Luke J Harmon

List of Publications by Year
in descending order

90 papers	13,431 citations	47409 49 h-index	49824 91 g-index
94 all docs	94 docs citations	94 times ranked	14797 citing authors

#	Article	IF	Citations
1	Uncovering Cryptic Coevolution. American Naturalist, 2022, 199, 869-880.	1.0	3
2	Estimation of the strength of mate preference from mated pairs observed in the wild. Evolution; International Journal of Organic Evolution, 2022, 76, 29-41.	1.1	2
3	Mating behavior and reproductive morphology predict macroevolution of sex allocation in hermaphroditic flatworms. BMC Biology, 2022, 20, 35.	1.7	6
4	Causes and Consequences of Apparent Timescaling Across All Estimated Evolutionary Rates. Annual Review of Ecology, Evolution, and Systematics, 2021, 52, 587-609.	3.8	23
5	When adaptive radiations collide: Different evolutionary trajectories between and within island and mainland lizard clades. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
6	Comparing Adaptive Radiations Across Space, Time, and Taxa. Journal of Heredity, 2020, 111, 1-20.	1.0	146
7	Hybridizing salamanders experience accelerated diversification. Scientific Reports, 2020, 10, 6566.	1.6	16
8	Macroevolutionary diversification rates show time dependency. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7403-7408.	3.3	64
9	Detecting the macroevolutionary signal of species interactions. Journal of Evolutionary Biology, 2019, 32, 769-782.	0.8	66
10	Reply to Wiens and Scholl: The time dependency of diversification rates is a widely observed phenomenon. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24401-24401.	3.3	0
11	Identifying models of traitâ€mediated community assembly using random forests and approximate Bayesian computation. Ecology and Evolution, 2019, 9, 13218-13230.	0.8	14
12	The choice of tree prior and molecular clock does not substantially affect phylogenetic inferences of diversification rates. PeerJ, 2019, 7, e6334.	0.9	30
13	Building up biogeography: Pattern to process. Journal of Biogeography, 2018, 45, 1223-1230.	1.4	25
14	A General Model for Estimating Macroevolutionary Landscapes. Systematic Biology, 2018, 67, 304-319.	2.7	35
15	Deciphering the Interdependence between Ecological and Evolutionary Networks. Trends in Ecology and Evolution, 2018, 33, 504-512.	4.2	28
16	Evolution in a Community Context: On Integrating Ecological Interactions and Macroevolution. Trends in Ecology and Evolution, 2017, 32, 291-304.	4.2	129
17	Evolution: Contingent Predictability in Mammalian Evolution. Current Biology, 2017, 27, R425-R428.	1.8	1
18	ratematrix: An <scp>R</scp> package for studying evolutionary integration among several traits on phylogenetic trees. Methods in Ecology and Evolution, 2017, 8, 1920-1927.	2.2	45

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19	Radiating despite a Lack of Character: Ecological Divergence among Closely Related, Morphologically Similar Honeyeaters (Aves: Meliphagidae) Co-occurring in Arid Australian Environments. American Naturalist, 2017, 189, E14-E30.	1.0	43
20	Fighting over food unites the birds of North America in a continental dominance hierarchy. Behavioral Ecology, 2017, 28, 1454-1463.	1.0	45
21	Thereâ€™s more than one way to climb a tree: Limb length and microhabitat use in lizards with toe pads. PLoS ONE, 2017, 12, e0184641.	1.1	14
22	Tempo and mode of performance evolution across multiple independent origins of adhesive toe pads in lizards. Evolution; International Journal of Organic Evolution, 2017, 71, 2344-2358.	1.1	22
23	A Comprehensive Study of Cyanobacterial Morphological and Ecological Evolutionary Dynamics through Deep Geologic Time. PLoS ONE, 2016, 11, e0162539.	1.1	69
24	Modeling observed animal performance using the Weibull distribution. Journal of Experimental Biology, 2016, 219, 1603-7.	0.8	8
25	Colonization of a novel depauperate habitat leads to trophic niche shifts in three desert lizard species. Oikos, 2016, 125, 343-353.	1.2	17
26	Nested radiations and the pulse of angiosperm diversification: increased diversification rates often follow whole genome duplications. New Phytologist, 2015, 207, 454-467.	3.5	315
27	Model Adequacy and the Macroevolution of Angiosperm Functional Traits. American Naturalist, 2015, 186, E33-E50.	1.0	154
28	Finding Our Way through Phenotypes. PLoS Biology, 2015, 13, e1002033.	2.6	178
29	Unifying ecology and macroevolution with individualâ€based theory. Ecology Letters, 2015, 18, 472-482.	3.0	59
30	Species Diversity Is Dynamic and Unbounded at Local and Continental Scales. American Naturalist, 2015, 185, 584-593.	1.0	185
31	Predicting rates of interspecific interaction from phylogenetic trees. Ecology Letters, 2015, 18, 17-27.	3.0	103
32	When Field Experiments Yield Unexpected Results: Lessons Learned from Measuring Selection in White Sands Lizards. PLoS ONE, 2015, 10, e0118560.	1.1	9
33	Is there room for punctuated equilibrium in macroevolution?. Trends in Ecology and Evolution, 2014, 29, 23-32.	4.2	95
34	Variation in setal micromechanics and performance of two gecko species. Zoomorphology, 2014, 133, 111-126.	0.4	20
35	Cichlid speciesâ€area relationships are shaped by adaptive radiations that scale with area. Ecology Letters, 2014, 17, 583-592.	3.0	101
36	Long-term morphological stasis maintained by a plantâ€“pollinator mutualism. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5914-5919.	3.3	83

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37	geiger v2.0: an expanded suite of methods for fitting macroevolutionary models to phylogenetic trees. Bioinformatics, 2014, 30, 2216-2218.	1.8	722
38	Beyond black and white: divergent behaviour and performance in three rapidly evolving lizard species at White Sands. Biological Journal of the Linnean Society, 2014, 111, 169-182.	0.7	10
39	A Novel Bayesian Method for Inferring and Interpreting the Dynamics of Adaptive Landscapes from Phylogenetic Comparative Data. Systematic Biology, 2014, 63, 902-918.	2.7	277
40	Unifying fossils and phylogenies for comparative analyses of diversification and trait evolution. Methods in Ecology and Evolution, 2013, 4, 699-702.	2.2	81
41	A unified model of species immigration, extinction and abundance on islands. Journal of Biogeography, 2013, 40, 1107-1118.	1.4	46
42	Congruification: support for time scaling large phylogenetic trees. Methods in Ecology and Evolution, 2013, 4, 688-691.	2.2	61
43	An integrative view of phylogenetic comparative methods: connections to population genetics, community ecology, and paleobiology. Annals of the New York Academy of Sciences, 2013, 1289, 90-105.	1.8	206
44	Arbor: Comparative Analysis Workflows for the Tree of Life. PLOS Currents, 2013, 5, .	1.4	14
45	Ecological and Evolutionary Effects of Stickleback on Community Structure. PLoS ONE, 2013, 8, e59644.	1.1	37
46	An Inordinate Fondness for Eukaryotic Diversity. PLoS Biology, 2012, 10, e1001382.	2.6	8
47	The case for ecological neutral theory. Trends in Ecology and Evolution, 2012, 27, 203-208.	4.2	261
48	Trees of Unusual Size: Biased Inference of Early Bursts from Large Molecular Phylogenies. PLoS ONE, 2012, 7, e43348.	1.1	42
49	Ecological opportunity and sexual selection together predict adaptive radiation. Nature, 2012, 487, 366-369.	13.7	412
50	Goldilocks Meets Santa Rosalia: An Ephemeral Speciation Model Explains Patterns of Diversification Across Time Scales. Evolutionary Biology, 2012, 39, 255-261.	0.5	195
51	FITTING MODELS OF CONTINUOUS TRAIT EVOLUTION TO INCOMPLETELY SAMPLED COMPARATIVE DATA USING APPROXIMATE BAYESIAN COMPUTATION. Evolution; International Journal of Organic Evolution, 2012, 66, 752-762.	1.1	77
52	INTEGRATING FOSSILS WITH MOLECULAR PHYLOGENIES IMPROVES INFERENCE OF TRAIT EVOLUTION. Evolution; International Journal of Organic Evolution, 2012, 66, 3931-3944.	1.1	279
53	How do species interactions affect species distribution models?. Ecography, 2012, 35, 811-820.	2.1	75
54	Brain Evolution Triggers Increased Diversification of Electric Fishes. Science, 2011, 332, 583-586.	6.0	96

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55	RBrownie: an R package for testing hypotheses about rates of evolutionary change. Methods in Ecology and Evolution, 2011, 2, 660-662.	2.2	11
56	â€œSAME SAME BUT DIFFERENTâ€• REPLICATED ECOLOGICAL SPECIATION AT WHITE SANDS. Evolution; International Journal of Organic Evolution, 2011, 65, 946-960.	1.1	106
57	EVIDENCE OF CONSTRAINED PHENOTYPIC EVOLUTION IN A CRYPTIC SPECIES COMPLEX OF AGAMID LIZARDS. Evolution; International Journal of Organic Evolution, 2011, 65, 976-992.	1.1	85
58	A NOVEL COMPARATIVE METHOD FOR IDENTIFYING SHIFTS IN THE RATE OF CHARACTER EVOLUTION ON TREES. Evolution; International Journal of Organic Evolution, 2011, 65, 3578-3589.	1.1	236
59	Testing for Temporal Variation in Diversification Rates When Sampling is Incomplete and Nonrandom. Systematic Biology, 2011, 60, 410-419.	2.7	65
60	Extinction Risk and Diversification Are Linked in a Plant Biodiversity Hotspot. PLoS Biology, 2011, 9, e1000620.	2.6	112
61	Cruise Foraging of Invasive Chameleon (Chamaeleo jacksonii xantholophus) In Hawai'i. Breviora, 2010, 519, 1-7.	0.2	11
62	POOR STATISTICAL PERFORMANCE OF THE MANTEL TEST IN PHYLOGENETIC COMPARATIVE ANALYSES. Evolution; International Journal of Organic Evolution, 2010, 64, 2173-8.	1.1	141
63	EARLY BURSTS OF BODY SIZE AND SHAPE EVOLUTION ARE RARE IN COMPARATIVE DATA. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	1.1	672
64	Sympatric and Allopatric Divergence of MHC Genes in Threespine Stickleback. PLoS ONE, 2010, 5, e10948.	1.1	51
65	Sexual Signal Evolution Outpaces Ecological Divergence during Electric Fish Species Radiation. American Naturalist, 2010, 176, 335-356.	1.0	148
66	Nine exceptional radiations plus high turnover explain species diversity in jawed vertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13410-13414.	3.3	756
67	Did genome duplication drive the origin of teleosts? A comparative study of diversification in ray-finned fishes. BMC Evolutionary Biology, 2009, 9, 194.	3.2	246
68	Evolutionary diversification in stickleback affects ecosystem functioning. Nature, 2009, 458, 1167-1170.	13.7	309
69	Ecological explanations for (incomplete) speciation. Trends in Ecology and Evolution, 2009, 24, 145-156.	4.2	612
70	Niche Evolution, Trophic Structure, and Species Turnover in Model Food Webs. American Naturalist, 2009, 174, 56-67.	1.0	40
71	Testing the island effect in adaptive radiation: rates and patterns of morphological diversification in Caribbean and mainlandAnolislizards. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2749-2757.	1.2	110
72	Phylogenetic Signal, Evolutionary Process, and Rate. Systematic Biology, 2008, 57, 591-601.	2.7	714

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73	The Role of Geography and Ecological Opportunity in the Diversification of Day Geckos (Phelsuma). Systematic Biology, 2008, 57, 562-573.	2.7	99
74	GEIGER: investigating evolutionary radiations. Bioinformatics, 2008, 24, 129-131.	1.8	2,121
75	Competition and community structure in diurnal arboreal geckos (genus Phelsuma) in the Indian Ocean. Oikos, 2007, 116, 1863-1878.	1.2	4
76	Effects of exotic species on evolutionary diversification. Trends in Ecology and Evolution, 2007, 22, 481-488.	4.2	144
77	Competition and community structure in diurnal arboreal geckos (genus Phelsuma) in the Indian Ocean. Oikos, 2007, 116, 1863-1878.	1.2	42
78	Evolution of Anolis Lizard Dewlap Diversity. PLoS ONE, 2007, 2, e274.	1.1	112
79	Intercontinental community convergence of ecology and morphology in desert lizards. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 557-563.	1.2	107
80	Multivariate phenotypic evolution among island and mainland populations of the ornate day gecko, Phelsuma ornata. Evolution; International Journal of Organic Evolution, 2006, 60, 2622-32.	1.1	6
81	THE EFFECT OF INTRASPECIFIC SAMPLE SIZE ON TYPE I AND TYPE II ERROR RATES IN COMPARATIVE STUDIES. Evolution; International Journal of Organic Evolution, 2005, 59, 2705-2710.	1.1	92
82	CONVERGENCE AND THE MULTIDIMENSIONAL NICHE. Evolution; International Journal of Organic Evolution, 2005, 59, 409-421.	1.1	185
83	PHYLOGENETIC ANALYSIS OF ECOMORPHOLOGICAL DIVERGENCE, COMMUNITY STRUCTURE, AND DIVERSIFICATION RATES IN DUSKY SALAMANDERS (PLETHODONTIDAE: DESMOGNATHUS). Evolution; International Journal of Organic Evolution, 2005, 59, 2000-2016.	1.1	139
84	What free-ranging animals do at the zoo: a study of the behavior and habitat use of opossums (Didelphis virginiana) on the grounds of the St. Louis Zoo. Zoo Biology, 2005, 24, 197-213.	0.5	17
85	Under-parameterized Model of Sequence Evolution Leads to Bias in the Estimation of Diversification Rates from Molecular Phylogenies. Systematic Biology, 2005, 54, 973-983.	2.7	93
86	Resolving Deep Phylogenetic Relationships in Salamanders: Analyses of Mitochondrial and Nuclear Genomic Data. Systematic Biology, 2005, 54, 758-777.	2.7	52
87	THE EFFECT OF INTRASPECIFIC SAMPLE SIZE ON TYPE I AND TYPE II ERROR RATES IN COMPARATIVE STUDIES. Evolution; International Journal of Organic Evolution, 2005, 59, 2705.	1.1	2
88	Convergence and the multidimensional niche. Evolution; International Journal of Organic Evolution, 2005, 59, 409-21.	1.1	42
89	The effect of intraspecific sample size on type I and type II error rates in comparative studies. Evolution; International Journal of Organic Evolution, 2005, 59, 2705-10.	1.1	30
90	Tempo and Mode of Evolutionary Radiation in Iguanian Lizards. Science, 2003, 301, 961-964.	6.0	597