Jonathan B Losos

List of Publications by Year
in descending order

134 papers	17,311 citations	16437 64 h-index	16164 124 g-index
197 all docs	197 docs citations	197 times ranked	13746 citing authors

#	Article	IF	Citations
1	Phylogenetic niche conservatism, phylogenetic signal and the relationship between phylogenetic relatedness and ecological similarity among species. Ecology Letters, 2008, 11, 995-1003.	3.0	1,311
2	Genetic variation increases during biological invasion by a Cuban lizard. Nature, 2004, 431, 177-181.	13.7	895
3	Adaptation and diversification on islands. Nature, 2009, 457, 830-836.	13.7	786
4	CONVERGENCE, ADAPTATION, AND CONSTRAINT. Evolution; International Journal of Organic Evolution, 2011, 65, 1827-1840.	1.1	760
5	Ecomorphology, Performance Capability, and Scaling of West Indian Anolis Lizards: An Evolutionary Analysis. Ecological Monographs, 1990, 60, 369-388.	2.4	563
6	Adaptive Radiation, Ecological Opportunity, and Evolutionary Determinism. American Naturalist, 2010, 175, 623-639.	1.0	532
7	Analysis of an evolutionary speciesâ€“area relationship. Nature, 2000, 408, 847-850.	13.7	510
8	Lizards in an Evolutionary Tree. , 2019, , .		481
9	Adaptive differentiation following experimental island colonization in Anolis lizards. Nature, 1997, 387, 70-73.	13.7	421
10	Contingency and determinism in evolution: Replaying lifeâ€™s tape. Science, 2018, 362, .	6.0	416
11	Exceptional Convergence on the Macroevolutionary Landscape in Island Lizard Radiations. Science, 2013, 341, 292-295.	6.0	384
12	Ecological Opportunity and Adaptive Radiation. Annual Review of Ecology, Evolution, and Systematics, 2016, 47, 507-532.	3.8	359
13	A comparative analysis of clinging ability among pad-bearing lizards. Biological Journal of the Linnean Society, 1996, 59, 21-35.	0.7	325
14	The Evolution of Form and Function: Morphology and Locomotor Performance in West Indian Anolis Lizards. Evolution; International Journal of Organic Evolution, 1990, 44, 1189.	1.1	317
15	Niche lability in the evolution of a Caribbean lizard community. Nature, 2003, 424, 542-545.	13.7	282
16	The Effects of Morphology and Perch Diameter on Sprint Performance of Anolis Lizards. Journal of Experimental Biology, 1989, 145, 23-30.	0.8	268
17	THE EVOLUTION OF FORM AND FUNCTION: MORPHOLOGY AND LOCOMOTOR PERFORMANCE IN WEST INDIANANOLISLIZARDS. Evolution; International Journal of Organic Evolution, 1990, 44, 1189-1203.	1.1	244
18	A COMPARATIVE ANALYSIS OF THE ECOLOGICAL SIGNIFICANCE OF MAXIMAL LOCOMOTOR PERFORMANCE IN CARIBBEAN ANOLIS LIZARDS. Evolution; International Journal of Organic Evolution, 1998, 52, 219-226.	1.1	240

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19	Seeing the Forest for the Trees: The Limitations of Phylogenies in Comparative Biology. American Naturalist, 2011, 177, 709-727.	1.0	239
20	Phylogenetic Relationships and Tempo of Early Diversification in Anolis Lizards. Systematic Biology, 1999, 48, 254-285.	2.7	227
21	Do Lizards Avoid Habitats in Which Performance Is Submaximal? The Relationship between Sprinting Capabilities and Structural Habitat Use in Caribbean Anoles. American Naturalist, 1999, 154, 293-305.	1.0	218
22	Predator-induced behaviour shifts and natural selection in field-experimental lizard populations. Nature, 2004, 432, 505-508.	13.7	213
23	Island biogeography of the Anthropocene. Nature, 2014, 513, 543-546.	13.7	206
24	Winter storms drive rapid phenotypic, regulatory, and genomic shifts in the green anole lizard. Science, 2017, 357, 495-498.	6.0	204
25	Mainland colonization by island lizards. Journal of Biogeography, 2005, 32, 929-938.	1.4	195
26	The effect of perch diameter on escape behaviour ofAnolis lizards: laboratory predictions and field tests. Animal Behaviour, 1996, 51, 593-602.	0.8	194
27	Integrative Approaches to Evolutionary Ecology: Anolis Lizards as Model Systems. Annual Review of Ecology, Evolution, and Systematics, 1994, 25, 467-493.	6.7	186
28	CONVERGENCE AND THE MULTIDIMENSIONAL NICHE. Evolution; International Journal of Organic Evolution, 2005, 59, 409-421.	1.1	185
29	Sexual dimorphism and adaptive radiation in Anolis lizards. Nature, 2007, 447, 202-205.	13.7	179
30	MULTIVARIATE SEXUAL DIMORPHISM, SEXUAL SELECTION, AND ADAPTATION IN GREATER ANTILLEAN ANOLIS LIZARDS. Ecological Monographs, 2002, 72, 541-559.	2.4	166
31	A COMPARISON OF EVOLUTIONARY RADIATIONS IN MAINLAND AND CARIBBEANANOLISLIZARDS. Ecology, 1997, 78, 2191-2203.	1.5	165
32	Cautionary comments on the measurement of maximum locomotor capabilities. Journal of Zoology, 2002, 258, 57-61.	0.8	156
33	Evolutionary stasis and lability in thermal physiology in a group of tropical lizards. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132433.	1.2	149
34	A developmental staging series for the lizard genus Anolis: A new system for the integration of evolution, development, and ecology. Journal of Morphology, 2008, 269, 129-137.	0.6	139
35	Ecological and evolutionary implications of diet in monitor lizards. Biological Journal of the Linnean Society, 1988, 35, 379-407.	0.7	135
36	A Comparative Study of Population Density and Sexual Size Dimorphism in Lizards. American Naturalist, 1997, 149, 64-90.	1.0	132

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37	Founder Effects Persist Despite Adaptive Differentiation: A Field Experiment with Lizards. Science, 2012, 335, 1086-1089.	6.0	127
38	Concordant evolution of locomotor behaviour, display rate and morphology in Anolis lizards. Animal Behaviour, 1990, 39, 879-890.	0.8	126
39	Predators increase the risk of catastrophic extinction of prey populations. Nature, 2001, 412, 183-186.	13.7	125
40	EVOLUTIONARY IMPLICATIONS OF PHENOTYPIC PLASTICITY IN THE HINDLIMB OF THE LIZARDANOLIS SAGREI. Evolution; International Journal of Organic Evolution, 2000, 54, 301-305.	1.1	123
41	Rapid Temporal Reversal in Predator-Driven Natural Selection. Science, 2006, 314, 1111-1111.	6.0	122
42	PHYLOGENETIC ANALYSIS OF ECOLOGICAL AND MORPHOLOGICAL DIVERSIFICATION IN HISPANIOLAN TRUNK-GROUND ANOLES (ANOLIS CYBOTES GROUP). Evolution; International Journal of Organic Evolution, 2003, 57, 2383-2397.	1.1	120
43	Testing the Hypothesis That a Clade Has Adaptively Radiated: Iguanid Lizard Clades as a Case Study. American Naturalist, 2002, 160, 147-157.	1.0	119
44	Admixture determines genetic diversity and population differentiation in the biological invasion of a lizard species. Biology Letters, 2008, 4, 434-437.	1.0	119
45	Evolutionary Biology for the 21st Century. PLoS Biology, 2013, 11, e1001466.	2.6	115
46	An Experimental Demonstration of the Species-Recognition Role of Anolis Dewlap Color. Copeia, 1985, 1985, 905.	1.4	113
47	Evolution of Anolis Lizard Dewlap Diversity. PLoS ONE, 2007, 2, e274.	1.1	112
48	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
49	ROLES FOR MODULARITY AND CONSTRAINT IN THE EVOLUTION OF CRANIAL DIVERSITY AMONGANOLISLIZARDS. Evolution; International Journal of Organic Evolution, 2012, 66, 1525-1542.	1.1	109
50	Predator-induced collapse of niche structure and species coexistence. Nature, 2019, 570, 58-64.	13.7	109
51	Habitat use and ecological interactions of an introduced and a native species of Anolis lizard on Grand Cayman, with a review of the outcomes of anole introductions. Oecologia, 1993, 95, 525-532.	0.9	108
52	ADAPTATION AND CONSTRAINT IN THE EVOLUTION OF SPECIALIZATION OF BAHAMIAN ANOLIS LIZARDS. Evolution; International Journal of Organic Evolution, 1994, 48, 1786-1798.	1.1	108
53	Hurricane-induced selection on the morphology of an island lizard. Nature, 2018, 560, 88-91.	13.7	108
54	Predator-driven natural selection on risk-taking behavior in anole lizards. Science, 2018, 360, 1017-1020.	6.0	107

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55	A Comparative Analysis of the Ecological Significance of Maximal Locomotor Performance in Caribbean Anolis Lizards. Evolution; International Journal of Organic Evolution, 1998, 52, 219.	1.1	101
56	Thermoregulatory Behavior Simultaneously Promotes and Forestalls Evolution in a Tropical Lizard. American Naturalist, 2018, 191, E15-E26.	1.0	101
57	Ecological Morphology of Caribbean Anoles. Herpetological Monographs, 1999, 13, 1.	1.1	100
58	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
59	From low to high gear: there has been a paradigm shift in our understanding of evolution. Ecology Letters, 2019, 22, 233-244.	3.0	84
60	THE RELATIONSHIP BETWEEN SEXUAL SIZE DIMORPHISM AND HABITAT USE IN GREATER ANTILLEANANOLISLIZARDS. Evolution; International Journal of Organic Evolution, 2000, 54, 259-272.	1.1	80
61	CONVERGENT EVOLUTION OF SEXUAL DIMORPHISM IN SKULL SHAPE USING DISTINCT DEVELOPMENTAL STRATEGIES. Evolution; International Journal of Organic Evolution, 2013, 67, 2180-2193.	1.1	79
62	SHARED AND UNIQUE FEATURES OF DIVERSIFICATION IN GREATER ANTILLEAN ANOLIS ECOMORPHS. Evolution; International Journal of Organic Evolution, 2006, 60, 362-369.	1.1	78
63	BEHAVIORAL CONVERGENCE AND ADAPTIVE RADIATION: EFFECTS OF HABITAT USE ON TERRITORIAL BEHAVIOR IN ANOLIS LIZARDS. Evolution; International Journal of Organic Evolution, 2010, 64, 1151-1159.	1.1	76
64	Natural Restoration of the Species-Area Relation for a Lizard After a Hurricane. Science, 2001, 294, 1525-1528.	6.0	75
65	Amber fossils demonstrate deep-time stability of Caribbean lizard communities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9961-9966.	3.3	75
66	Adaptive radiation along a deeply conserved genetic line of least resistance inAnolislizards. Evolution Letters, 2018, 2, 310-322.	1.6	75
67	Patterns of morphological variation and correlates of habitat use in Chameleons. Biological Journal of the Linnean Society, 0, 76, 91-103.	0.7	69
68	Experimental studies of adaptive differentiation in Bahamian Anolis lizards. Genetica, 2001, 112/113, 399-415.	0.5	67
69	PREDATION ON A COMMON ANOLIS LIZARD: CAN THE FOOD-WEB EFFECTS OF A DEVASTATING PREDATOR BE REVERSED?. Ecological Monographs, 2002, 72, 383-407.	2.4	67
70	Who Speaks with a Forked Tongue?. Science, 2012, 338, 1428-1429.	6.0	65
71	CONVERGENT EVOLUTION OF PHENOTYPIC INTEGRATION AND ITS ALIGNMENT WITH MORPHOLOGICAL DIVERSIFICATION IN CARIBBEAN ANOLIS ECOMORPHS. Evolution; International Journal of Organic Evolution, 2011, 65, 3608-3624.	1.1	64
72	Repeated modification of early limb morphogenesis programmes underlies the convergence of relative limb length inAnolislizards. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 739-748.	1.2	59

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73	Determinants of spread in an urban landscape by an introduced lizard. Landscape Ecology, 2016, 31, 1795-1813.	1.9	59
74	Stick or grip? Co-evolution of adhesive toepads and claws in Anolis lizards. Zoology, 2014, 117, 363-369.	0.6	55
75	DIFFERENTIAL COLONIZATION SUCCESS AND ASYMMETRICAL INTERACTIONS BETWEEN TWO LIZARD SPECIES. Ecology, 1999, 80, 252-258.	1.5	51
76	Climatic niche shift predicts thermal trait response in one but not both introductions of the Puerto Rican lizard Anolis cristatellus to Miami, Florida, USA. Ecology and Evolution, 2012, 2, 1503-1516.	0.8	50
77	MORPHOLOGICAL DIVERSIFICATION AND ADAPTIVE RADIATION: A COMPARISON OF TWO DIVERSE LIZARD CLADES. Evolution; International Journal of Organic Evolution, 1999, 53, 1226-1234.	1.1	49
78	Physiological and regulatory underpinnings of geographic variation in reptilian cold tolerance across a latitudinal cline. Molecular Ecology, 2018, 27, 2243-2255.	2.0	46
79	Predation-associated modulation of movement-based signals by a Bahamian lizard. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9187-9192.	3.3	43
80	Hurricane effects on Neotropical lizards span geographic and phylogenetic scales. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10429-10434.	3.3	43
81	TESTING FOR UNEQUAL AMOUNTS OF EVOLUTION IN A CONTINUOUS CHARACTER ON DIFFERENT BRANCHES OF A PHYLOGENETIC TREE USING LINEAR AND SQUAREDâ€CHANGE PARSIMONY: AN EXAMPLE USING LESSER ANTILLEAN ANOLIS LIZARDS. Evolution; International Journal of Organic Evolution, 1997, 51, 1623-1635.	1.1	39
82	Niche incumbency, dispersal limitation and climate shape geographical distributions in a speciesâ€rich island adaptive radiation. Global Ecology and Biogeography, 2013, 22, 391-402.	2.7	39
83	The Evolution of â€˜Ecological Releaseâ€™ into the 21st Century. Trends in Ecology and Evolution, 2021, 36, 206-215.	4.2	39
84	An experimental study of interspecific interactions between two Puerto Rican Anolis lizards. Oecologia, 1998, 117, 273-278.	0.9	36
85	Shake Rattle and Roll: The Bony Labyrinth and Aerial Descent in Squamates. Integrative and Comparative Biology, 2011, 51, 957-968.	0.9	36
86	Lizard scales in an adaptive radiation: variation in scale number follows climatic and structural habitat diversity inAnolislizards. Biological Journal of the Linnean Society, 2014, 113, 570-579.	0.7	36
87	Effect of immersion in seawater on egg survival in the lizard Anolis sagrei. Oecologia, 2003, 137, 360-362.	0.9	32
88	Estimating encounter rates as the first step of sexual selection in the lizardAnolis sagrei. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172244.	1.2	28
89	The Anoles of Soroa: Aspects of Their Ecological Relationships. Breviora, 2010, 520, 1.	0.2	27
90	The erratic and contingent progression of research on territoriality: a case study. Behavioral Ecology and Sociobiology, 2017, 71, 1.	0.6	27

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91	A comparative analysis of clinging ability among pad-bearing lizards. Biological Journal of the Linnean Society, 1996, 59, 21-35.	0.7	26
92	Predators determine how weather affects the spatial niche of lizard prey: exploring niche dynamics at a fine scale. Ecology, 2012, 93, 2512-2518.	1.5	24
93	island biogeography of Day Geckos (Phelsuma) in the Indian Ocean. Oecologia, 1986, 68, 338-343.	0.9	23
94	Evolutionary assembly of island faunas reverses the classic island-mainland richness difference in Anolis lizards. Journal of Biogeography, 2011, 38, 1125-1137.	1.4	23
95	Does ecological specialization transcend scale? Habitat partitioning among individuals and species ofAnolislizards. Evolution; International Journal of Organic Evolution, 2017, 71, 541-549.	1.1	23
96	Proximate determinants of bite force in Anolis lizards. Journal of Anatomy, 2016, 228, 85-95.	0.9	22
97	Semicircular canals inAnolislizards: ecomorphological convergence and ecomorph affinities of fossil species. Royal Society Open Science, 2017, 4, 170058.	1.1	22
98	Bridging the Process-Pattern Divide to Understand the Origins and Early Stages of Adaptive Radiation: A Review of Approaches With Insights From Studies of Anolis Lizards. Journal of Heredity, 2020, 111, 33-42.	1.0	22
99	THE RELATIONSHIP BETWEEN SEXUAL SIZE DIMORPHISM AND HABITAT USE IN GREATER ANTILLEAN ANOLIS LIZARDS. Evolution; International Journal of Organic Evolution, 2000, 54, 259.	1.1	21
100	Geographical variation in morphology and its environmental correlates in a widespread North American lizard,Anolis carolinensis(Squamata: Dactyloidae). Biological Journal of the Linnean Society, 2016, 117, 760-774.	0.7	21
101	Comparative tests of the role of dewlap size in Anolis lizard speciation. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20162199.	1.2	20
102	Phylogeographic and phenotypic outcomes of brown anole colonization across the Caribbean provide insight into the beginning stages of an adaptive radiation. Journal of Evolutionary Biology, 2020, 33, 468-494.	0.8	20
103	Phenotypic Convergence Is Not Mirrored at the Protein Level in a Lizard Adaptive Radiation. Molecular Biology and Evolution, 2020, 37, 1604-1614.	3.5	19
104	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
105	Archipelagic genetics in a widespread Caribbean anole. Journal of Biogeography, 2017, 44, 2631-2647.	1.4	17
106	Changes in selection pressure can facilitate hybridization during biological invasion in a Cuban lizard. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
107	Postures of the Military Dragon (Ctenophorus isolepis) in Relation to Substrate Temperature. Amphibia - Reptilia, 1987, 8, 419-423.	0.1	16
108	Anolis lizards. Current Biology, 2009, 19, R316-R318.	1.8	16

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109	Implications of Food Web Interactions for Restoration of Missouri Ozark Glade Habitats. Restoration Ecology, 2005, 13, 312-317.	1.4	15
110	HUTCHINSONIAN RATIOS AND STATISTICAL POWER. Evolution; International Journal of Organic Evolution, 1989, 43, 1820-1826.	1.1	13
111	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
112	Multiple paths to aquatic specialisation in four species of Central AmericanAnolislizards. Journal of Natural History, 2015, 49, 1717-1730.	0.2	12
113	An extreme cold event leads to community-wide convergence in lower temperature tolerance in a lizard community. Biology Letters, 2020, 16, 20200625.	1.0	12
114	Notes on the Natural History of the Little-Known Ecuadorian Horned Anole, Anolis proboscis. Breviora, 2012, 531, 1.	0.2	11
115	The role of bite force in the evolution of head shape and head shape dimorphism in Anolis lizards. Functional Ecology, 2019, 33, 2191-2202.	1.7	11
116	Do the relationships between hind limb anatomy and sprint speed variation differ between sexes inAnolislizards?. Journal of Experimental Biology, 2019, 222, .	0.8	11
117	Sex-specific microhabitat use is associated with sex-biased thermal physiology in Anolis lizards. Journal of Experimental Biology, 2021, 224, .	0.8	11
118	MULTIVARIATE SEXUAL DIMORPHISM, SEXUAL SELECTION, AND ADAPTATION IN GREATER ANTILLEAN ANOLIS LIZARDS. , 2002, 72, 541.		11
119	Competition, predation and natural selection in island lizards. Nature, 2011, 475, E1-E2.	13.7	10
120	The effect of recent competition between the nativeAnolis oculatusand the invasiveA. cristatelluson display behavior. PeerJ, 2018, 6, e4888.	0.9	10
121	Ontogenetic scaling patterns of lizard skin surface structure as revealed by gelâ€based stereoâ€profilometry. Journal of Anatomy, 2019, 235, 346-356.	0.9	10
122	An incipient invasion of brown anole lizards (Anolis sagrei) into their own native range in the Cayman Islands: a case of cryptic back-introduction. Biological Invasions, 2017, 19, 1989-1998.	1.2	9
123	HEAD SIZE OF MALE AND FEMALE LIZARDS INCREASES WITH POPULATION DENSITY ACROSS ISLAND POPULATIONS IN THE BAHAMAS. Breviora, 2019, 566, 1.	0.2	9
124	Reconsidering territoriality is necessary for understanding Anolis mating systems. Behavioral Ecology and Sociobiology, 2018, 72, 1.	0.6	6
125	Predation on a Common Anolis Lizard: Can the Food-Web Effects of a Devastating Predator Be Reversed?. Ecological Monographs, 2002, 72, 383.	2.4	6
126	Fixation and preservation contribute to distortion in vertebrate museum specimens: a 10-year study with the lizard Anolis sagrei. Biological Journal of the Linnean Society, 2022, 136, 443-454.	0.7	6

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127	Recent biological invasion shapes species recognition and aggressive behaviour in a native species: A behavioural experiment using robots in the field. Journal of Animal Ecology, 2020, 89, 1604-1614.	1.3	5
128	What Determines Paternity in Wild Lizards? A Spatiotemporal Analysis of Behavior and Morphology. Integrative and Comparative Biology, 2021, 61, 634-642.	0.9	5
129	Do differences in bite force and head morphology between a native and an introduced species of anole influence the outcome of species interactions?. Biological Journal of the Linnean Society, 0, , .	0.7	4
130	Patterns of morphological variation and correlates of habitat use in Chameleons. Biological Journal of the Linnean Society, 2002, 76, 91-103.	0.7	4
131	Dewlap colour variation in Anolis sagrei is maintained among habitats within islands of the West Indies. Journal of Evolutionary Biology, 2022, 35, 680-692.	0.8	2
132	The evolution of species recognition signals. Molecular Ecology, 2013, 22, 3879-3881.	2.0	1
133	Evolution of dorsal pattern variation in Greater AntilleanAnolislizards. Biological Journal of the Linnean Society, 2016, , .	0.7	1
134	THE ANOLES OF LA SELVA: NICHE PARTITIONING AND ECOLOGICAL MORPHOLOGY IN A MAINLAND COMMUNITY OF ANOLIS LIZARDS. Breviora, 2021, 570, .	0.2	1