

# Daniele Silvestro

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

8,072  
citations

101535  
36  
h-index

56717  
83  
g-index

110  
all docs

110  
docs citations

110  
times ranked

9694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drivers of diversification in freshwater gastropods vary over deep time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212057.	2.6	11
2	Regional landscape change triggered by Andean uplift: The extinction of Sparassodonta (Mammalia). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	3.5	1
3	<i>IUCNN</i> â€“ Deep learning approaches to approximate species' extinction risk. <i>Diversity and Distributions</i> , 2022, 28, 227-241.	4.1	19
4	A quantitative framework to infer the effect of traits, diversity and environment on dispersal and extinction rates from fossils. <i>Methods in Ecology and Evolution</i> , 2022, 13, 1201-1213.	5.2	2
5	Improving biodiversity protection through artificial intelligence. <i>Nature Sustainability</i> , 2022, 5, 415-424.	23.7	39
6	Climate warming can reduce biocontrol efficacy and promote plant invasion due to both genetic and transient metabolomic changes. <i>Ecology Letters</i> , 2022, 25, 1387-1400.	6.4	19
7	Estimating Alpha, Beta, and Gamma Diversity Through Deep Learning. <i>Frontiers in Plant Science</i> , 2022, 13, 839407.	3.6	18
8	Spatioâ€‘temporal evolution of the catuaba clade in the Neotropics: Morphological shifts correlate with habitat transitions. <i>Journal of Biogeography</i> , 2022, 49, 1086-1098.	3.0	3
9	Global Estimation and Mapping of the Conservation Status of Tree Species Using Artificial Intelligence. <i>Frontiers in Plant Science</i> , 2022, 13, 839792.	3.6	13
10	Global diversity dynamics in the fossil record are regionally heterogeneous. <i>Nature Communications</i> , 2022, 13, 2751.	12.8	15
11	On the Effect of Asymmetrical Trait Inheritance on Models of Trait Evolution. <i>Systematic Biology</i> , 2021, 70, 376-388.	5.6	13
12	<i>sampbias</i>, a method for quantifying geographic sampling biases in species distribution data. <i>Ecography</i> , 2021, 44, 25-32.	4.5	63
13	raxmlGUI 2.0: A graphical interface and toolkit for phylogenetic analyses using RAxML. <i>Methods in Ecology and Evolution</i> , 2021, 12, 373-377.	5.2	394
14	<i>iucn_sim</i>: a new program to simulate future extinctions based on IUCN threat status. <i>Ecography</i> , 2021, 44, 162-176.	4.5	17
15	Automated conservation assessment of the orchid family with deep learning. <i>Conservation Biology</i> , 2021, 35, 897-908.	4.7	59
16	Fossil data support a pre-Cretaceous origin of flowering plants. <i>Nature Ecology and Evolution</i> , 2021, 5, 449-457.	7.8	59
17	Extinction at the end-Cretaceous and the origin of modern Neotropical rainforests. <i>Science</i> , 2021, 372, 63-68.	12.6	115
18	Fossil-Informed Models Reveal a Boreotropical Origin and Divergent Evolutionary Trajectories in the Walnut Family (Juglandaceae). <i>Systematic Biology</i> , 2021, 71, 242-258.	5.6	37

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19	Current extinction rate in European freshwater gastropods greatly exceeds that of the late Cretaceous mass extinction. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	31
20	B&scpio</scp>â€œD<sc>em</scp>, a tool to explore the relationship between biodiversity data availability and socioâ€œpolitical conditions in time and space. <i>Journal of Biogeography</i> , 2021, 48, 2715-2726.	3.0	15
21	Slowly but surely: gradual diversification and phenotypic evolution in the hyper-diverse tree fern family Cyatheaceae. <i>Annals of Botany</i> , 2020, 125, 93-103.	2.9	14
22	A 450 million years long latitudinal gradient in ageâ€œdependent extinction. <i>Ecology Letters</i> , 2020, 23, 439-446.	6.4	15
23	Deep drilling reveals massive shifts in evolutionary dynamics after formation of ancient ecosystem. <i>Science Advances</i> , 2020, 6, .	10.3	23
24	Cenozoic evolution of the steppe-desert biome in Central Asia. <i>Science Advances</i> , 2020, 6, .	10.3	79
25	Disproportionate extinction of South American mammals drove the asymmetry of the Great American Biotic Interchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26281-26287.	7.1	41
26	A multiâ€œplatform package for the analysis of intraâ€œand interspecific trait evolution. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1439-1447.	5.2	11
27	Selective extinction against redundant species buffers functional diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201162.	2.6	19
28	The rise of angiosperms pushed conifers to decline during global cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28867-28875.	7.1	79
29	The past and future human impact on mammalian diversity. <i>Science Advances</i> , 2020, 6, .	10.3	91
30	A quantitative workflow for modeling diversification in material culture. <i>PLoS ONE</i> , 2020, 15, e0227579.	2.5	7
31	Brain expansion in early hominins predicts carnivore extinctions in East Africa. <i>Ecology Letters</i> , 2020, 23, 537-544.	6.4	26
32	Functional diversity of marine megafauna in the Anthropocene. <i>Science Advances</i> , 2020, 6, eaay7650.	10.3	124
33	outsider: Install and run programs, outside of R, inside of R. <i>Journal of Open Source Software</i> , 2020, 5, 2038.	4.6	0
34	Early Arrival and Climatically-Linked Geographic Expansion of New World Monkeys from Tiny African Ancestors. <i>Systematic Biology</i> , 2019, 68, 78-92.	5.6	50
35	The early wasp plucks the flower: disparate extant diversity of sawfly superfamilies (Hymenoptera:). <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> <i>Linnean Society</i> , 2019, 128, 1-19.	1.6	22
36	Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework. <i>Paleobiology</i> , 2019, 45, 546-570.	2.0	70

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37	<scp>CoordinateCleaner</scp>: Standardized cleaning of occurrence records from biological collection databases. <i>Methods in Ecology and Evolution</i> , 2019, 10, 744-751.	5.2	473
38	Detecting the macroevolutionary signal of species interactions. <i>Journal of Evolutionary Biology</i> , 2019, 32, 769-782.	1.7	66
39	Simultaneous Bayesian inference of phylogeny and molecular coevolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5027-5036.	7.1	9
40	Clownfishes evolution below and above the species level. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20171796.	2.6	42
41	Evolution of the sabertooth mandible: A deadly ecomorphological specialization. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 496, 166-174.	2.3	23
42	The impact of endothermy on the climatic niche evolution and the distribution of vertebrate diversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 459-464.	7.8	91
43	Building up biogeography: Pattern to process. <i>Journal of Biogeography</i> , 2018, 45, 1223-1230.	3.0	25
44	Estimating Age-Dependent Extinction: Contrasting Evidence from Fossils and Phylogenies. <i>Systematic Biology</i> , 2018, 67, 458-474.	5.6	32
45	Provenance analysis of the Pliocene Ware Formation in the Guajira Peninsula, northern Colombia: Paleodrainage implications. <i>Journal of South American Earth Sciences</i> , 2018, 81, 66-77.	1.4	9
46	Closing the gap between palaeontological and neontological speciation and extinction rate estimates. <i>Nature Communications</i> , 2018, 9, 5237.	12.8	72
47	Diversification dynamics of mammalian clades during the K&C=pg mass extinction. <i>Biology Letters</i> , 2018, 14, 20180458.	2.3	16
48	Amazonia is the primary source of Neotropical biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6034-6039.	7.1	352
49	phylotaR: An Automated Pipeline for Retrieving Orthologous DNA Sequences from GenBank in R. <i>Life</i> , 2018, 8, 20.	2.4	26
50	A novel approach to study the morphology and chemistry of pollen in a phylogenetic context, applied to the halophytic taxon <i>Nitraria</i> L.(Nitrariaceae). <i>PeerJ</i> , 2018, 6, e5055.	2.0	25
51	Conceptual and empirical advances in Neotropical biodiversity research. <i>PeerJ</i> , 2018, 6, e5644.	2.0	107
52	restez: Create and Query a Local Copy of GenBank in R. <i>Journal of Open Source Software</i> , 2018, 3, 1102.	4.6	4
53	Toward a Self-Updating Platform for Estimating Rates of Speciation and Migration, Ages, and Relationships of Taxa. <i>Systematic Biology</i> , 2017, 66, syw066.	5.6	42
54	SpeciesGeoCoder: Fast Categorization of Species Occurrences for Analyses of Biodiversity, Biogeography, Ecology, and Evolution. <i>Systematic Biology</i> , 2017, 66, syw064.	5.6	58

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55	Mammal body size evolution in North America and Europe over 20 Myr: similar trends generated by different processes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162361.	2.6	19
56	Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. <i>New Phytologist</i> , 2017, 215, 891-905.	7.3	170
57	Interactions within and between clades shaped the diversification of terrestrial carnivores. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 1855-1864.	2.3	33
58	Comment (1) on "Formation of the Isthmus of Panama" by Dea et al. .. <i>Science Advances</i> , 2017, 3, e1602321.	10.3	88
59	The Pliocene marine megafauna extinction and its impact on functional diversity. <i>Nature Ecology and Evolution</i> , 2017, 1, 1100-1106.	7.8	102
60	Environmentally driven extinction and opportunistic origination explain fern diversification patterns. <i>Scientific Reports</i> , 2017, 7, 4831.	3.3	92
61	Molecular phylogeny, character evolution and historical biogeography of <i>Cryptanthus</i> Otto & A. Dietr. (Bromeliaceae). <i>Molecular Phylogenetics and Evolution</i> , 2017, 107, 152-165.	2.7	12
62	Progress to extinction: increased specialisation causes the demise of animal clades. <i>Scientific Reports</i> , 2016, 6, 30965.	3.3	32
63	Competition and extinction explain the evolution of diversity in American automobiles. <i>Palgrave Communications</i> , 2016, 2, .	4.7	4
64	Bridging Inter- and Intraspecific Trait Evolution with a Hierarchical Bayesian Approach. <i>Systematic Biology</i> , 2016, 65, 417-431.	5.6	32
65	Fossil biogeography: a new model to infer dispersal, extinction and sampling from palaeontological data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150225.	4.0	51
66	The SIB Swiss Institute of Bioinformatics' resources: focus on curated databases. <i>Nucleic Acids Research</i> , 2016, 44, D27-D37.	14.5	64
67	Decoupled evolution of floral traits and climatic preferences in a clade of Neotropical Gesneriaceae. <i>BMC Evolutionary Biology</i> , 2015, 15, 247.	3.2	25
68	Measurement errors should always be incorporated in phylogenetic comparative analysis. <i>Methods in Ecology and Evolution</i> , 2015, 6, 340-346.	5.2	77
69	Revisiting the origin and diversification of vascular plants through a comprehensive Bayesian analysis of the fossil record. <i>New Phytologist</i> , 2015, 207, 425-436.	7.3	128
70	The role of clade competition in the diversification of North American canids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8684-8689.	7.1	148
71	An engine for global plant diversity: highest evolutionary turnover and emigration in the American tropics. <i>Frontiers in Genetics</i> , 2015, 6, 130.	2.3	77
72	Biological evidence supports an early and complex emergence of the Isthmus of Panama. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6110-6115.	7.1	460

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73	Continental faunal exchange and the asymmetrical radiation of carnivores. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151952.	2.6	29
74	Reply to Lessios and Marko et al.: Early and progressive migration across the Isthmus of Panama is robust to missing data and biases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5767-8.	7.1	33
75	Evolutionary footprint of coevolving positions in genes. <i>Bioinformatics</i> , 2014, 30, 1241-1249.	4.1	24
76	DISENTANGLING THE EFFECTS OF KEY INNOVATIONS ON THE DIVERSIFICATION OF BROMELIOIDEAE (BROMELIACEAE). <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 163-175.	2.3	148
77	Molecular phylogeny of the Brazilian endemic genus <i>Orthophytum</i> (Bromelioideae, Bromeliaceae) and its implications on morphological character evolution. <i>Molecular Phylogenetics and Evolution</i> , 2014, 77, 54-64.	2.7	32
78	PyRate: a new program to estimate speciation and extinction rates from incomplete fossil data. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1126-1131.	5.2	106
79	The red island and the seven dwarfs: body size reduction in Cheirogaleidae. <i>Journal of Biogeography</i> , 2014, 41, 1833-1847.	3.0	25
80	Bayesian Estimation of Speciation and Extinction from Incomplete Fossil Occurrence Data. <i>Systematic Biology</i> , 2014, 63, 349-367.	5.6	157
81	Seeing the Wood through the Trees: The Current State of Higher Systematics in the Strepsirhini. <i>Folia Primatologica</i> , 2013, 84, 201-219.	0.7	56
82	Spatio-temporal evolution of <i>Fosterella</i> (Bromeliaceae) in the Central Andean biodiversity hotspot. <i>Journal of Biogeography</i> , 2013, 40, 869-880.	3.0	23
83	raxmlGUI: a graphical front-end for RAXML. <i>Organisms Diversity and Evolution</i> , 2012, 12, 335-337.	1.6	2,469
84	A Phylogenetic Analysis of Human Syntenies Revealed by Chromosome Painting in Euarchontoglires Orders. <i>Journal of Mammalian Evolution</i> , 2011, 18, 131-146.	1.8	6
85	A Bayesian framework to estimate diversification rates and their variation through time and space. <i>BMC Evolutionary Biology</i> , 2011, 11, 311.	3.2	86
86	Description of the male reproductive system of <i>Paguristes eremita</i> (Anomura, Diogenidae) and its placement in a phylogeny of diogenid species based on spermatozoal and spermatophore ultrastructure. <i>Zoologischer Anzeiger</i> , 2010, 248, 299-312.	0.9	6
87	Detection of recent hybridization between sympatric Chilean <i>Puya</i> species (Bromeliaceae) using AFLP markers and reconstruction of complex relationships. <i>Molecular Phylogenetics and Evolution</i> , 2010, 57, 1105-1119.	2.7	55
88	Reproductive Biology of Mediterranean Hermit Crabs: Fine Structure of Spermatophores and Spermatozoa of <i>Diogenes pugilator</i> (Decapoda: Anomura) and Its Bearing on a Sperm Phylogeny of Diogenidae. <i>Journal of Crustacean Biology</i> , 2008, 28, 534-542.	0.8	14
89	Molecular phylogenetics, historical biogeography and character evolution in <i>Dyckia</i> (Bromeliaceae, Pitcairnioideae). <i>Botanical Journal of the Linnean Society</i> , 0, , .	1.6	8
90	Exploring the Impact of Political Regimes on Biodiversity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3

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91	Diversification dynamics of cheilostome bryozoans based on a Bayesian analysis of the fossil record. Palaeontology, 0, , .	2.2	7