David M Hillis

List of Publications by Year
in descending order

109	15,185	28274	55	29157	104
papers	citations		h-index		g-index

112	112	112	13412
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genomic adaptations for arboreal locomotion in Asian flying treefrogs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2116342119.	7.1	6
2	Expression of rhodopsin and opsin in lateâ€stage epigean and hypogean salamander embryos. FASEB Journal, 2022, 36, .	0.5	0
3	Herpetological phylogeographic analyses support a Miocene focal point of Himalayan uplift and biological diversification. National Science Review, 2021, 8, nwaa263.	9.5	46
4	Contemporary Methods and Evidence for Species Delimitation. Ichthyology and Herpetology, 2021, 109, .	0.8	22
5	How mitonuclear discordance and geographic variation have confounded species boundaries in a widely studied snake. Molecular Phylogenetics and Evolution, 2021, 162, 107194.	2.7	21
6	The Multispecies Coalescent Over-Splits Species in the Case of Geographically Widespread Taxa. Systematic Biology, 2020, 69, 184-193.	5.6	99
7	Does breeding season variation affect evolution of a sexual signaling trait in a tropical lizard clade?. Ecology and Evolution, 2020, 10, 3738-3746.	1.9	4
8	Asymmetric biotic interchange across the Bering land bridge between Eurasia and North America. National Science Review, 2019, 6, 739-745.	9.5	43
9	Genomic and transcriptomic investigations of the evolutionary transition from oviparity to viviparity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3646-3655.	7.1	43
10	Species delimitation in endangered groundwater salamanders: Implications for aquifer management and biodiversity conservation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2624-2633.	7.1	74
11	Species Delimitation in Herpetology. Journal of Herpetology, 2019, 53, 3.	0.5	102
12	Species groups distributed across elevational gradients reveal convergent and continuous genetic adaptation to high elevations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10634-E10641.	7.1	57
13	Comparative genomic investigation of high-elevation adaptation in ectothermic snakes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8406-8411.	7.1	119
14	Evolution of Animal Neural Systems. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 377-398.	8.3	36
15	Phylogenomics reveals rapid, simultaneous diversification of three major clades of Gondwanan frogs at the Cretaceousâ€“Paleogene boundary. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5864-E5870.	7.1	261
16	A Mitochondrial Genome of Rhyparochromidae (Hemiptera: Heteroptera) and a Comparative Analysis of Related Mitochondrial Genomes. Scientific Reports, 2016, 6, 35175.	3.3	31
17	Spatiotemporal Diversification of the True Frogs (GenusRana): A Historical Framework for a Widely Studied Group of Model Organisms. Systematic Biology, 2016, 65, 824-842.	5.6	125
18	Complex Homology and the Evolution of Nervous Systems. Trends in Ecology and Evolution, 2016, 31, 127-135.	8.7	52

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19	Modeling Character Change Heterogeneity in Phylogenetic Analyses of Morphology through the Use of Priors. Systematic Biology, 2016, 65, 602-611.	5.6	97
20	Which came first: The lizard or the egg? Robustness in phylogenetic reconstruction of ancestral states. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 504-516.	1.3	57
21	How do SNP ascertainment schemes and population demographics affect inferences about population history?. BMC Genomics, 2015, 16, 266.	2.8	49
22	Convergence of ion channel genome content in early animal evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E846-51.	7.1	66
23	Whole-genome sequence of the Tibetan frog Nanorana parkeri and the comparative evolution of tetrapod genomes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1257-62.	7.1	159
24	Bayesian Analysis Using a Simple Likelihood Model Outperforms Parsimony for Estimation of Phylogeny from Discrete Morphological Data. PLoS ONE, 2014, 9, e109210.	2.5	224
25	A Genomic Approach for Distinguishing between Recent and Ancient Admixture as Applied to Cattle. Journal of Heredity, 2014, 105, 445-456.	2.4	15
26	Long-branch attraction and the phylogeny of true water bugs (Hemiptera: Nepomorpha) as estimated from mitochondrial genomes. BMC Evolutionary Biology, 2014, 14, 99.	3.2	27
27	Independent acquisition of sodium selectivity in bacterial and animal sodium channels. Current Biology, 2013, 23, R948-R949.	3.9	32
28	Efficient Sequencing of Anuran mtDNAs and a Mitogenomic Exploration of the Phylogeny and Evolution of Frogs. Molecular Biology and Evolution, 2013, 30, 1899-1915.	8.9	167
29	Diversification of rhacophorid frogs provides evidence for accelerated faunal exchange between India and Eurasia during the Oligocene. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3441-3446.	7.1	106
30	Recent host-shifts in ranaviruses: signatures of positive selection in the viral genome. Journal of General Virology, 2013, 94, 2082-2093.	2.9	29
31	New World cattle show ancestry from multiple independent domestication events. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1398-406.	7.1	126
32	Targeted Enrichment: Maximizing Orthologous Gene Comparisons across Deep Evolutionary Time. PLoS ONE, 2013, 8, e67908.	2.5	62
33	Phylogeny Unites Animal Sodium Leak Channels with Fungal Calcium Channels in an Ancient, Voltage-Insensitive Clade. Molecular Biology and Evolution, 2012, 29, 3613-3616.	8.9	53
34	Phylogeny, diversity, and species delimitation of the North American Round-Nosed Minnows (Teleostei:) Tj ETQq0 0 0 rgBT /Overlock 10 Evolution, 2012, 62, 427-446.	2.7	29
35	The Potential Role of Androgenesis in Cytoplasmicâ€“Nuclear Phylogenetic Discordance. Systematic Biology, 2011, 60, 87-96.	5.6	34
36	Evolution of sodium channels predates the origin of nervous systems in animals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9154-9159.	7.1	130

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37	Rare gene capture in predominantly androgenetic species. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9520-9524.	7.1	31
38	Deletion of the eIFiso4G subunit of the Arabidopsis eIFiso4F translation initiation complex impairs health and viability. Plant Molecular Biology, 2010, 74, 249-263.	3.9	78
39	Source identification in two criminal cases using phylogenetic analysis of HIV-1 DNA sequences. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21242-21247.	7.1	80
40	Molecular evolution of Na⁺ channels in teleost fishes. Integrative Zoology, 2009, 4, 64-74.	2.6	10
41	Speciation by monobrachial centric fusions: A test of the model using nuclear DNA sequences from the bat genus Rhogeessa. Molecular Phylogenetics and Evolution, 2009, 50, 256-267.	2.7	18
42	Taxonomic Freedom and the Role of Official Lists of Species Names. Herpetologica, 2009, 65, 115-128.	0.4	88
43	Molecular evolution of southern North American Cyprinidae (Actinopterygii), with the description of the new genus Tampichthys from central Mexico. Molecular Phylogenetics and Evolution, 2008, 47, 729-756.	2.7	51
44	ALL-MALE ASEXUALITY: ORIGIN AND MAINTENANCE OF ANDROGENESIS IN THE ASIAN CLAM CORBICULA. Evolution; International Journal of Organic Evolution, 2008, 62, 1119-1136.	2.3	70
45	Evolutionary history of the genus Rhogeessa (Chiroptera: Vespertilionidae) as revealed by mitochondrial DNA sequences. Journal of Mammalogy, 2008, 89, 744-754.	1.3	18
46	Taxon Sampling Affects Inferences of Macroevolutionary Processes from Phylogenetic Trees. Systematic Biology, 2008, 57, 160-166.	5.6	150
47	Toxin-Resistant Sodium Channels: Parallel Adaptive Evolution across a Complete Gene Family. Molecular Biology and Evolution, 2008, 25, 1016-1024.	8.9	123
48	Molecular evolution of communication signals in electric fish. Journal of Experimental Biology, 2008, 211, 1814-1818.	1.7	40
49	Constraints in naming parts of the Tree of Life. Molecular Phylogenetics and Evolution, 2007, 42, 331-338.	2.7	73
50	Phylogeny of North American fireflies (Coleoptera: Lampyridae): Implications for the evolution of light signals. Molecular Phylogenetics and Evolution, 2007, 45, 33-49.	2.7	93
51	MAKING EVOLUTION RELEVANT AND EXCITING TO BIOLOGY STUDENTS. Evolution; International Journal of Organic Evolution, 2007, 61, 1261-1264.	2.3	38
52	Asexual Evolution: Can Species Exist without Sex?. Current Biology, 2007, 17, R543-R544.	3.9	20
53	Resolution of Phylogenetic Conflict in Large Data Sets by Increased Taxon Sampling. Systematic Biology, 2006, 55, 522-529.	5.6	253
54	Polyploids with Different Origins and Ancestors Form a Single Sexual Polyploid Species. American Naturalist, 2006, 167, E88-E101.	2.1	93

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55	Phylogeny and Biogeography of a Cosmopolitan Frog Radiation: Late Cretaceous Diversification Resulted in Continent-Scale Endemism in the Family Ranidae. Systematic Biology, 2006, 55, 579-594.	5.6	190
56	Phylogeographic Structure and Color Pattern Variation among Populations of Plethodon albagula on the Edwards Plateau of Central Texas. Copeia, 2006, 2006, 760-768.	1.3	9
57	Sodium channel genes and the evolution of diversity in communication signals of electric fishes: Convergent molecular evolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3675-3680.	7.1	149
58	Phylogeny of the New World true frogs (Rana). Molecular Phylogenetics and Evolution, 2005, 34, 299-314.	2.7	170
59	Analysis and Visualization of Tree Space. Systematic Biology, 2005, 54, 471-482.	5.6	183
60	Divergent gene copies in the asexual class Bdelloidea (Rotifera) separated before the bdelloid radiation or within bdelloid families. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1622-1625.	7.1	50
61	THE HISTORY OF A NEARCTIC COLONIZATION: MOLECULAR PHYLOGENETICS AND BIOGEOGRAPHY OF THE NEARCTIC TOADS (BUFO). Evolution; International Journal of Organic Evolution, 2004, 58, 2517-2535.	2.3	101
62	THE HISTORY OF A NEARCTIC COLONIZATION: MOLECULAR PHYLOGENETICS AND BIOGEOGRAPHY OF THE NEARCTIC TOADS (BUFO). Evolution; International Journal of Organic Evolution, 2004, 58, 2517.	2.3	9
63	When Are Phylogenetic Analyses Misled by Convergence? A Case Study in Texas Cave Salamanders. Systematic Biology, 2003, 52, 501-514.	5.6	147
64	Is Sparse Taxon Sampling a Problem for Phylogenetic Inference?. Systematic Biology, 2003, 52, 124-126.	5.6	329
65	Molecular evidence of HIV-1 transmission in a criminal case. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14292-14297.	7.1	194
66	Genetic Algorithms and Parallel Processing in Maximum-Likelihood Phylogeny Inference. Molecular Biology and Evolution, 2002, 19, 1717-1726.	8.9	79
67	THE IMPORTANCE OF THE ONTOGENETIC NICHE IN RESOURCE-ASSOCIATED DIVERGENCE: EVIDENCE FROM A GENERALIST GRASSHOPPER. Evolution; International Journal of Organic Evolution, 2002, 56, 731.	2.3	4
68	Increased Taxon Sampling Greatly Reduces Phylogenetic Error. Systematic Biology, 2002, 51, 588-598.	5.6	834
69	Increased Taxon Sampling Is Advantageous for Phylogenetic Inference. Systematic Biology, 2002, 51, 664-671.	5.6	394
70	Phylogenetic relationships of the dwarf boas and a comparison of Bayesian and bootstrap measures of phylogenetic support. Molecular Phylogenetics and Evolution, 2002, 25, 361-371.	2.7	626
71	THE IMPORTANCE OF THE ONTOGENETIC NICHE IN RESOURCE-ASSOCIATED DIVERGENCE: EVIDENCE FROM A GENERALIST GRASSHOPPER. Evolution; International Journal of Organic Evolution, 2002, 56, 731-740.	2.3	40
72	Phylogenetic Relationships and Systematic Revision of Central Texas Hemidactyliine Plethodontid Salamanders. Herpetological Monographs, 2000, 14, 1.	0.8	75

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73	Species Names in Phylogenetic Nomenclature. Systematic Biology, 1999, 48, 790-807.	5.6	130
74	Base Compositional Bias and Phylogenetic Analyses: A Test of the â€œFlying DNAâ€•Hypothesis. Molecular Phylogenetics and Evolution, 1998, 10, 408-416.	2.7	44
75	Phylogeny of Frogs of the Physalaemus Pustulosus Species Group, With an Examination of Data Incongruence. Systematic Biology, 1998, 47, 311-335.	5.6	113
76	Taxonomic Sampling, Phylogenetic Accuracy, and Investigator Bias. Systematic Biology, 1998, 47, 3-8.	5.6	482
77	Are big trees indeed easy? Reply from D.M. Hillis. Trends in Ecology and Evolution, 1997, 12, 358.	8.7	3
78	Rhodopsin evolution in the dark. Nature, 1997, 387, 667-668.	27.8	63
79	Molecular Systematics. Copeia, 1996, 1996, 1058.	1.3	294
80	Life in the hot zone around Chernobyl. Nature, 1996, 380, 665-666.	27.8	13
81	Inferring complex phytogenies. Nature, 1996, 383, 130-131.	27.8	509
82	A Likelihood-Ratio Test of Monophyly. Systematic Biology, 1996, 45, 546-558.	5.6	137
83	Approaches for Assessing Phylogenetic Accuracy. Systematic Biology, 1995, 44, 3.	5.6	26
84	Approaches for Assessing Phylogenetic Accuracy. Systematic Biology, 1995, 44, 3-16.	5.6	218
85	HOMOLOGY IN MOLECULAR BIOLOGY. , 1994, , 339-368.		38
86	Hobgoblin of phylogenetics?. Nature, 1994, 369, 363-364.	27.8	168
87	Support for dental HIV transmission. Nature, 1994, 369, 24-25.	27.8	63
88	Evolution in the Fast Lane. Science, 1994, 264, 1008-1010.	12.6	0
89	HOMOLOGY IN MOLECULAR BIOLOGY. , 1994, , 339-368.		5
90	An Empirical Test of Bootstrapping as a Method for Assessing Confidence in Phylogenetic Analysis. Systematic Biology, 1993, 42, 182.	5.6	2,316

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91	Success of Phylogenetic Methods in the Four-Taxon Case. Systematic Biology, 1993, 42, 247.	5.6	111
92	A Molecular Test of Bat Relationships: Monophyly or Diphyly?. Systematic Biology, 1992, 41, 222.	5.6	9
93	Rates of evolution and fossils in phylogenetic analysis: a computer simulation approach. The Paleontological Society Special Publications, 1992, 6, 140-140.	0.0	0
94	Ribosomal DNA: Molecular Evolution and Phylogenetic Inference. Quarterly Review of Biology, 1991, 66, 411-453.	0.1	2,150
95	The relationships of the coelacanth Latimeria chalumnae: evidence from sequences of vertebrate 28S ribosomal RNA genes. Environmental Biology of Fishes, 1991, 32, 119-130.	1.0	17
96	Evolutionary changes of heterogametic sex in the phylogenetic history of amphibians. Journal of Evolutionary Biology, 1990, 3, 49-64.	1.7	152
97	Structural and evolutionary comparisons of four alleles of the mouse immunoglobulin kappa chain gene,Igk-VSer. Immunogenetics, 1989, 29, 249-257.	2.4	8
98	Structural and evolutionary comparisons of four alleles of the mouse Igk-J locus which encodes immunoglobulin kappa light chain joining (J K) segments. Immunogenetics, 1989, 29, 389-396.	2.4	6
99	Ribosomal DNA: Intraspecific Polymorphism, Concerted Evolution, and Phylogeny Reconstruction. Systematic Zoology, 1988, 37, 63.	1.6	77
100	Phylogeny and Taxonomy of the Rana palmipes Group (Salientia: Ranidae). Herpetological Monographs, 1988, 2, 1.	0.8	35
101	EVOLUTION OF RIBOSOMAL DNA: FIFTY MILLION YEARS OF RECORDED HISTORY IN THE FROG GENUS RANA. Evolution; International Journal of Organic Evolution, 1986, 40, 1275-1288.	2.3	210
102	Out of Africa â€" through a genetic bottleneck. Nature, 1986, 323, 208-208.	27.8	9
103	Evolution of Ribosomal DNA: Fifty Million Years of Recorded History in the Frog Genus rana. Evolution; International Journal of Organic Evolution, 1986, 40, 1275.	2.3	68
104	The Anolis Dewlap: Interspecific Variability and Morphological Associations with Habitat. Copeia, 1984, 1984, 315.	1.3	48
105	A New Species of Frog of the Rana tarahumarae Group from Southwestern Mexico. Copeia, 1984, 1984, 398.	1.3	8
106	Phylogeny and Biogeography of the Rana pipiens Complex: A Biochemical Evaluation. Systematic Zoology, 1983, 32, 132.	1.6	56
107	Morphological and Electrophoretic Evidence for Two Species of Corbicula (Bivalvia: Corbiculidae) in North America. American Midland Naturalist, 1982, 108, 74.	0.4	52
108	Premating Isolating Mechanisms among Three Species of the Rana pipiens Complex in Texas and Southern Oklahoma. Copeia, 1981, 1981, 312.	1.3	27

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109	Biodiversity discovery and its importance to conservation. , 0, , 1-34.		4