Scott J Steppan

List of Publications by Year
in descending order

34 papers	2,729 citations	331670 21 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	2823 citing authors

#	Article	IF	Citations
1	Phylogeny and Divergence-Date Estimates of Rapid Radiations in Muroid Rodents Based on Multiple Nuclear Genes. Systematic Biology, 2004, 53, 533-553.	5.6	479
2	Comparative quantitative genetics: evolution of the G matrix. Trends in Ecology and Evolution, 2002, 17, 320-327.	8.7	467
3	Muroid rodent phylogenetics: 900-species tree reveals increasing diversification rates. PLoS ONE, 2017, 12, e0183070.	2.5	238
4	Ecological Opportunity and Incumbency in the Diversification of Repeated Continental Colonizations by Muroid Rodents. Systematic Biology, 2013, 62, 837-864.	5.6	192
5	Pliocene colonization and adaptive radiations in Australia and New Guinea (Sahul): Multilocus systematics of the old endemic rodents (Muroidea: Murinae). Molecular Phylogenetics and Evolution, 2008, 47, 84-101.	2.7	187
6	Nuclear DNA phylogeny of the squirrels (Mammalia: Rodentia) and the evolution of arboreality from c-myc and RAG1. Molecular Phylogenetics and Evolution, 2004, 30, 703-719.	2.7	176
7	Multigene phylogeny of the Old World mice, Murinae, reveals distinct geographic lineages and the declining utility of mitochondrial genes compared to nuclear genes. Molecular Phylogenetics and Evolution, 2005, 37, 370-388.	2.7	128
8	Molecular Phylogeny of the Marmots (Rodentia: Sciuridae): Tests of Evolutionary and Biogeographic Hypotheses. Systematic Biology, 1999, 48, 715-734.	5.6	111
9	Molecular phylogeny of the endemic Philippine rodent Apomys (Muridae) and the dynamics of diversification in an oceanic archipelago. Biological Journal of the Linnean Society, 2003, 80, 699-715.	1.6	103
10	Molecular systematics of gerbils and deomyines (Rodentia: Gerbillinae, Deomyinae) and a test of desert adaptation in the tympanic bulla. Journal of Zoological Systematics and Evolutionary Research, 2015, 53, 312-330.	1.4	62
11	PHYLOGENETIC ANALYSIS OF PHENOTYPIC COVARIANCE STRUCTURE. I. CONTRASTING RESULTS FROM MATRIX CORRELATION AND COMMON PRINCIPAL COMPONENT ANALYSES. Evolution; International Journal of Organic Evolution, 1997, 51, 571-586.	2.3	57
12	Phylogenetic Analysis of Phenotypic Covariance Structure. I. Contrasting Results from Matrix Correlation and Common Principal Component Analysis. Evolution; International Journal of Organic Evolution, 1997, 51, 571.	2.3	55
13	Association between climate and body size in rodents: A phylogenetic test of Bergmann's rule. Mammalian Biology, 2016, 81, 219-225.	1.5	53
14	PHYLOGENETIC ANALYSIS OF PHENOTYPIC COVARIANCE STRUCTURE. II. RECONSTRUCTING MATRIX EVOLUTION. Evolution; International Journal of Organic Evolution, 1997, 51, 587-594.	2.3	44
15	Oceanic islands of Wallacea as a source for dispersal and diversification of murine rodents. Journal of Biogeography, 2019, 46, 2752-2768.	3.0	41
16	Flexural stiffness patterns of butterfly wings (Papilionoidea). The Journal of Research on the Lepidoptera, 2000, 35, 61-77.	0.1	40
17	Ecomorphological diversification following continental colonization in muroid rodents (Rodentia:) Tj ETQq1 1 0.784314 rgBT /Overloc	1.6	31
18	Discovery of the worldâ€™s highest-dwelling mammal. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18169-18171.	7.1	31

#	Article	IF	Citations
19	A phylogenetic test of adaptation to deserts and aridity in skull and dental morphology across rodents. Journal of Mammalogy, 2018, 99, 1197-1216.	1.3	30
20	Testing diversification models of endemic Philippine forest mice (Apomys) with nuclear phylogenies across elevational gradients reveals repeated colonization of isolated mountain ranges. Journal of Biogeography, 2015, 42, 51-64.	3.0	29
21	The Role of Geography in Adaptive Radiation. American Naturalist, 2018, 192, 415-431.	2.1	28
22	Evolutionary journey of the retroviral restriction gene Fv1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10130-10135.	7.1	26
23	Tempo and mode of evolution of oryzomyine rodents (Rodentia, Cricetidae, Sigmodontinae): A phylogenomic approach. Molecular Phylogenetics and Evolution, 2021, 159, 107120.	2.7	21
24	Doubling diversity: a cautionary tale of previously unsuspected mammalian diversity on a tropical oceanic island. Frontiers of Biogeography, 2016, 8, .	1.8	19
25	Disparity and Evolutionary Rate Do Not Explain Diversity Patterns in Muroid Rodents (Rodentia:) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	16
26	How small an island? Speciation by endemic mammals (Apomys, Muridae) on an oceanic Philippine island. Journal of Biogeography, 2018, 45, 1675-1687.	3.0	13
27	The Phyllotis xanthopygus complex (Rodentia, Cricetidae) in central Andes, systematics and description of a new species. Zoologica Scripta, 2021, 50, 689-706.	1.7	12
28	Ecological and Ecomorphological Specialization Are Not Associated with Diversification Rates in Muroid Rodents (Rodentia: Muroidea). Evolutionary Biology, 2018, 45, 268-286.	1.1	11
29	Community structure in ecological assemblages of desert rodents. Biological Journal of the Linnean Society, 2018, 124, 308-318.	1.6	11
30	Evidence of a population of leaf-eared micePhyllotis vaccarumabove 6,000 m in the Andes and a survey of high-elevation mammals. Journal of Mammalogy, 2022, 103, 776-785.	1.3	8
31	Uncovering cryptic diversity does not end: a new species of leaf-eared mouse, genus Phyllotis (Rodentia, Cricetidae), from Central Sierras of Argentina. Mammalia, 2022, 86, 393-405.	0.7	6
32	Comparative Quantitative Genetics of the Pelvis in Four-Species of Rodents and the Conservation of Genetic Covariance and Correlation Structure. Evolutionary Biology, 2022, 49, 71-83.	1.1	3
33	Aligning the Spaces: A Comment on Pollyâ€"Developmental Dynamics and G-Matrices. Evolutionary Biology, 2008, 35, 108-110.	1.1	1
34	A rodent anchored hybrid enrichment probe set for a range of phylogenetic utility: From order to species. Molecular Ecology Resources, 2021, , .	4.8	0