R package for the analysis of evolutionary dynamics on phylogenetic trees. <i>Methods in Ecology and Evolution</i> , 2014, 5, 701-707.	5.2	751
5	An inverse latitudinal gradient in speciation rate for marine fishes. <i>Nature</i> , 2018, 559, 392-395.	27.8	579
6	Rates of speciation and morphological evolution are correlated across the largest vertebrate radiation. <i>Nature Communications</i> , 2013, 4, 1958.	12.8	531
7	EXTINCTION RATES SHOULD NOT BE ESTIMATED FROM MOLECULAR PHYLOGENIES. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1816-1824.	2.3	492
8	Macroevolutionary Dynamics and Historical Biogeography of Primate Diversification Inferred from a Species Supermatrix. <i>PLoS ONE</i> , 2012, 7, e49521.	2.5	447
9	Model Inadequacy and Mistaken Inferences of Trait-Dependent Speciation. <i>Systematic Biology</i> , 2015, 64, 340-355.	5.6	431
10	Ecological limits and diversification rate: alternative paradigms to explain the variation in species richness among clades and regions. <i>Ecology Letters</i> , 2009, 12, 735-743.	6.4	410
11	Molecular Phylogenetics and the Diversification of Hummingbirds. <i>Current Biology</i> , 2014, 24, 910-916.	3.9	341
12	EXPLOSIVE EVOLUTIONARY RADIATIONS: DECREASING SPECIATION OR INCREASING EXTINCTION THROUGH TIME?. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1866-1875.	2.3	340
13	Density-dependent diversification in North American wood warblers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2363-2371.	2.6	323
14	Radiation of Extant Cetaceans Driven by Restructuring of the Oceans. <i>Systematic Biology</i> , 2009, 58, 573-585.	5.6	315
15	LASER: A Maximum Likelihood Toolkit for Detecting Temporal Shifts in Diversification Rates from Molecular Phylogenies. <i>Evolutionary Bioinformatics</i> , 2006, 2, 117693430600200.	1.2	266
16	Speciation dynamics during the global radiation of extant bats. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1528-1545.	2.3	257
17	Analysis and Visualization of Complex Macroevolutionary Dynamics: An Example from Australian Scincid Lizards. <i>Systematic Biology</i> , 2014, 63, 610-627.	5.6	242
18	Species Richness at Continental Scales Is Dominated by Ecological Limits. <i>American Naturalist</i> , 2015, 185, 572-583.	2.1	227

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19	Is BAMM Flawed? Theoretical and Practical Concerns in the Analysis of Multi-Rate Diversification Models. <i>Systematic Biology</i> , 2017, 66, 477-498.	5.6	227
20	Exceptional among-lineage variation in diversification rates during the radiation of Australia's most diverse vertebrate clade. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2915-2923.	2.6	216
21	Diversity-Dependence, Ecological Speciation, and the Role of Competition in Macroevolution. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013, 44, 481-502.	8.3	216
22	Equilibrium speciation dynamics in a model adaptive radiation of island lizards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22178-22183.	7.1	200
23	Clade Age and Species Richness Are Decoupled Across the Eukaryotic Tree of Life. <i>PLoS Biology</i> , 2012, 10, e1001381.	5.6	170
24	Ecological Limits on Clade Diversification in Higher Taxa. <i>American Naturalist</i> , 2009, 173, 662-674.	2.1	165
25	Diversity dynamics of marine planktonic diatoms across the Cenozoic. <i>Nature</i> , 2009, 457, 183-186.	27.8	138
26	Coral snakes predict the evolution of mimicry across New World snakes. <i>Nature Communications</i> , 2016, 7, 11484.	12.8	126
27	A Robust Semi-Parametric Test for Detecting Trait-Dependent Diversification. <i>Systematic Biology</i> , 2016, 65, 181-193.	5.6	125
28	No substitute for real data: A cautionary note on the use of phylogenies from birth-death polytomy resolvers for downstream comparative analyses. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 3207-3216.	2.3	121
29	LASER: a maximum likelihood toolkit for detecting temporal shifts in diversification rates from molecular phylogenies. <i>Evolutionary Bioinformatics</i> , 2007, 2, 273-6.	1.2	114
30	Macroevolutionary speciation rates are decoupled from the evolution of intrinsic reproductive isolation in <i>Drosophila</i> and birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15354-15359.	7.1	110
31	RATES OF MORPHOLOGICAL EVOLUTION ARE CORRELATED WITH SPECIES RICHNESS IN SALAMANDERS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1807-1818.	2.3	108
32	Tip rates, phylogenies and diversification: What are we estimating, and how good are the estimates?. <i>Methods in Ecology and Evolution</i> , 2019, 10, 821-834.	5.2	108
33	Reinventing species selection with molecular phylogenies. <i>Trends in Ecology and Evolution</i> , 2010, 25, 68-74.	8.7	100
34	Challenges in the estimation of extinction from molecular phylogenies: A response to Beaulieu and O'Meara. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 218-228.	2.3	89
35	Likelihood methods for detecting temporal shifts in diversification rates. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1152-64.	2.3	87
36	An <code>r</code> package and online resource for macroevolutionary studies using the ray-finned fish tree of life. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1118-1124.	5.2	85

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37	FiSSE: A simple nonparametric test for the effects of a binary character on lineage diversification rates. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 1432-1442.	2.3	82
38	Positive association between population genetic differentiation and speciation rates in New World birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6328-6333.	7.1	80
39	Heritability of Extinction Rates Links Diversification Patterns in Molecular Phylogenies and Fossils. <i>Systematic Biology</i> , 2009, 58, 629-640.	5.6	75
40	Beyond Reproductive Isolation: Demographic Controls on the Speciation Process. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2019, 50, 75-95.	8.3	66
41	Estimating Diversification Rates on Incompletely Sampled Phylogenies: Theoretical Concerns and Practical Solutions. <i>Systematic Biology</i> , 2020, 69, 602-611.	5.6	66
42	Python phylogenetics: inference from morphology and mitochondrial DNA. <i>Biological Journal of the Linnean Society</i> , 0, 93, 603-619.	1.6	63
43	Reproductive isolation and the causes of speciation rate variation in nature. <i>Biological Journal of the Linnean Society</i> , 2016, 118, 13-25.	1.6	60
44	Phylogenetic tests for evolutionary innovation: the problematic link between key innovations and exceptional diversification. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160417.	4.0	60
45	Continuous traits and speciation rates: Alternatives to state-dependent diversification models. <i>Methods in Ecology and Evolution</i> , 2018, 9, 984-993.	5.2	59
46	Primary Controls on Species Richness in Higher Taxa. <i>Systematic Biology</i> , 2010, 59, 634-645.	5.6	58
47	Phenotypic Evolution in Fossil Species: Pattern and Process. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 421-441.	11.0	58
48	Sexual Selection and Diversification: Reexamining the Correlation between Dichromatism and Speciation Rate in Birds. <i>American Naturalist</i> , 2014, 184, E101-E114.	2.1	56
49	Minimal effects of latitude on present-day speciation rates in New World birds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142889.	2.6	55
50	Species Interactions Mediate Phylogenetic Community Structure in a Hyperdiverse Lizard Assemblage from Arid Australia. <i>American Naturalist</i> , 2011, 178, 579-595.	2.1	48
51	Bayesian model selection with BAMM: effects of the model prior on the inferred number of diversification shifts. <i>Methods in Ecology and Evolution</i> , 2017, 8, 37-46.	5.2	46
52	On Age and Species Richness of Higher Taxa. <i>American Naturalist</i> , 2014, 184, 447-455.	2.1	44
53	Biodiversity across space and time in the fossil record. <i>Current Biology</i> , 2021, 31, R1225-R1236.	3.9	43
54	BAMM at the court of false equivalency: A response to Meyer and Wiens. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2246-2256.	2.3	41

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55	Thermal physiological traits in tropical lowland amphibians: Vulnerability to climate warming and cooling. <i>PLoS ONE</i> , 2019, 14, e0219759.	2.5	39
56	Speciation rate and the diversity of fishes in freshwaters and the oceans. <i>Journal of Biogeography</i> , 2020, 47, 1207-1217.	3.0	39
57	Inferring Diversification Rate Variation From Phylogenies With Fossils. <i>Systematic Biology</i> , 2018, 68, 1-18.	5.6	38
58	Overdispersion of body size in Australian desert lizard communities at local scales only: no evidence for the Narcissus effect. <i>Oecologia</i> , 2007, 154, 561-570.	2.0	36
59	Squamate Conserved Loci (Squ<sc>CL</sc>): A unified set of conserved loci for phylogenomics and population genetics of squamate reptiles. <i>Molecular Ecology Resources</i> , 2017, 17, e12-e24.	4.8	36
60	Real<sup>w</sup>orld conservation planning for evolutionary diversity in the Kimberley, Australia, sidesteps uncertain taxonomy. <i>Conservation Letters</i> , 2018, 11, e12438.	5.7	35
61	Does Population Structure Predict the Rate of Speciation? A Comparative Test across Australia<sup>TM</sup>s Most Diverse Vertebrate Radiation. <i>American Naturalist</i> , 2018, 192, 432-447.	2.1	35
62	Congruence and Conflict in the Higher-Level Phylogenetics of Squamate Reptiles: An Expanded Phylogenomic Perspective. <i>Systematic Biology</i> , 2021, 70, 542-557.	5.6	35
63	POSITIVE CORRELATION BETWEEN DIVERSIFICATION RATES AND PHENOTYPIC EVOLVABILITY CAN MIMIC PUNCTUATED EQUILIBRIUM ON MOLECULAR PHYLOGENIES. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 2622-2627.	2.3	32
64	Disentangling the influence of climatic and geological changes on species radiations. <i>Journal of Biogeography</i> , 2014, 41, 1313-1325.	3.0	30
65	Phylogenetic disassembly of species boundaries in a widespread group of Australian skinks (Scincidae:). Tj ETQq1 1 0,784314,rgBT /Over	2.7	30
66	Trophic divergence despite morphological convergence in a continental radiation of snakes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140413.	2.6	29
67	Rapid increase in snake dietary diversity and complexity following the end-Cretaceous mass extinction. <i>PLoS Biology</i> , 2021, 19, e3001414.	5.6	26
68	Testing the time<sup>f</sup>or<sup>â</sup> speciation effect in the assembly of regional biotas. <i>Methods in Ecology and Evolution</i> , 2012, 3, 224-233.	5.2	25
69	Molecular evidence for hybridization between two Australian desert skinks, <i>Ctenotus leonhardii</i> and <i>Ctenotus quattuordecimlineatus</i> (Scincidae: Squamata). <i>Molecular Phylogenetics and Evolution</i> , 2009, 53, 368-377.	2.7	24
70	What makes a fang? Phylogenetic and ecological controls on tooth evolution in rear-fanged snakes. <i>BMC Evolutionary Biology</i> , 2020, 20, 80.	3.2	22
71	Problems detecting density-dependent diversification on phylogenies: reply to Bokma. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 995-997.	2.6	20
72	Detecting Lineage-Specific Shifts in Diversification: A Proper Likelihood Approach. <i>Systematic Biology</i> , 2021, 70, 389-407.	5.6	20

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73	Do Macrophylogenies Yield Stable Macroevolutionary Inferences? An Example from Squamate Reptiles. <i>Systematic Biology</i> , 2017, 66, syw102.	5.6	19
74	Genetic diversity is largely unpredictable but scales with museum occurrences in a species-rich clade of Australian lizards. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162588.	2.6	18
75	Digitizing extant bat diversity: An open-access repository of 3D µCT-scanned skulls for research and education. <i>PLoS ONE</i> , 2018, 13, e0203022.	2.5	18
76	Is genomic diversity a useful proxy for census population size? Evidence from a species-rich community of desert lizards. <i>Molecular Ecology</i> , 2019, 28, 1664-1674.	3.9	18
77	Sex-linked genomic variation and its relationship to avian plumage dichromatism and sexual selection. <i>BMC Evolutionary Biology</i> , 2015, 15, 199.	3.2	17
78	Phylogenies and Diversification Rates: Variance Cannot Be Ignored. <i>Systematic Biology</i> , 2019, 68, 538-550.	5.6	17
79	Ecological and biogeographic drivers of biodiversity cannot be resolved using clade age-richness data. <i>Nature Communications</i> , 2021, 12, 2945.	12.8	16
80	Evolutionary radiation of earless frogs in the Andes: molecular phylogenetics and habitat shifts in high-elevation terrestrial breeding frogs. <i>PeerJ</i> , 2018, 6, e4313.	2.0	16
81	Complex Ecological Phenotypes on Phylogenetic Trees: A Markov Process Model for Comparative Analysis of Multivariate Count Data. <i>Systematic Biology</i> , 2020, 69, 1200-1211.	5.6	15
82	A return-on-investment approach for prioritization of rigorous taxonomic research needed to inform responses to the biodiversity crisis. <i>PLoS Biology</i> , 2021, 19, e3001210.	5.6	15
83	Unlinked Mendelian inheritance of red and black pigmentation in snakes: Implications for Batesian mimicry. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 944-953.	2.3	14
84	No link between population isolation and speciation rate in squamate reptiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	13
85	Desert lizard diversity worldwide: Effects of environment, time, and evolutionary rate. <i>Global Ecology and Biogeography</i> , 2022, 31, 776-790.	5.8	11
86	Evolutionary Bangs and Whimpers: Methodological Advances and Conceptual Frameworks for Studying Exceptional Diversification. <i>Systematic Biology</i> , 2010, 59, 615-618.	5.6	10
87	Ecomorphological and phylogenetic controls on sympatry across extant bats. <i>Journal of Biogeography</i> , 2018, 45, 1560-1570.	3.0	10
88	Stable isotope ecology of a hyper-diverse community of scincid lizards from arid Australia. <i>PLoS ONE</i> , 2017, 12, e0172879.	2.5	8
89	The Western Amazonian Richness Gradient for Squamate Reptiles: Are There Really Fewer Snakes and Lizards in Southwestern Amazonian Lowlands?. <i>Diversity</i> , 2019, 11, 199.	1.7	8
90	Trophic evolution in African citharinoid fishes (Teleostei: Characiformes) and the origin of intraordinal pterygophagy. <i>Molecular Phylogenetics and Evolution</i> , 2017, 113, 23-32.	2.7	7

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91	Speciation in the mountains and dispersal by rivers: Molecular phylogeny of <i>Eulamprus</i> water skinks and the biogeography of Eastern Australia. <i>Journal of Biogeography</i> , 2018, 45, 2040-2052.	3.0	7
92	Metabolically similar cohorts of bacteria exhibit strong cooccurrence patterns with diet items and eukaryotic microbes in lizard guts. <i>Ecology and Evolution</i> , 2019, 9, 12471-12481.	1.9	7
93	A test for rate-coupling of trophic and cranial evolutionary dynamics in New World bats. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 861-875.	2.3	6
94	Genetic and Ecogeographic Controls on Species Cohesion in Australia's Most Diverse Lizard Radiation. <i>American Naturalist</i> , 2022, 199, E57-E75.	2.1	6
95	Genetic variability and the ecology of geographic range: A test of the central-marginal hypothesis in Australian scincid lizards. <i>Molecular Ecology</i> , 2022, 31, 4242-4253.	3.9	5
96	Lizards in pinstripes: morphological and genomic evidence for two new species of scincid lizards within <i>Ctenotus piankai</i> Storr and <i>C. duricola</i> Storr (Reptilia: Scincidae) in the Australian arid zone. <i>Zootaxa</i> , 2017, 4303, 1.	0.5	3
97	Macroevolutionary thermodynamics: Temperature and the tempo of evolution in the tropics. <i>PLoS Biology</i> , 2021, 19, e3001368.	5.6	2
98	Speciation. <i>Auk</i> , 2005, 122, 371-373.	1.4	0
99	Speciation in Birds and More. <i>Conservation Biology</i> , 2009, 23, 506-508.	4.7	0
100	Speciation. <i>Auk</i> , 2005, 122, 371.	1.4	0
101	Fast Likelihood Calculations for Automatic Identification of Macroevolutionary Rate Heterogeneity in Continuous and Discrete Traits. <i>Systematic Biology</i> , 2022, 71, 1307-1318.	5.6	0