

Gabriel C Costa

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,332
citations

172207

29
h-index

118652

62
g-index

75
all docs

75
docs citations

75
times ranked

6744
citing authors

#	ARTICLE	IF	CITATIONS
1	The conservation status of the world's reptiles. <i>Biological Conservation</i> , 2013, 157, 372-385.	1.9	642
2	Imputation of missing data in life-history trait datasets: which approach performs the best?. <i>Methods in Ecology and Evolution</i> , 2014, 5, 961-970.	2.2	258
3	Revisiting the historical distribution of Seasonally Dry Tropical Forests: new insights based on palaeodistribution modelling and palynological evidence. <i>Global Ecology and Biogeography</i> , 2011, 20, 272-288.	2.7	250
4	Phylogenetic niche conservatism and the evolutionary basis of ecological speciation. <i>Biological Reviews</i> , 2015, 90, 1248-1262.	4.7	233
5	Global priorities for conservation across multiple dimensions of mammalian diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7641-7646.	3.3	213
6	Climatic stability in the Brazilian Cerrado: implications for biogeographical connections of South American savannas, species richness and conservation in a biodiversity hotspot. <i>Journal of Biogeography</i> , 2012, 39, 1695-1706.	1.4	200
7	AmphiBIO, a global database for amphibian ecological traits. <i>Scientific Data</i> , 2017, 4, 170123.	2.4	188
8	Sampling bias and the use of ecological niche modeling in conservation planning: a field evaluation in a biodiversity hotspot. <i>Biodiversity and Conservation</i> , 2010, 19, 883-899.	1.2	183
9	Biome stability in South America over the last 30 kyr: Inferences from long-term vegetation dynamics and habitat modelling. <i>Global Ecology and Biogeography</i> , 2018, 27, 285-297.	2.7	119
10	The importance of biotic interactions in species distribution models: a test of the Eltonian noise hypothesis using parrots. <i>Journal of Biogeography</i> , 2014, 41, 513-523.	1.4	114
11	Vicariance and endemism in a Neotropical savanna hotspot: distribution patterns of Cerrado squamate reptiles. <i>Journal of Biogeography</i> , 2011, 38, 1907-1922.	1.4	105
12	Species and functional diversity accumulate differently in mammals. <i>Global Ecology and Biogeography</i> , 2016, 25, 1119-1130.	2.7	103
13	Predator size, prey size, and dietary niche breadth relationships in marine predators. <i>Ecology</i> , 2009, 90, 2014-2019.	1.5	89
14	Cetartiodactyla: Updating a time-calibrated molecular phylogeny. <i>Molecular Phylogenetics and Evolution</i> , 2019, 133, 256-262.	1.2	87
15	Estimating synchronous demographic changes across populations using <code>hABC</code> and its application for a herpetological community from northeastern Brazil. <i>Molecular Ecology</i> , 2017, 26, 4756-4771.	2.0	79
16	Niche Expansion and the Niche Variation Hypothesis: Does the Degree of Individual Variation Increase in Depauperate Assemblages?. <i>American Naturalist</i> , 2008, 172, 868-877.	1.0	75
17	Squamate richness in the Brazilian Cerrado and its environmental-climatic associations. <i>Diversity and Distributions</i> , 2007, 13, 714-724.	1.9	69
18	Optimal foraging constrains macroecological patterns: body size and dietary niche breadth in lizards. <i>Global Ecology and Biogeography</i> , 2008, 17, 670-677.	2.7	67

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19	Detecting the influence of climatic variables on species distributions: a test using GIS niche-based models along a steep longitudinal environmental gradient. <i>Journal of Biogeography</i> , 2008, 35, 637-646.	1.4	63
20	Disentangling the Role of Climate, Topography and Vegetation in Species Richness Gradients. <i>PLoS ONE</i> , 2016, 11, e0152468.	1.1	62
21	Life-History Patterns of Lizards of the World. <i>American Naturalist</i> , 2016, 187, 689-705.	1.0	58
22	Gastrointestinal Helminths from Six Species of Frogs and Three Species of Lizards, Sympatric in Pará State, Brazil. <i>Comparative Parasitology</i> , 2007, 74, 327-342.	0.0	51
23	Invasive potential of the coral <i>Tubastraea coccinea</i> in the southwest Atlantic. <i>Marine Ecology - Progress Series</i> , 2013, 480, 73-81.	0.9	47
24	Species diversity as a surrogate for conservation of phylogenetic and functional diversity in terrestrial vertebrates across the Americas. <i>Nature Ecology and Evolution</i> , 2019, 3, 53-61.	3.4	45
25	Speciation with gene flow in whiptail lizards from a Neotropical xeric biome. <i>Molecular Ecology</i> , 2015, 24, 5957-5975.	2.0	44
26	Snake diets and the deep history hypothesis. <i>Biological Journal of the Linnean Society</i> , 0, 101, 476-486.	0.7	40
27	Niche conservatism and the potential for the crayfish <i>Procambarus clarkii</i> to invade South America. <i>Freshwater Biology</i> , 2013, 58, 1379-1391.	1.2	40
28	Climatic suitability, isolation by distance and river resistance explain genetic variation in a Brazilian whiptail lizard. <i>Heredity</i> , 2018, 120, 251-265.	1.2	39
29	Global mammal beta diversity shows parallel assemblage structure in similar but isolated environments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161028.	1.2	38
30	Congruence and Conflict in the Higher-Level Phylogenetics of Squamate Reptiles: An Expanded Phylogenomic Perspective. <i>Systematic Biology</i> , 2021, 70, 542-557.	2.7	35
31	Geography of current and future global mammal extinction risk. <i>PLoS ONE</i> , 2017, 12, e0186934.	1.1	34
32	Plant phylogenetic diversity stabilizes large-scale ecosystem productivity. <i>Global Ecology and Biogeography</i> , 2019, 28, 1430-1439.	2.7	34
33	Evolutionary time drives global tetrapod diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172378.	1.2	32
34	A CRITICALLY ENDANGERED NEW SPECIES OF CNEMIDOPHORUS (SQUAMATA, TEIIDAE) FROM A CERRADO ENCLAVE IN SOUTHWESTERN AMAZONIA, BRAZIL. <i>Herpetologica</i> , 2003, 59, 76-88.	0.2	29
35	Spermatozoa of Pseudinae (Amphibia, Anura, Hylidae), with a test of the hypothesis that sperm ultrastructure correlates with reproductive modes in anurans. <i>Journal of Morphology</i> , 2004, 261, 196-205.	0.6	28
36	The signature of human pressure history on the biogeography of body mass in tetrapods. <i>Global Ecology and Biogeography</i> , 2017, 26, 1022-1034.	2.7	28

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37	Reproduction, Body Size, and Diet of <i>Polychrus acutirostris</i> (Squamata: Polychrotidae) in Two Contrasting Environments in Brazil. <i>Journal of Herpetology</i> , 2012, 46, 2-8.	0.2	27
38	Herpetofauna of protected areas in the Caatinga II: SerraÃda Capivara National Park, PiauÃ, Brazil. <i>Check List</i> , 2014, 10, 18.	0.1	25
39	ECOLOGY OF AN AMAZONIAN SAVANNA LIZARD ASSEMBLAGE IN MONTE ALEGRE, PARÃ-STATE, BRAZIL. <i>South American Journal of Herpetology</i> , 2006, 1, 61-71.	0.5	24
40	Morphological and ecological divergence in South American canids. <i>Journal of Biogeography</i> , 2017, 44, 821-833.	1.4	24
41	Decoupled erosion of amphibiansâ€™ phylogenetic and functional diversity due to extinction. <i>Global Ecology and Biogeography</i> , 2020, 29, 309-319.	2.7	24
42	Phylogeography of Muller's termite frog suggests the vicariant role of the Central Brazilian Plateau. <i>Journal of Biogeography</i> , 2018, 45, 2508-2519.	1.4	22
43	Integrating dataâ€deficient species in analyses of evolutionary history loss. <i>Ecology and Evolution</i> , 2016, 6, 8502-8514.	0.8	20
44	Lizards and termites revisited. <i>Austral Ecology</i> , 2006, 31, 417-424.	0.7	19
45	Can lizard richness be driven by termite diversity? Insights from the Brazilian Cerrado. <i>Canadian Journal of Zoology</i> , 2008, 86, 1-9.	0.4	19
46	Global patterns of terrestriality in amphibian reproduction. <i>Global Ecology and Biogeography</i> , 2019, 28, 744-756.	2.7	19
47	Amphibian Speciation Rates Support a General Role of Mountains as Biodiversity Pumps. <i>American Naturalist</i> , 2021, 198, E68-E79.	1.0	19
48	At the Water's Edge: Ecology of Semiaquatic Teiids in Brazilian Amazon. <i>Journal of Herpetology</i> , 2006, 40, 221-229.	0.2	18
49	Biogeography of the Amazon molly: ecological niche and range limits of an asexual hybrid species. <i>Global Ecology and Biogeography</i> , 2010, 19, 442-451.	2.7	18
50	Species Composition, Biogeography, and Conservation of the Caatinga Lizards. , 2017, , 151-180.		18
51	Microhabitat Variation Explains Localâ€scale Distribution of Terrestrial Amazonian Lizards in RondÃnia, Western Brazil. <i>Biotropica</i> , 2013, 45, 245-252.	0.8	17
52	Environmental variation is a major predictor of global trait turnover in mammals. <i>Journal of Biogeography</i> , 2018, 45, 225-237.	1.4	17
53	Aggression, color signaling, and performance of the male color morphs of a Brazilian lizard (<i>Tropidurus semitaeniatus</i>). <i>Behavioral Ecology and Sociobiology</i> , 2019, 73, 1.	0.6	16
54	An ultrastructural comparative study of the sperm of <i>Hyla pseudopseudis</i> , <i>Scinax rostratus</i> , and <i>S. squalirostris</i> (Amphibia: Anura: Hylidae). <i>Zoomorphology</i> , 2004, 123, 191-197.	0.4	15

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55	Model-based riverscape genetics: disentangling the roles of local and connectivity factors in shaping spatial genetic patterns of two Amazonian turtles with different dispersal abilities. <i>Evolutionary Ecology</i> , 2019, 33, 273-298.	0.5	15
56	Ecological aspects of the casque-headed frog <i>Aparasphenodon brunoi</i> (Anura, Hylidae) in a Restinga habitat in southeastern Brazil. <i>Phyllomedusa</i> , 2004, 3, 51.	0.2	14
57	Female Brazilian whiptail lizards (<i>Cnemidophorus ocellifer</i>) prefer males with high ultraviolet ornament reflectance. <i>Behavioural Processes</i> , 2017, 142, 33-39.	0.5	14
58	Niche dynamics of two cryptic <i>Prosopis</i> invading South American drylands. <i>Biological Invasions</i> , 2018, 20, 181-194.	1.2	13
59	No link between population isolation and speciation rate in squamate reptiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	13
60	Comparative analysis of the sperm ultrastructure of three species of <i>Phyllomedusa</i> (Anura, Hylidae). <i>Acta Zoologica</i> , 2005, 85, 257-262.	0.6	11
61	Life history data of lizards of the world. <i>Ecology</i> , 2015, 96, 594-594.	1.5	8
62	Ethogram With the Description of a New Behavioral Display for the Striped Lava Lizard, <i>Tropidurus semitaeniatus</i> . <i>South American Journal of Herpetology</i> , 2018, 13, 96.	0.5	8
63	Priority areas for conservation within four freshwater ecoregions in South America: A scale perspective based on freshwater crabs (<i>Anomura</i> , Aeglidae). <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2018, 28, 1077-1088.	0.9	8
64	Conspecifics of the Striped Lava Lizard are able to distinguish sex and male colour morphs in apparently homogeneous dull dorsal colouration. <i>Amphibia - Reptilia</i> , 2019, 40, 149-162.	0.1	6
65	Chemical signalling behaviour in intrasexual communication of lizards lacking femoral pores. <i>Ethology</i> , 2020, 126, 772-779.	0.5	6
66	SEXUAL DIMORPHISM, FEMALE FERTILITY, AND DIET OF PIPA ARRABALI (ANURA, PIPIDAE) IN SERRA DO CACHIMBO, PARÁ, BRAZIL. <i>South American Journal of Herpetology</i> , 2006, 1, 20-24.	0.5	5
67	Idiosyncratic responses to drivers of genetic differentiation in the complex landscapes of Isthmian Central America. <i>Heredity</i> , 2021, 126, 251-265.	1.2	5
68	The trade-off between color and size in lizards's conspicuous tails. <i>Behavioural Processes</i> , 2021, 192, 104496.	0.5	5
69	Habitat use and coexistence in two closely related species of <i>Herpsilochmus</i> (<i>Aves</i>) <i>Tj ETQq1 1 0.784314 rgBT 4/Overlo</i>	1.6	4
70	Multimodal female mate choice in a polymorphic flat rock lizard. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, .	0.6	4
71	The role of strict nature reserves in protecting genetic diversity in a semiarid vegetation in Brazil. <i>Biodiversity and Conservation</i> , 2019, 28, 2877-2890.	1.2	3
72	Placing the hybrid origin of the asexual Amazon molly (<i>Poecilia formosa</i>) based on historical climate data. <i>Biological Journal of the Linnean Society</i> , 2020, 129, 835-843.	0.7	3