Tiago P Carvalho

List of Publications by Year
in descending order

102 papers	4,786 citations	136950 32 h-index	110387 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. Systematic Biology, 2007, 56, 887-895.	5.6	657
2	Multispecies coalescent delimits structure, not species. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1607-1612.	7.1	640
3	Unforeseen Consequences of Excluding Missing Data from Next-Generation Sequences: Simulation Study of RAD Sequences. Systematic Biology, 2016, 65, 357-365.	5.6	267
4	Distribution modelling and statistical phylogeography: an integrative framework for generating and testing alternative biogeographical hypotheses. Journal of Biogeography, 2007, 34, 1833-1845.	3.0	245
5	Toward a paradigm shift in comparative phylogeography driven by trait-based hypotheses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8018-8024.	7.1	170
6	Estimating Species Trees: Methods of Phylogenetic Analysis When There Is Incongruence across Genes. Systematic Biology, 2009, 58, 463-467.	5.6	151
7	Coupling Genetic and Ecological-Niche Models to Examine How Past Population Distributions Contribute to Divergence. Current Biology, 2007, 17, 940-946.	3.9	148
8	Embracing heterogeneity: coalescing the Tree of Life and the future of phylogenomics. PeerJ, 2019, 7, e6399.	2.0	111
9	Importance of genetic drift during Pleistocene divergence as revealed by analyses of genomic variation. Molecular Ecology, 2005, 14, 4023-4032.	3.9	103
10	Exploring the population genetic consequences of the colonization process with spatioâ€temporally explicit models: insights from coupled ecological, demographic and genetic models in montane grasshoppers. Molecular Ecology, 2010, 19, 3727-3745.	3.9	100
11	ESTIMATING A GEOGRAPHICALLY EXPLICIT MODEL OF POPULATION DIVERGENCE. Evolution; International Journal of Organic Evolution, 2007, 61, 477-493.	2.3	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. Journal of Biogeography, 2015, 42, 2389-2401.	3.0	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. Evolution; International Journal of Organic Evolution, 2015, 69, 1501-1517.	2.3	88
14	The architecture of river networks can drive the evolutionary dynamics of aquatic populations. Evolution; International Journal of Organic Evolution, 2016, 70, 731-739.	2.3	77
15	WHY DOES A METHOD THAT FAILS CONTINUE TO BE USED?. Evolution; International Journal of Organic Evolution, 2008, 62, 2713-2717.	2.3	70
16	The Species versus Subspecies Conundrum: Quantitative Delimitation from Integrating Multiple Data Types within a Single Bayesian Approach in Hercules Beetles. Systematic Biology, 2016, 65, 685-699.	5.6	68
17	Speciesâ€specific responses to island connectivity cycles: refined models for testing phylogeographic concordance across a <scp>M</scp>editerranean <scp>P</scp>leistocene <scp>A</scp>ggregate <scp>I</scp>sland <scp>C</scp>omplex. Molecular Ecology, 2015, 24, 4252-4268.	3.9	67
18	Habitat corridors facilitate genetic resilience irrespective of species dispersal abilities or population sizes. Evolutionary Applications, 2015, 8, 454-463.	3.1	62

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19	Global phylogenetic structure of the hyperdiverse ant genus <i>Pheidole</i> reveals the repeated evolution of macroecological patterns. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141416.	2.6	55
20	Incorporating the speciation process into species delimitation. PLoS Computational Biology, 2021, 17, e1008924.	3.2	53
21	Four new species of Hisonotus (Siluriformes: Loricariidae) from the upper rio Uruguay, southeastern South America, with a review of the genus in the rio Uruguay basin. Zootaxa, 2009, 2113, 1-40.	0.5	47
22	Genomic evidence of survival near ice sheet margins for some, but not all, North American trees. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8431-8436.	7.1	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. American Journal of Botany, 2018, 105, 376-384.	1.7	45
24	Tests of speciesâ€specific models reveal the importance of drought in postglacial range shifts of a Mediterraneanâ€climate tree: insights from integrative distributional, demographic and coalescent modelling and ABC model selection. Molecular Ecology, 2016, 25, 4889-4906.	3.9	43
25	Applying species-tree analyses to deep phylogenetic histories: Challenges and potential suggested from a survey of empirical phylogenetic studies. Molecular Phylogenetics and Evolution, 2015, 83, 191-199.	2.7	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). Neotropical Ichthyology, 2008, 6, 663-678.	1.0	39
28	Full modeling versus summarizing gene-tree uncertainty: Method choice and species-tree accuracy. Molecular Phylogenetics and Evolution, 2012, 65, 501-509.	2.7	39
29	Trait-Dependent Biogeography: (Re)Integrating Biology into Probabilistic Historical Biogeographical Models. Trends in Ecology and Evolution, 2018, 33, 390-398.	8.7	39
30	Aquatic Biodiversity in the Amazon: Habitat Specialization and Geographic Isolation Promote Species Richness. Animals, 2011, 1, 205-241.	2.3	38
31	Flowing into the unknown: inferred paleodrainages for studying the ichthyofauna of Brazilian coastal rivers. Neotropical Ichthyology, 2018, 16, .	1.0	36
32	Two new species of Hyphessobrycon (Teleostei: Characidae) from upper rio TapajÃ³s basin on Chapada dos Parecis, central Brazil. Neotropical Ichthyology, 2006, 4, 301-308.	1.0	35
33	Glacial refugia, recolonization patterns and diversification forces in Alpineâ€endemic <i>Megabunus</i> harvestmen. Molecular Ecology, 2016, 25, 2904-2919.	3.9	34
34	Microevolutionary processes impact macroevolutionary patterns. BMC Evolutionary Biology, 2018, 18, 123.	3.2	34
35	Quantifying the similarity between genes and geography across Alaska's alpine small mammals. Journal of Biogeography, 2016, 43, 1464-1476.	3.0	33
36	Testing for biogeographic mechanisms promoting divergence in Caribbean crickets (genus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	3.0	32

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37	Testing main Amazonian rivers as barriers across time and space within widespread taxa. Journal of Biogeography, 2019, 46, 2444-2456.	3.0	30
38	Evolution of the latitudinal diversity gradient in the hyperdiverse ant genus <i>Pheidole</i>. Global Ecology and Biogeography, 2019, 28, 456-470.	5.8	29
39	Phylogenetic structure of vertebrate communities across the <scp>A</scp>ustralian arid zone. Journal of Biogeography, 2013, 40, 1059-1070.	3.0	28
40	Paraphyletic species no more â€“ genomic data resolve a Pleistocene radiation and validate morphological species of the <scp><i>Melanoplus scudderi</i></scp> complex (Insecta: Orthoptera). Systematic Entomology, 2020, 45, 594-605.	3.9	28
41	Decimated little brown bats show potential for adaptive change. Scientific Reports, 2020, 10, 3023.	3.3	28
42	Common barriers, but temporal dissonance: Genomic tests suggest ecological and paleoâ€landscape sieves structure a coastal riverine fish community. Molecular Ecology, 2020, 29, 783-796.	3.9	27
43	Linking microâ€•and macroevolutionary perspectives to evaluate the role of Quaternary seaâ€level oscillations in island diversification. Evolution; International Journal of Organic Evolution, 2017, 71, 2901-2917.	2.3	25
44	Terrestrial species adapted to sea dispersal: Differences in propagule dispersal of two Caribbean mangroves. Molecular Ecology, 2018, 27, 4612-4626.	3.9	25
45	Using gradient Forest to predict climate response and adaptation in Cork oak. Journal of Evolutionary Biology, 2021, 34, 910-923.	1.7	25
46	The Amazon-Paraguay Divide. , 2011, , 192-202.		25
47	Exploring the consequences of postmatingâ€“prezygotic interactions between the sexes. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S357-9.	2.6	24
48	Ecological selection as the cause and sexual differentiation as the consequence of species divergence?. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122236.	2.6	24
49	Museum epigenomics: Characterizing cytosine methylation in historic museum specimens. Molecular Ecology Resources, 2020, 20, 1161-1170.	4.8	24
50	Nonantagonistic interactions between the sexes revealed by the ecological consequences of reproductive traits. Journal of Evolutionary Biology, 2005, 18, 156-161.	1.7	23
51	Incorporating interspecific interactions into phylogeographic models: A case study with Californian oaks. Molecular Ecology, 2020, 29, 4510-4524.	3.9	21
52	Redescription and phylogenetic position of the enigmatic Neotropical electric fish Iracema caiana Triques (Gymnotiformes: Rhamphichthyidae) using x-ray computed tomography. Neotropical Ichthyology, 2011, 9, 457-469.	1.0	20
53	Geographic distributions, phenotypes, and phylogenetic relationships of Phalloceros (Cyprinodontiformes: Poeciliidae): Insights about diversification among sympatric species pools. Molecular Phylogenetics and Evolution, 2019, 132, 265-274.	2.7	20
54	Differences in Quaternary co-divergence reveals community-wide diversification in the mountains of southwest China varied among species. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202567.	2.6	20

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55	Quantitative insights into stochastic monoallelic expression of cytokine genes. Immunology and Cell Biology, 2007, 85, 315-322.	2.3	18
56	Evolving in isolation: Genetic tests reject recent connections of Amazonian savannas with the central Cerrado. Journal of Biogeography, 2019, 46, 196-211.	3.0	18
57	Phylogenetic relationships and historical biogeography of Oligosarcus (Teleostei: Characidae): Examining riverine landscape evolution in southeastern South America. Molecular Phylogenetics and Evolution, 2019, 140, 106604.	2.7	17
58	Socially Parasitic Ants Evolve a Mosaic of Host-Matching and Parasitic Morphological Traits. Current Biology, 2020, 30, 3639-3646.e4.	3.9	17
59	Gymnotocinclus anosteos, a new uniquely-plated genus and species of loricariid catfish (Teleostei:) Tj ETQq1 1 0.784314 rgBT /Overlock 329-338.	1.0	16
60	Taxonomic review of Hisonotus Eigenmann & Eigenmann (Siluriformes: Loricariidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (9, 1-48.	1.0	16
61	Comparative landscape genetics of two endemic torrent salamander species, Rhyacotriton kezeri and R. variegatus: implications for forest management and species conservation. Conservation Genetics, 2019, 20, 801-815.	1.5	16
62	By Animal, Water, or Wind: Can Dispersal Mode Predict Genetic Connectivity in Riverine Plant Species?. Frontiers in Plant Science, 2021, 12, 626405.	3.6	16
63	Taxonomical study of Trichomycterus (Siluriformes: Trichomycteridae) from the Ribeira de Iguape River basin reveals a new species recorded in the early 20th century. Journal of Fish Biology, 2020, 96, 886-904.	1.6	15
64	A New Species of Gymnorhamphichthys (Gymnotiformes: Rhamphichthyidae) from the ParanÃ¡â€“Paraguay Basin. Copeia, 2011, 2011, 400-406.	1.3	14
65	A new characid fish, Hyphessobryconhexastichos (Characiformes: Characidae) from Chapada dos Parecis, Mato Grosso, Brazil. Neotropical Ichthyology, 2005, 3, 439-443.	1.0	14
66	Geographical isolation versus dispersal: Relictual alpine grasshoppers support a model of interglacial diversification with limited hybridization. Molecular Ecology, 2022, 31, 296-312.	3.9	14
67	A New Species of Hisonotus (Siluriformes: Loricariidae: Hypoptopomatinae) from the Laguna dos Patos Basin, Southern Brazil. Copeia, 2008, 2008, 510-516.	1.3	13
68	A new species of Amaralia Fowler (Siluriformes: Aspredinidae) from the ParanÃ¡-Paraguay River Basin. Zootaxa, 2016, 4088, 531-46.	0.5	10
69	Molecular phylogeny of Banjo catfishes (Ostaryophisi: Siluriformes: Aspredinidae): A continental radiation in South American freshwaters. Molecular Phylogenetics and Evolution, 2018, 127, 459-467.	2.7	10
70	Dispersal barriers and opportunities drive multiple levels of phylogeographic concordance in the Southern Alps of New Zealand. Molecular Ecology, 2020, 29, 4665-4679.	3.9	10
71	Do estimated and actual species phylogenies match? Evaluation of East African cichlid radiations. Molecular Phylogenetics and Evolution, 2014, 78, 56-65.	2.7	9
72	Two new species of the banjo catfish Bunocephalus Kner (Siluriformes: Aspredinidae) from the upper and middle rio SÃ£o Francisco basins, Brazil. Neotropical Ichthyology, 2015, 13, 499-512.	1.0	9

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73	A new species of the blind and miniature genus<i>Micromyzon</i>Friel and Lundberg, 1996 (Silurifomes: Aspredinidae) from the Orinoco River: describing catfish diversity using high-resolution computed tomography. Proceedings of the Academy of Natural Sciences of Philadelphia, 2016, 165, 37-53.	0.5	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. Copeia, 2017, 105, 14-28.	1.3	9
75	Riverscape properties contribute to the origin and structure of a hybrid zone in a Neotropical freshwater fish. Journal of Evolutionary Biology, 2020, 33, 1530-1542.	1.7	9
76	A New Species ofRhamphichthys(Gymnotiformes: Rhamphichthyidae) from the Amazon Basin. Copeia, 2015, 103, 34-41.	1.3	8
77	Testing which axes of species differentiation underlie covariance of phylogeographic similarity among montane sedge species. Evolution; International Journal of Organic Evolution, 2021, 75, 349-364.	2.3	8
78	Fishes from the Lower Urubamba river near Sepahua, Amazon Basin, Peru. Check List, 2011, 7, 413.	0.4	8
79	Functional connectivity in sympatric spiny rats reflects different dimensions of Amazonian forestâ€association. Journal of Biogeography, 2021, 48, 3196-3209.	3.0	8
80	Fishes from the upper YuruÃ¡ river, Amazon basin, Peru. Check List, 2009, 5, 673.	0.4	7
81	Identifying targets of selection in mosaic genomes with machine learning: applications in <i><scp>A</scp>nopheles gambiae</i> for detecting sites within locally adapted chromosomal inversions. Molecular Ecology, 2016, 25, 2226-2243.	3.9	7
82	Drainage rearrangements and in situ diversification of an endemic freshwater fish genus from northâ€eastern Brazilian rivers. Freshwater Biology, 2022, 67, 759-773.	2.4	7
83	Hybrid enrichment of adaptive variation revealed by genotypeâ€"environment associations in montane sedges. Molecular Ecology, 2022, 31, 3722-3737.	3.9	7
84	EVIDENCE FOR OVERDOMINANT SELECTION MAINTAINING X-LINKED FITNESS VARIATION INDROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2006, 60, 1445-1453.	2.3	6
85	Anatomy and homology of the accessory electric organs of the toothless knifefishes (Rhamphichthyoidea: Gymnotiformes). Journal of Fish Biology, 2018, 93, 1059-1068.	1.6	6
86	Genomic insights into the origin of transâ€Mediterranean disjunct distributions. Journal of Biogeography, 2021, 48, 440-452.	3.0	6
87	Using community phylogenetics to assess phylogenetic structure in the Fitzcarrald region of Western Amazonia. Neotropical Ichthyology, 2020, 18, .	1.0	6
88	Species delimitation in a rangeâ€restricted group of cascudinhos (Loricariidae: <i>Epactionotus</i>) supports morphological and genetic differentiation across coastal rivers of southern Brazil. Journal of Fish Biology, 2020, 97, 1748-1769.	1.6	5
89	There Is No â€˜Rule of Thumbâ€™: Genomic Filter Settings for a Small Plant Population to Obtain Unbiased Gene Flow Estimates. Frontiers in Plant Science, 2021, 12, 677009.	3.6	5
90	A new species of Hoplomyzon (Siluriformes: Aspredinidae) from Maracaibo Basin, Venezuela: osteological description using high-resolution computed microtomography of a miniature species. Neotropical Ichthyology, 2017, 15, .	1.0	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.	1.3	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.	0.5	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.	1.6	3
94	Evidence on the paleodrainage connectivity during Pleistocene: Phylogeography of a hypoptopomatine endemic to southeastern Brazilian coastal drainages. Neotropical Ichthyology, 2021, 19, .	1.0	3
95	Fishes from the Las Piedras River, Madre de Dios basin, Peruvian Amazon. Check List, 2012, 8, 973.	0.4	3
96	Phylogenetic relationships and description of two new species of Diapoma (Characidae: Stevardiinae) from the La Plata River basin. Neotropical Ichthyology, 2022, 20, .	1.0	3
97	A New Miniature Species of Acanthobunocephalus (Silurifomes: Aspredinidae) from the Lower Purus River Basin, Amazon Basin, Brazil. Copeia, 2020, 108, 347.	1.3	2
98	Seascape Genetics of the Atlantic Spotted Dolphin (<i>Stenella frontalis</i>) Based on Mitochondrial DNA. Journal of Heredity, 2021, 112, 646-662.	2.4	2
99	Occupancy spectrum distribution: application for coalescence simulation with generic mergers. Bioinformatics, 2020, 36, 3279-3280.	4.1	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.	0.4	1
101	Phylogeny, species delimitation and ecological and morphological diversity of <i>Characithecium</i> (Monogenoidea: Dactylogyridae). Parasitology, 2022, , 1-17.	1.5	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.	3.9	0