

# Michael E Alfaro

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119 papers	8,734 citations	47 h-index	93 g-index
125 ext. papers	10,563 ext. citations	6 avg, IF	6.23 L-index

#	Paper	IF	Citations
119	Bayes or bootstrap? A simulation study comparing the performance of Bayesian Markov chain Monte Carlo sampling and bootstrapping in assessing phylogenetic confidence. <i>Molecular Biology and Evolution</i> , <b>2003</b> , 20, 255-66	8.3	775
118	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> , <b>2009</b> , 106, 13410-4	11.5	643
117	Rates of speciation and morphological evolution are correlated across the largest vertebrate radiation. <i>Nature Communications</i> , <b>2013</b> , 4, 1958	17.4	409
116	Bayesian phylogenetic model selection using reversible jump Markov chain Monte Carlo. <i>Molecular Biology and Evolution</i> , <b>2004</b> , 21, 1123-33	8.3	373
115	geiger v2.0: an expanded suite of methods for fitting macroevolutionary models to phylogenetic trees. <i>Bioinformatics</i> , <b>2014</b> , 30, 2216-8	7.2	363
114	An inverse latitudinal gradient in speciation rate for marine fishes. <i>Nature</i> , <b>2018</b> , 559, 392-395	50.4	314
113	Many-to-One Mapping of Form to Function: A General Principle in Organismal Design?. <i>Integrative and Comparative Biology</i> , <b>2005</b> , 45, 256-62	2.8	307
112	Did genome duplication drive the origin of teleosts? A comparative study of diversification in ray-finned fishes. <i>BMC Evolutionary Biology</i> , <b>2009</b> , 9, 194	3	219
111	Phylogenetic relationships and evolutionary history of the reef fish family Labridae. <i>Molecular Phylogenetics and Evolution</i> , <b>2005</b> , 36, 370-90	4.1	215
110	Diversity versus disparity and the radiation of modern cetaceans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 277, 3097-104	4.4	207
109	Integrating fossils with molecular phylogenies improves inference of trait evolution. <i>Evolution; International Journal of Organic Evolution</i> , <b>2012</b> , 66, 3931-44	3.8	204
108	A Phylogenomic Perspective on the Radiation of Ray-Finned Fishes Based upon Targeted Sequencing of Ultraconserved Elements (UCEs). <i>PLoS ONE</i> , <b>2013</b> , 8, e65923	3.7	195
107	A novel comparative method for identifying shifts in the rate of character evolution on trees. <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 3578-89	3.8	185
106	Explosive Pleistocene range expansion leads to widespread Amazonian sympatry between robust and gracile capuchin monkeys. <i>Journal of Biogeography</i> , <b>2012</b> , 39, 272-288	4.1	175
105	Evolutionary consequences of many-to-one mapping of jaw morphology to mechanics in labrid fishes. <i>American Naturalist</i> , <b>2005</b> , 165, E140-54	3.7	171
104	Clade age and species richness are decoupled across the eukaryotic tree of life. <i>PLoS Biology</i> , <b>2012</b> , 10, e1001381	9.7	148
103	Do reefs drive diversification in marine teleosts? Evidence from the pufferfishes and their allies (Order Tetraodontiformes). <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 61, 2104-26	3.8	141

102	EVOLUTIONARY DYNAMICS OF COMPLEX BIOMECHANICAL SYSTEMS: AN EXAMPLE USING THE FOUR-BAR MECHANISM. <i>Evolution; International Journal of Organic Evolution</i> , <b>2004</b> , 58, 495-503	3.8	136
101	Spatial and temporal patterns of diversification on the Amazon: A test of the riverine hypothesis for all diurnal primates of Rio Negro and Rio Branco in Brazil. <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 82 Pt B, 400-12	4.1	123
100	Iterative ecological radiation and convergence during the evolutionary history of damselfishes (Pomacentridae). <i>American Naturalist</i> , <b>2013</b> , 181, 94-113	3.7	123
99	Contemporaneous radiations of fungi and plants linked to symbiosis. <i>Nature Communications</i> , <b>2018</b> , 9, 5451	17.4	120
98	The Posterior and the Prior in Bayesian Phylogenetics. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2006</b> , 37, 19-42	13.5	117
97	Diversification in vipers: Phylogenetic relationships, time of divergence and shifts in speciation rates. <i>Molecular Phylogenetics and Evolution</i> , <b>2016</b> , 105, 50-62	4.1	111
96	Biogeography of squirrel monkeys (genus <i>Saimiri</i> ): South-central Amazon origin and rapid pan-Amazonian diversification of a lowland primate. <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 82 Pt B, 436-54	4.1	102
95	Phylogenetic relationships in the family Alloherpesviridae. <i>Diseases of Aquatic Organisms</i> , <b>2009</b> , 84, 179-247	4.7	97
94	Local phylogenetic divergence and global evolutionary convergence of skull function in reef fishes of the family Labridae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 993-1000	4.4	96
93	Explosive diversification of marine fishes at the Cretaceous-Palaeogene boundary. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 688-696	12.3	89
92	A comparative study in ancestral range reconstruction methods: retracing the uncertain histories of insular lineages. <i>Systematic Biology</i> , <b>2008</b> , 57, 693-707	8.4	88
91	Does evolutionary innovation in pharyngeal jaws lead to rapid lineage diversification in labrid fishes?. <i>BMC Evolutionary Biology</i> , <b>2009</b> , 9, 255	3	84
90	The evolution of island gigantism and body size variation in tortoises and turtles. <i>Biology Letters</i> , <b>2011</b> , 7, 558-61	3.6	82
89	Molecular systematics and evolution of Regina and the thamnophiine snakes. <i>Molecular Phylogenetics and Evolution</i> , <b>2001</b> , 21, 408-23	4.1	75
88	Adaptive evolution of facial colour patterns in Neotropical primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 2204-11	4.4	69
87	Do habitat shifts drive diversification in teleost fishes? An example from the pufferfishes (Tetraodontidae). <i>Journal of Evolutionary Biology</i> , <b>2013</b> , 26, 1003-18	2.3	67
86	Biogeography of the marmosets and tamarins (Callitrichidae). <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 82 Pt B, 413-25	4.1	62
85	Phylogenomic analysis of carangimorph fishes reveals flatfish asymmetry arose in a blink of the evolutionary eye. <i>BMC Evolutionary Biology</i> , <b>2016</b> , 16, 224	3	61

84	Dietary breadth is positively correlated with venom complexity in cone snails. <i>BMC Genomics</i> , <b>2016</b> , 17, 401	4.5	60
83	Testing for temporal variation in diversification rates when sampling is incomplete and nonrandom. <i>Systematic Biology</i> , <b>2011</b> , 60, 410-9	8.4	59
82	The effect of habitat on modern shark diversification. <i>Journal of Evolutionary Biology</i> , <b>2014</b> , 27, 1536-48	2.3	57
81	Fitting models of continuous trait evolution to incompletely sampled comparative data using approximate Bayesian computation. <i>Evolution; International Journal of Organic Evolution</i> , <b>2012</b> , 66, 752-762	2.8	57
80	Comparative performance of Bayesian and AIC-based measures of phylogenetic model uncertainty. <i>Systematic Biology</i> , <b>2006</b> , 55, 89-96	8.4	57
79	The influence of an innovative locomotor strategy on the phenotypic diversification of triggerfish (family: Balistidae). <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 1912-26	3.8	52
78	Phylogenomic Systematics of Ostariophysan Fishes: Ultraconserved Elements Support the Surprising Non-Monophyly of Characiformes. <i>Systematic Biology</i> , <b>2017</b> , 66, 881-895	8.4	51
77	A multi-locus timetree of surgeonfishes (Acanthuridae, Percomorpha), with revised family taxonomy. <i>Molecular Phylogenetics and Evolution</i> , <b>2013</b> , 68, 150-60	4.1	50
76	Genome-wide ultraconserved elements exhibit higher phylogenetic informativeness than traditional gene markers in percomorph fishes. <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 92, 140-6	4.1	50
75	Phylogenetic concordance analysis shows an emerging pathogen is novel and endemic. <i>Ecology Letters</i> , <b>2007</b> , 10, 1075-83	10	49
74	Cebus phylogenetic relationships: a preliminary reassessment of the diversity of the untufted capuchin monkeys. <i>American Journal of Primatology</i> , <b>2012</b> , 74, 381-93	2.5	48
73	Elongation of the body in eels. <i>Integrative and Comparative Biology</i> , <b>2010</b> , 50, 1091-105	2.8	48
72	Biting disrupts integration to spur skull evolution in eels. <i>Nature Communications</i> , <b>2014</b> , 5, 5505	17.4	46
71	Phylogeny, evolutionary history, and biogeography of Oriental-Australian rear-fanged water snakes (Colubroidea: Homalopsidae) inferred from mitochondrial and nuclear DNA sequences. <i>Molecular Phylogenetics and Evolution</i> , <b>2008</b> , 46, 576-93	4.1	46
70	An r package and online resource for macroevolutionary studies using the ray-finned fish tree of life. <i>Methods in Ecology and Evolution</i> , <b>2019</b> , 10, 1118-1124	7.7	45
69	Integrated diversification of locomotion and feeding in labrid fishes. <i>Biology Letters</i> , <b>2008</b> , 4, 84-6	3.6	45
68	Phylogenomic reappraisal of the Neotropical catfish family Loricariidae (Teleostei: Siluriformes) using ultraconserved elements. <i>Molecular Phylogenetics and Evolution</i> , <b>2019</b> , 135, 148-165	4.1	44
67	Imperfect morphological convergence: variable changes in cranial structures underlie transitions to durophagy in moray eels. <i>American Naturalist</i> , <b>2014</b> , 183, E168-84	3.7	44

66	Relationships of the temperate Australasian labrid fish tribe Odacini (Perciformes; Teleostei). <i>Molecular Phylogenetics and Evolution</i> , <b>2004</b> , 32, 575-87	4.1	42
65	Replicated divergence in cichlid radiations mirrors a major vertebrate innovation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	40
64	Motor Control Across Trophic Strategies: Muscle Activity of Biting and Suction Feeding Fishes. <i>American Zoologist</i> , <b>2001</b> , 41, 1266-1279		39
63	Evolutionary dynamics of complex biomechanical systems: an example using the four-bar mechanism. <i>Evolution; International Journal of Organic Evolution</i> , <b>2004</b> , 58, 495-503	3.8	36
62	Phylogenetic relationships and the evolution of regulatory gene sequences in the parrotfishes. <i>Molecular Phylogenetics and Evolution</i> , <b>2008</b> , 49, 136-52	4.1	35
61	A new multi-locus timescale reveals the evolutionary basis of diversity patterns in triggerfishes and filefishes (Balistidae, Monacanthidae; Tetraodontiformes). <i>Molecular Phylogenetics and Evolution</i> , <b>2013</b> , 69, 165-76	4.1	33
60	The influence of model averaging on clade posteriors: an example using the triggerfishes (Family Balistidae). <i>Systematic Biology</i> , <b>2008</b> , 57, 905-19	8.4	33
59	A multi-locus molecular timescale for the origin and diversification of eels (Order: Anguilliformes). <i>Molecular Phylogenetics and Evolution</i> , <b>2013</b> , 69, 884-94	4.1	32
58	Adaptive response to sociality and ecology drives the diversification of facial colour patterns in catarrhines. <i>Nature Communications</i> , <b>2013</b> , 4, 2765	17.4	32
57	Anointing variation across wild capuchin populations: a review of material preferences, bout frequency and anointing sociality in Cebus and Sapajus. <i>American Journal of Primatology</i> , <b>2012</b> , 74, 299-314	3.5	32
56	Trait decoupling promotes evolutionary diversification of the trophic and acoustic system of damselfishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20141047	4.4	31
55	Multilocus analysis of the catfish family Trichomycteridae (Teleostei: Ostariophysi: Siluriformes) supporting a monophyletic Trichomycterinae. <i>Molecular Phylogenetics and Evolution</i> , <b>2017</b> , 115, 71-81	4.1	31
54	Body fineness ratio as a predictor of maximum prolonged-swimming speed in coral reef fishes. <i>PLoS ONE</i> , <b>2013</b> , 8, e75422	3.7	30
53	Phylogeny of Cerberus (Serpentes: Homalopsinae) and phylogeography of Cerberus rynchops: diversification of a coastal marine snake in Southeast Asia. <i>Journal of Biogeography</i> , <b>2004</b> , 31, 1277-1292	4.1	30
52	Phylogenomic analysis of a rapid radiation of misfit fishes (Syngnathiformes) using ultraconserved elements. <i>Molecular Phylogenetics and Evolution</i> , <b>2017</b> , 113, 33-48	4.1	29
51	A multilocus molecular phylogeny of boxfishes (Acanidae, Ostraciidae; Tetraodontiformes). <i>Molecular Phylogenetics and Evolution</i> , <b>2013</b> , 66, 153-60	4.1	29
50	A new phylogeny of tetraodontiform fishes (Tetraodontiformes, Acanthomorpha) based on 22 loci. <i>Molecular Phylogenetics and Evolution</i> , <b>2013</b> , 69, 177-87	4.1	28
49	Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient. <i>BMC Bioinformatics</i> , <b>2013</b> , 14, 158	3.6	28

48	Systemic iridovirus from threespine stickleback <i>Gasterosteus aculeatus</i> represents a new megalocytivirus species (Family Iridoviridae). <i>Diseases of Aquatic Organisms</i> , <b>2012</b> , 98, 41-56	1.7	27
47	Resolving Deep Nodes in an Ancient Radiation of Neotropical Fishes in the Presence of Conflicting Signals from Incomplete Lineage Sorting. <i>Systematic Biology</i> , <b>2019</b> , 68, 573-593	8.4	27
46	Sweeping and striking: a kinematic study of the trunk during prey capture in three thamnophiine snakes. <i>Journal of Experimental Biology</i> , <b>2003</b> , 206, 2381-92	3	25
45	Capuchin monkey biogeography: understanding <i>Sapajus</i> Pleistocene range expansion and the current sympatry between <i>Cebus</i> and <i>Sapajus</i> . <i>Journal of Biogeography</i> , <b>2017</b> , 44, 810-820	4.1	23
44	Biologically inspired phylogenetic models strongly outperform the no common mechanism model. <i>Systematic Biology</i> , <b>2011</b> , 60, 225-32	8.4	22
43	How Well Can We Estimate Diversity Dynamics for Clades in Diversity Decline?. <i>Systematic Biology</i> , <b>2019</b> , 68, 47-62	8.4	21
42	Roosting ecology and the evolution of pelage markings in bats. <i>PLoS ONE</i> , <b>2011</b> , 6, e25845	3.7	21
41	Estimating Diversification Rates on Incompletely Sampled Phylogenies: Theoretical Concerns and Practical Solutions. <i>Systematic Biology</i> , <b>2020</b> , 69, 602-611	8.4	21
40	The evolution of capture myopathy in hooved mammals: a model for human stress cardiomyopathy?. <i>Evolution, Medicine and Public Health</i> , <b>2015</b> , 2015, 195-203	3	20
39	Phylogenomic analysis of trichomycterid catfishes (Teleostei: Siluriformes) inferred from ultraconserved elements. <i>Scientific Reports</i> , <b>2020</b> , 10, 2697	4.9	19
38	Crowdsourced geometric morphometrics enable rapid large-scale collection and analysis of phenotypic data. <i>Methods in Ecology and Evolution</i> , <b>2016</b> , 7, 472-482	7.7	19
37	Phylogenetic Relationships of the Oriental-Australian Rear-Fanged Water Snakes (Colubridae: Homalopsinae) Based on Mitochondrial DNA Sequences. <i>Copeia</i> , <b>2002</b> , 2002, 906-915	1.1	19
36	The effects of ecology and evolutionary history on robust capuchin morphological diversity. <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 82 Pt B, 455-66	4.1	16
35	A phylogenomic perspective on the robust capuchin monkey ( <i>Sapajus</i> ) radiation: First evidence for extensive population admixture across South America. <i>Molecular Phylogenetics and Evolution</i> , <b>2018</b> , 124, 137-150	4.1	14
34	A phylogenomic framework for pelagiarian fishes (Acanthomorpha: Percomorpha) highlights mosaic radiation in the open ocean. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191502	4.4	13
33	Filtering nucleotide sites by phylogenetic signal to noise ratio increases confidence in the Neoaves phylogeny generated from ultraconserved elements. <i>Molecular Phylogenetics and Evolution</i> , <b>2018</b> , 126, 116-128	4.1	12
32	A Target Enrichment Bait Set for Studying Relationships among Ostariophysan Fishes. <i>Copeia</i> , <b>2020</b> , 108, 47	1.1	12
31	Supermatrix phylogeny resolves goby lineages and reveals unstable root of Gobiaria. <i>Molecular Phylogenetics and Evolution</i> , <b>2020</b> , 151, 106862	4.1	11

30	Phylogenetics and geography of speciation in New World Halichoeres wrasses. <i>Molecular Phylogenetics and Evolution</i> , <b>2018</b> , 121, 35-45	4.1	11
29	Accelerated Diversification Explains the Exceptional Species Richness of Tropical Characoid Fishes. <i>Systematic Biology</i> , <b>2021</b> ,	8.4	11
28	Phylogenomic analysis of Lake Malawi cichlid fishes: Further evidence that the three-stage model of diversification does not fit. <i>Molecular Phylogenetics and Evolution</i> , <b>2017</b> , 114, 40-48	4.1	9
27	Body shape convergence driven by small size optimum in marine angelfishes. <i>Biology Letters</i> , <b>2017</b> , 13,	3.6	8
26	Lack of Signal for the Impact of Conotoxin Gene Diversity on Speciation Rates in Cone Snails. <i>Systematic Biology</i> , <b>2019</b> , 68, 781-796	8.4	8
25	Evolutionary bangs and whimpers: methodological advances and conceptual frameworks for studying exceptional diversification. <i>Systematic Biology</i> , <b>2010</b> , 59, 615-8	8.4	8
24	Phylogenetic Factor Analysis. <i>Systematic Biology</i> , <b>2018</b> , 67, 384-399	8.4	8
23	Phylogenomics of a putatively convergent novelty: did hypertrophied lips evolve once or repeatedly in Lake Malawi cichlid fishes?. <i>BMC Evolutionary Biology</i> , <b>2018</b> , 18, 179	3	8
22	Pleiotropic jaw morphology links the evolution of mechanical modularity and functional feeding convergence in Lake Malawi cichlids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20182358	4.4	7
21	Phylogeny and biogeography of hogfishes and allies (Bodianus, Labridae). <i>Molecular Phylogenetics and Evolution</i> , <b>2016</b> , 99, 1-6	4.1	7
20	Early-branching euteleost relationships: areas of congruence between concatenation and coalescent model inferences. <i>PeerJ</i> , <b>2017</b> , 5, e3548	3.1	6
19	The Evolution of Color Pattern in Butterflyfishes (Chaetodontidae). <i>Integrative and Comparative Biology</i> , <b>2019</b> , 59, 604-615	2.8	5
18	Using ultraconserved elements to track the influence of sea-level change on leafy seadragon populations. <i>Molecular Ecology</i> , <b>2021</b> , 30, 1364-1380	5.7	5
17	Ice ages and butterflyfishes: Phylogenomics elucidates the ecological and evolutionary history of reef fishes in an endemism hotspot. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 10989-11008	2.8	5
16	Resolving the ray-finned fish tree of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6107-6109	11.5	5
15	Sashimi: A toolkit for facilitating high-throughput organismal image segmentation using deep learning. <i>Methods in Ecology and Evolution</i> ,	7.7	5
14	Life in the unthinking depths: energetic constraints on encephalization in marine fishes. <i>Journal of Evolutionary Biology</i> , <b>2015</b> , 28, 1080-90	2.3	4
13	Addressing incomplete lineage sorting and paralogy in the inference of uncertain salmonid phylogenetic relationships. <i>PeerJ</i> , <b>2020</b> , 8, e9389	3.1	4



12	A quantitative workflow for modeling diversification in material culture. <i>PLoS ONE</i> , <b>2020</b> , 15, e0227579	3.7	3
11	Evolution: Bioluminescent Courtship as an Engine of Diversity. <i>Current Biology</i> , <b>2016</b> , 26, R667-9	6.3	3
10	Rediscovery of <i>Sagittalarva inornata</i> n. gen., n. comb. (Gilbert, 1890) (Perciformes: Labridae), a long-lost deepwater fish from the eastern Pacific Ocean: a case study of a forensic approach to taxonomy using DNA barcoding. <i>Zootaxa</i> , <b>2013</b> , 3669, 551-70	0.5	3
9	A target enrichment bait set for studying relationships among ostariophysan fishes		3
8	SARS-CoV-2: Cross-scale Insights from Ecology and Evolution. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 593-605	12.4	3
7	The nature of privilege: intergenerational wealth in animal societies. <i>Behavioral Ecology</i> , <b>2022</b> , 33, 1-6	2.3	1
6	Keels of boxfish carapaces strongly improve stabilization against roll.. <i>Journal of the Royal Society Interface</i> , <b>2022</b> , 19, 20210942	4.1	0
5	A clinical research pathway towards developing new insights into cardiomyopathy. <i>Evolution, Medicine and Public Health</i> , <b>2015</b> , 2015, 280	3	
4	A quantitative workflow for modeling diversification in material culture <b>2020</b> , 15, e0227579		
3	A quantitative workflow for modeling diversification in material culture <b>2020</b> , 15, e0227579		
2	A quantitative workflow for modeling diversification in material culture <b>2020</b> , 15, e0227579		
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