

Tiago P Carvalho

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

4,786
citations

147566

31
h-index

110170

64
g-index

105
all docs

105
docs citations

105
times ranked

5931
citing authors

#	ARTICLE	IF	CITATIONS
1	Delimiting Species without Monophyletic Gene Trees. <i>Systematic Biology</i> , 2007, 56, 887-895.	2.7	657
2	Multispecies coalescent delimits structure, not species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1607-1612.	3.3	640
3	Unforeseen Consequences of Excluding Missing Data from Next-Generation Sequences: Simulation Study of RAD Sequences. <i>Systematic Biology</i> , 2016, 65, 357-365.	2.7	267
4	Distribution modelling and statistical phylogeography: an integrative framework for generating and testing alternative biogeographical hypotheses. <i>Journal of Biogeography</i> , 2007, 34, 1833-1845.	1.4	245
5	Toward a paradigm shift in comparative phylogeography driven by trait-based hypotheses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8018-8024.	3.3	170
6	Estimating Species Trees: Methods of Phylogenetic Analysis When There Is Incongruence across Genes. <i>Systematic Biology</i> , 2009, 58, 463-467.	2.7	151
7	Coupling Genetic and Ecological-Niche Models to Examine How Past Population Distributions Contribute to Divergence. <i>Current Biology</i> , 2007, 17, 940-946.	1.8	148
8	Embracing heterogeneity: coalescing the Tree of Life and the future of phylogenomics. <i>PeerJ</i> , 2019, 7, e6399.	0.9	111
9	Importance of genetic drift during Pleistocene divergence as revealed by analyses of genomic variation. <i>Molecular Ecology</i> , 2005, 14, 4023-4032.	2.0	103
10	Exploring the population genetic consequences of the colonization process with spatio-temporally explicit models: insights from coupled ecological, demographic and genetic models in montane grasshoppers. <i>Molecular Ecology</i> , 2010, 19, 3727-3745.	2.0	100
11	ESTIMATING A GEOGRAPHICALLY EXPLICIT MODEL OF POPULATION DIVERGENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 477-493.	1.1	92
12	Testing the effect of palaeodrainages versus habitat stability on genetic divergence in riverine systems: study of a Neotropical fish of the Brazilian coastal Atlantic Forest. <i>Journal of Biogeography</i> , 2015, 42, 2389-2401.	1.4	90
13	Genomic tests of the species-pump hypothesis: Recent island connectivity cycles drive population divergence but not speciation in Caribbean crickets across the Virgin Islands. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1501-1517.	1.1	88
14	The architecture of river networks can drive the evolutionary dynamics of aquatic populations. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 731-739.	1.1	77
15	WHY DOES A METHOD THAT FAILS CONTINUE TO BE USED?. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2713-2717.	1.1	70
16	The Species versus Subspecies Conundrum: Quantitative Delimitation from Integrating Multiple Data Types within a Single Bayesian Approach in Hercules Beetles. <i>Systematic Biology</i> , 2016, 65, 685-699.	2.7	68
17	Species-specific responses to island connectivity cycles: refined models for testing phylogeographic concordance across a Mediterranean Pleistocene Atlantic island complex. <i>Molecular Ecology</i> , 2015, 24, 4252-4268.	2.0	67
18	Habitat corridors facilitate genetic resilience irrespective of species dispersal abilities or population sizes. <i>Evolutionary Applications</i> , 2015, 8, 454-463.	1.5	62

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19	Global phylogenetic structure of the hyperdiverse ant genus <i>Pheidole</i> reveals the repeated evolution of macroecological patterns. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141416.	1.2	55
20	Incorporating the speciation process into species delimitation. <i>PLoS Computational Biology</i> , 2021, 17, e1008924.	1.5	53
21	Four new species of <i>Hisonotus</i> (Siluriformes: Loricariidae) from the upper rio Uruguay, southeastern South America, with a review of the genus in the rio Uruguay basin. <i>Zootaxa</i> , 2009, 2113, 1-40.	0.2	47
22	Genomic evidence of survival near ice sheet margins for some, but not all, North American trees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8431-8436.	3.3	46
23	A matter of phylogenetic scale: Distinguishing incomplete lineage sorting from lateral gene transfer as the cause of gene tree discord in recent versus deep diversification histories. <i>American Journal of Botany</i> , 2018, 105, 376-384.	0.8	45
24	Tests of species-specific models reveal the importance of drought in postglacial range shifts of a Mediterranean climate tree: insights from integrative distributional, demographic and coalescent modelling and ABC model selection. <i>Molecular Ecology</i> , 2016, 25, 4889-4906.	2.0	43
25	Applying species-tree analyses to deep phylogenetic histories: Challenges and potential suggested from a survey of empirical phylogenetic studies. <i>Molecular Phylogenetics and Evolution</i> , 2015, 83, 191-199.	1.2	41
26	Neogene Assembly of Modern Faunas. , 2011, , 118-136.		40
27	A new genus and species of characid fish from the Amazon basin: the recognition of a relictual lineage of characid fishes (Ostariophysi: Cheirodontinae: Cheirodontini). <i>Neotropical Ichthyology</i> , 2008, 6, 663-678.	0.5	39
28	Full modeling versus summarizing gene-tree uncertainty: Method choice and species-tree accuracy. <i>Molecular Phylogenetics and Evolution</i> , 2012, 65, 501-509.	1.2	39
29	Trait-Dependent Biogeography: (Re)Integrating Biology into Probabilistic Historical Biogeographical Models. <i>Trends in Ecology and Evolution</i> , 2018, 33, 390-398.	4.2	39
30	Aquatic Biodiversity in the Amazon: Habitat Specialization and Geographic Isolation Promote Species Richness. <i>Animals</i> , 2011, 1, 205-241.	1.0	38
31	Flowing into the unknown: inferred paleodrainages for studying the ichthyofauna of Brazilian coastal rivers. <i>Neotropical Ichthyology</i> , 2018, 16, .	0.5	36
32	Two new species of <i>Hyphessobrycon</i> (Teleostei: Characidae) from upper rio Tapaj�s basin on Chapada dos Parecis, central Brazil. <i>Neotropical Ichthyology</i> , 2006, 4, 301-308.	0.5	35
33	Glacial refugia, recolonization patterns and diversification forces in Alpine endemic <i>Megabunus</i> harvestmen. <i>Molecular Ecology</i> , 2016, 25, 2904-2919.	2.0	34
34	Microevolutionary processes impact macroevolutionary patterns. <i>BMC Evolutionary Biology</i> , 2018, 18, 123.	3.2	34
35	Quantifying the similarity between genes and geography across Alaska's alpine small mammals. <i>Journal of Biogeography</i> , 2016, 43, 1464-1476.	1.4	33
36	Testing for biogeographic mechanisms promoting divergence in Caribbean crickets (genus) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td</i>	1.4	32

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37	Testing main Amazonian rivers as barriers across time and space within widespread taxa. <i>Journal of Biogeography</i> , 2019, 46, 2444-2456.	1.4	30
38	Evolution of the latitudinal diversity gradient in the hyperdiverse ant genus <i>Pheidole</i> . <i>Global Ecology and Biogeography</i> , 2019, 28, 456-470.	2.7	29
39	Phylogenetic structure of vertebrate communities across the Australian arid zone. <i>Journal of Biogeography</i> , 2013, 40, 1059-1070.	1.4	28
40	Paraphyletic species no more – genomic data resolve a Pleistocene radiation and validate morphological species of the <i>Melanoplus scudderi</i> complex (Insecta: Orthoptera). <i>Systematic Entomology</i> , 2020, 45, 594-605.	1.7	28
41	Decimated little brown bats show potential for adaptive change. <i>Scientific Reports</i> , 2020, 10, 3023.	1.6	28
42	Common barriers, but temporal dissonance: Genomic tests suggest ecological and paleo-landscape sieves structure a coastal riverine fish community. <i>Molecular Ecology</i> , 2020, 29, 783-796.	2.0	27
43	Linking micro- and macroevolutionary perspectives to evaluate the role of Quaternary sea-level oscillations in island diversification. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2901-2917.	1.1	25
44	Terrestrial species adapted to sea dispersal: Differences in propagule dispersal of two Caribbean mangroves. <i>Molecular Ecology</i> , 2018, 27, 4612-4626.	2.0	25
45	Using gradient Forest to predict climate response and adaptation in Cork oak. <i>Journal of Evolutionary Biology</i> , 2021, 34, 910-923.	0.8	25
46	The Amazon-Paraguay Divide. , 2011, , 192-202.		25
47	Exploring the consequences of postmating-prezygotic interactions between the sexes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S357-9.	1.2	24
48	Ecological selection as the cause and sexual differentiation as the consequence of species divergence?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122236.	1.2	24
49	Museum epigenomics: Characterizing cytosine methylation in historic museum specimens. <i>Molecular Ecology Resources</i> , 2020, 20, 1161-1170.	2.2	24
50	Nonantagonistic interactions between the sexes revealed by the ecological consequences of reproductive traits. <i>Journal of Evolutionary Biology</i> , 2005, 18, 156-161.	0.8	23
51	Incorporating interspecific interactions into phylogeographic models: A case study with Californian oaks. <i>Molecular Ecology</i> , 2020, 29, 4510-4524.	2.0	21
52	Redescription and phylogenetic position of the enigmatic Neotropical electric fish <i>Iracema caiana</i> Triques (Gymnotiformes: Rhamphichthyidae) using x-ray computed tomography. <i>Neotropical Ichthyology</i> , 2011, 9, 457-469.	0.5	20
53	Geographic distributions, phenotypes, and phylogenetic relationships of <i>Phalloceros</i> (Cyprinodontiformes: Poeciliidae): Insights about diversification among sympatric species pools. <i>Molecular Phylogenetics and Evolution</i> , 2019, 132, 265-274.	1.2	20
54	Differences in Quaternary co-divergence reveals community-wide diversification in the mountains of southwest China varied among species. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202567.	1.2	20

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55	Quantitative insights into stochastic monoallelic expression of cytokine genes. <i>Immunology and Cell Biology</i> , 2007, 85, 315-322.	1.0	18
56	Evolving in isolation: Genetic tests reject recent connections of Amazonian savannas with the central Cerrado. <i>Journal of Biogeography</i> , 2019, 46, 196-211.	1.4	18
57	Phylogenetic relationships and historical biogeography of <i>Oligosarcus</i> (Teleostei: Characidae): Examining riverine landscape evolution in southeastern South America. <i>Molecular Phylogenetics and Evolution</i> , 2019, 140, 106604.	1.2	17
58	Socially Parasitic Ants Evolve a Mosaic of Host-Matching and Parasitic Morphological Traits. <i>Current Biology</i> , 2020, 30, 3639-3646.e4.	1.8	17
59	<i>Gymnotocinclus anosteos</i> , a new uniquely-plated genus and species of loriciid catfish (Teleostei: Tj ETQq1 1 0.784314 rgBT /Overlock 329-338.	0.5	16
60	Taxonomic review of <i>Hisonotus</i> Eigenmann & Eigenmann (Siluriformes: Loricariidae: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td 9, 1-48.	0.5	16
61	Comparative landscape genetics of two endemic torrent salamander species, <i>Rhyacotriton kezeri</i> and <i>R. variegatus</i> : implications for forest management and species conservation. <i>Conservation Genetics</i> , 2019, 20, 801-815.	0.8	16
62	By Animal, Water, or Wind: Can Dispersal Mode Predict Genetic Connectivity in Riverine Plant Species?. <i>Frontiers in Plant Science</i> , 2021, 12, 626405.	1.7	16
63	Taxonomical study of <i>Trichomycterus</i> (Siluriformes: Trichomycteridae) from the Ribeira de Iguape River basin reveals a new species recorded in the early 20th century. <i>Journal of Fish Biology</i> , 2020, 96, 886-904.	0.7	15
64	A New Species of <i>Gymnorhamphichthys</i> (Gymnotiformes: Rhamphichthyidae) from the Paran��Paraguay Basin. <i>Copeia</i> , 2011, 2011, 400-406.	1.4	14
65	A new characid fish, <i>Hyphessobryconhexastichos</i> (Characiformes: Characidae) from Chapada dos Parecis, Mato Grosso, Brazil. <i>Neotropical Ichthyology</i> , 2005, 3, 439-443.	0.5	14
66	Geographical isolation versus dispersal: Relictual alpine grasshoppers support a model of interglacial diversification with limited hybridization. <i>Molecular Ecology</i> , 2022, 31, 296-312.	2.0	14
67	A New Species of <i>Hisonotus</i> (Siluriformes: Loricariidae: Hypoptopomatinae) from the Laguna dos Patos Basin, Southern Brazil. <i>Copeia</i> , 2008, 2008, 510-516.	1.4	13
68	A new species of <i>Amaralia</i> Fowler (Siluriformes: Aspredinidae) from the Paran��Paraguay River Basin. <i>Zootaxa</i> , 2016, 4088, 531-46.	0.2	10
69	Molecular phylogeny of Banjo catfishes (Ostaryophisi: Siluriformes: Aspredinidae): A continental radiation in South American freshwaters. <i>Molecular Phylogenetics and Evolution</i> , 2018, 127, 459-467.	1.2	10
70	Dispersal barriers and opportunities drive multiple levels of phylogeographic concordance in the Southern Alps of New Zealand. <i>Molecular Ecology</i> , 2020, 29, 4665-4679.	2.0	10
71	Do estimated and actual species phylogenies match? Evaluation of East African cichlid radiations. <i>Molecular Phylogenetics and Evolution</i> , 2014, 78, 56-65.	1.2	9
72	Two new species of the banjo catfish <i>Bunocephalus</i> Kner (Siluriformes: Aspredinidae) from the upper and middle rio S��o Francisco basins, Brazil. <i>Neotropical Ichthyology</i> , 2015, 13, 499-512.	0.5	9

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73	A new species of the blind and miniature genus <i>Micromyzon</i> Friel and Lundberg, 1996 (Siluriformes: Aspredinidae) from the Orinoco River: describing catfish diversity using high-resolution computed tomography. <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> , 2016, 165, 37-53.	1.3	9
74	Description of a New Blind and Rare Species of <i>Xyliphius</i> (Siluriformes: Aspredinidae) from the Amazon Basin Using High-Resolution Computed Tomography. <i>Copeia</i> , 2017, 105, 14-28.	1.4	9
75	Riverscape properties contribute to the origin and structure of a hybrid zone in a Neotropical freshwater fish. <i>Journal of Evolutionary Biology</i> , 2020, 33, 1530-1542.	0.8	9
76	A New Species of <i>Rhamphichthys</i> (Gymnotiformes: Rhamphichthyidae) from the Amazon Basin. <i>Copeia</i> , 2015, 103, 34-41.	1.4	8
77	Testing which axes of species differentiation underlie covariance of phylogeographic similarity among montane sedge species. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 349-364.	1.1	8
78	Fishes from the Lower Urubamba river near Sepahua, Amazon Basin, Peru. <i>Check List</i> , 2011, 7, 413.	0.1	8
79	Functional connectivity in sympatric spiny rats reflects different dimensions of Amazonian forest association. <i>Journal of Biogeography</i> , 2021, 48, 3196-3209.	1.4	8
80	Fishes from the upper Yuruãj river, Amazon basin, Peru. <i>Check List</i> , 2009, 5, 673.	0.1	7
81	Identifying targets of selection in mosaic genomes with machine learning: applications in <i>Amphiprion nathanieli</i> for detecting sites within locally adapted chromosomal inversions. <i>Molecular Ecology</i> , 2016, 25, 2226-2243.	2.0	7
82	Drainage rearrangements and in situ diversification of an endemic freshwater fish genus from north-eastern Brazilian rivers. <i>Freshwater Biology</i> , 2022, 67, 759-773.	1.2	7
83	Hybrid enrichment of adaptive variation revealed by genotype-environment associations in montane sedges. <i>Molecular Ecology</i> , 2022, 31, 3722-3737.	2.0	7
84	EVIDENCE FOR OVERDOMINANT SELECTION MAINTAINING X-LINKED FITNESS VARIATION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1445-1453.	1.1	6
85	Anatomy and homology of the accessory electric organs of the toothless knifefishes (Rhamphichthyoidea: Gymnotiformes). <i>Journal of Fish Biology</i> , 2018, 93, 1059-1068.	0.7	6
86	Genomic insights into the origin of trans-Mediterranean disjunct distributions. <i>Journal of Biogeography</i> , 2021, 48, 440-452.	1.4	6
87	Using community phylogenetics to assess phylogenetic structure in the Fitzcarrald region of Western Amazonia. <i>Neotropical Ichthyology</i> , 2020, 18, .	0.5	6
88	Species delimitation in a range-restricted group of cascudinhos (Loricariidae: <i>Epiplatys</i>) supports morphological and genetic differentiation across coastal rivers of southern Brazil. <i>Journal of Fish Biology</i> , 2020, 97, 1748-1769.	0.7	5
89	There Is No "Rule of Thumb": Genomic Filter Settings for a Small Plant Population to Obtain Unbiased Gene Flow Estimates. <i>Frontiers in Plant Science</i> , 2021, 12, 677009.	1.7	5
90	A new species of <i>Hoplomyzon</i> (Siluriformes: Aspredinidae) from Maracaibo Basin, Venezuela: osteological description using high-resolution computed microtomography of a miniature species. <i>Neotropical Ichthyology</i> , 2017, 15, .	0.5	4

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91	A New Species of Corumbataia (Siluriformes: Loricariidae: Hypoptopomatinae) from Upper Rio Tocantins Basin, Central Brazil. Copeia, 2008, 2008, 552-557.	1.4	3
92	A new species of Pseudobunocephalus Friel, 2008 (Siluriformes: Aspredinidae) from the lower Tocantins and Mearim river drainages, North and Northeast of Brazil. Zootaxa, 2019, 4586, 109.	0.2	3
93	New Ecuadorian records of the eyeless banjo catfish Micromyzon akamai (Siluriformes: Aspredinidae) expand the species range and reveal intraspecific morphological variation. Journal of Fish Biology, 2021, 98, 1186-1191.	0.7	3
94	Evidence on the paleodrainage connectivity during Pleistocene: Phylogeography of a hypoptopomatine endemic to southeastern Brazilian coastal drainages. Neotropical Ichthyology, 2021, 19, .	0.5	3
95	Fishes from the Las Piedras River, Madre de Dios basin, Peruvian Amazon. Check List, 2012, 8, 973.	0.1	3
96	Phylogenetic relationships and description of two new species of Diapoma (Characidae: Stevardiinae) from the La Plata River basin. Neotropical Ichthyology, 2022, 20, .	0.5	3
97	A New Miniature Species of Acanthobunocephalus (Siluriformes: Aspredinidae) from the Lower Purus River Basin, Amazon Basin, Brazil. Copeia, 2020, 108, 347.	1.4	2
98	Seascape Genetics of the Atlantic Spotted Dolphin (<i>Stenella frontalis</i>) Based on Mitochondrial DNA. Journal of Heredity, 2021, 112, 646-662.	1.0	2
99	Occupancy spectrum distribution: application for coalescence simulation with generic mergers. Bioinformatics, 2020, 36, 3279-3280.	1.8	1
100	First record of Phallotorynus victoriae Oliveros, 1983 (Cyprinodontiformes, Poeciliidae) for Uruguay river basin and Rio Grande do Sul, southern Brazil. Check List, 2018, 14, 159-162.	0.1	1
101	Phylogeny, species delimitation and ecological and morphological diversity of <i>Characithecium</i> (Monogenoidea: Dactylogyridae). Parasitology, 2022, , 1-17.	0.7	1
102	Twelve years of soil preservation and rehabilitation on the Rio do Peixe watershed: promoting conservation agriculture. Land Degradation and Development, 2021, 32, 3431-3442.	1.8	0