Matthew J Phillips

List of Publications by Year
in descending order

65 papers	12,013 citations	117625 34 h-index	106344 65 g-index
71 all docs	71 docs citations	71 times ranked	14338 citing authors

#	Article	IF	Citations
1	Relaxed Phylogenetics and Dating with Confidence. PLoS Biology, 2006, 4, e88.	5.6	5,566
2	Time Dependency of Molecular Rate Estimates and Systematic Overestimation of Recent Divergence Times. Molecular Biology and Evolution, 2005, 22, 1561-1568.	8.9	933
3	Accounting for Calibration Uncertainty in Phylogenetic Estimation of Evolutionary Divergence Times. Systematic Biology, 2009, 58, 367-380.	5.6	789
4	Time-dependent rates of molecular evolution. Molecular Ecology, 2011, 20, 3087-3101.	3.9	473
5	Genome-Scale Phylogeny and the Detection of Systematic Biases. Molecular Biology and Evolution, 2004, 21, 1455-1458.	8.9	412
6	Evidence for Time Dependency of Molecular Rate Estimates. Systematic Biology, 2007, 56, 515-522.	5.6	257
7	The root of the mammalian tree inferred from whole mitochondrial genomes. Molecular Phylogenetics and Evolution, 2003, 28, 171-185.	2.7	253
8	Molecular Phylogeny, Biogeography, and Habitat Preference Evolution of Marsupials. Molecular Biology and Evolution, 2014, 31, 2322-2330.	8.9	189
9	Tinamous and Moa Flock Together: Mitochondrial Genome Sequence Analysis Reveals Independent Losses of Flight among Ratites. Systematic Biology, 2010, 59, 90-107.	5.6	185
10	The Prehistory of Potyviruses: Their Initial Radiation Was during the Dawn of Agriculture. PLoS ONE, 2008, 3, e2523.	2.5	182
11	Accuracy of Rate Estimation Using Relaxed-Clock Models with a Critical Focus on the Early Metazoan Radiation. Molecular Biology and Evolution, 2005, 22, 1355-1363.	8.9	169
12	Growing up with dinosaurs: molecular dates and the mammalian radiation. Trends in Ecology and Evolution, 1999, 14, 113-118.	8.7	156
13	Geologically ancient DNA: fact or artefact?. Trends in Microbiology, 2005, 13, 212-220.	7.7	149
14	Comment on "Hexapod Origins: Monophyletic or Paraphyletic?". Science, 2003, 301, 1482d-1482.	12.6	143
15	Four New Mitochondrial Genomes and the Increased Stability of Evolutionary Trees of Mammals from Improved Taxon Sampling. Molecular Biology and Evolution, 2002, 19, 2060-2070.	8.9	138
16	Molecules, morphology, and ecology indicate a recent, amphibious ancestry for echidnas. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17089-17094.	7.1	126
17	Closing the gap between rocks and clocks using total-evidence dating. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150136.	4.0	115
18	Evolution of the extinct Sabretooths and the American cheetah-like cat. Current Biology, 2005, 15, R589-R590.	3.9	105

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19	Branch-length estimation bias misleads molecular dating for a vertebrate mitochondrial phylogeny. Gene, 2009, 441, 132-140.	2.2	91
20	Combined Mitochondrial and Nuclear DNA Sequences Resolve the Interrelations of the Major Australasian Marsupial Radiations. Systematic Biology, 2006, 55, 122-137.	5.6	88
21	Toward Resolving Deep Neoaves Phylogeny: Data, Signal Enhancement, and Priors. Molecular Biology and Evolution, 2009, 26, 313-326.	8.9	87
22	Bayesian Estimation of Substitution Rates from Ancient DNA Sequences with Low Information Content. Systematic Biology, 2011, 60, 366-375.	5.6	75
23	Prokaryote and eukaryote evolvability. BioSystems, 2003, 69, 163-185.	2.0	73
24	Dating of divergences within the Rattus genus phylogeny using whole mitochondrial genomes. Molecular Phylogenetics and Evolution, 2008, 49, 460-466.	2.7	70
25	Bird evolution: testing the metaves clade with six new mitochondrial genomes. BMC Evolutionary Biology, 2008, 8, 20.	3.2	70
26	The evolutionary history of cockatoos (Aves: Psittaciformes: Cacatuidae). Molecular Phylogenetics and Evolution, 2011, 59, 615-622.	2.7	66
27	The rise of birds and mammals: are microevolutionary processes sufficient for macroevolution?. Trends in Ecology and Evolution, 2004, 19, 516-522.	8.7	62
28	Mitochondrial genomes of a bandicoot and a brushtail possum confirm the monophyly of australidelphian marsupials. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1533-1538.	2.6	61
29	Geomolecular Dating and the Origin of Placental Mammals. Systematic Biology, 2016, 65, 546-557.	5.6	61
30	Sharing is caring? Measurement error and the issues arising from combining 3D morphometric datasets. Ecology and Evolution, 2017, 7, 7034-7046.	1.9	57
31	The Fossil Calibration Databaseâ€"A New Resource for Divergence Dating. Systematic Biology, 2015, 64, 853-859.	5.6	54
32	Total evidence analysis of the phylogenetic relationships of bandicoots and bilbies (Marsupialia:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 224-256.	0.5	51
33	A mixed relaxed clock model. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150132.	4.0	48
34	Avian Diversification Patterns across the K-Pg Boundary: Influence of Calibrations, Datasets, and Model Misspecification¹. Annals of the Missouri Botanical Garden, 2015, 100, 300-328.	1.3	43
35	Family-level relationships among the Australasian marsupial â€œherbivoresâ€•(Diprotodontia: Koala,) Tj ETQq1 1 0.784314 rgBT /Ove	2.7	41
36	Thorough assessment of DNA preservation from fossil bone and sediments excavated from a late Pleistoceneâ€"Holocene cave deposit on Kangaroo Island, South Australia. Quaternary Science Reviews, 2014, 84, 56-64.	3.0	36

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37	Comment on â€œWhole-genome analyses resolve early branches in the tree of life of modern birdsâ€. Science, 2015, 349, 1460-1460.	12.6	36
38	Inferring Kangaroo Phylogeny from Incongruent Nuclear and Mitochondrial Genes. PLoS ONE, 2013, 8, e57745.	2.5	35
39	The soft explosive model of placental mammal evolution. BMC Evolutionary Biology, 2018, 18, 104.	3.2	35
40	Low resolution scans can provide a sufficiently accurate, cost- and time-effective alternative to high resolution scans for 3D shape analyses. PeerJ, 2018, 6, e5032.	2.0	35
41	Evolutionary relationships and divergence times among the native rats of Australia. BMC Evolutionary Biology, 2010, 10, 375.	3.2	34
42	A description of the Mei2-like protein family; structure, phylogenetic distribution and biological context. Development Genes and Evolution, 2004, 214, 149-158.	0.9	27
43	Speciation Generates Mosaic Genomes in Kangaroos. Genome Biology and Evolution, 2018, 10, 33-44.	2.5	26
44	Australian Rodents Reveal Conserved Cranial Evolutionary Allometry across 10 Million Years of Murid Evolution. American Naturalist, 2020, 196, 755-768.	2.1	26
45	Reconstructing the Evolution of Giant Extinct Kangaroos: Comparing the Utility of DNA, Morphology, and Total Evidence. Systematic Biology, 2019, 68, 520-537.	5.6	25
46	Oldest Pathology in a Tetrapod Bone Illuminates the Origin of Terrestrial Vertebrates. PLoS ONE, 2015, 10, e0125723.	2.5	25
47	A molecular and morphometric assessment of the systematics of the Macropus complex clarifies the tempo and mode of kangaroo evolution. Zoological Journal of the Linnean Society, 2019, 186, 793-812.	2.3	23
48	A Bias in ML Estimates of Branch Lengths in the Presence of Multiple Signals. Molecular Biology and Evolution, 2008, 25, 239-242.	8.9	21
49	Resolving kangaroo phylogeny and overcoming retrotransposon ascertainment bias. Scientific Reports, 2017, 7, 16811.	3.3	18
50	The linking of plate tectonics and evolutionary divergence. Current Biology, 2013, 23, R603-R605.	3.9	14
51	Ancient DNA reveals complexity in the evolutionary history and taxonomy of the endangered Australian brush-tailed bettongs (Bettongia: Marsupialia: Macropodidae: Potoroinae). Biodiversity and Conservation, 2016, 25, 2907-2927.	2.6	14
52	Skull shape of a widely distributed, endangered marsupial reveals little evidence of local adaptation between fragmented populations. Ecology and Evolution, 2020, 10, 9707-9720.	1.9	13
53	Time and space in biogeography: response to Parenti & Ebach (2013). Journal of Biogeography, 2013, 40, 2204-2206.	3.0	12
54	Resolving the evolution of the mammalian middle ear using Bayesian inference. Frontiers in Zoology, 2016, 13, 39.	2.0	12

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55	Systematics, biogeography and ancestral state of the Australian marsupial genus Antechinus (Dasyuromorphia: Dasyuridae). Zoological Journal of the Linnean Society, 2019, 186, 553-568.	2.3	12
56	Conflict Resolution for Mesozoic Mammals: Reconciling Phylogenetic Incongruence Among Anatomical Regions. Frontiers in Genetics, 2020, 11, 0651.	2.3	11
57	Using 3D geometric morphometrics to aid taxonomic and ecological understanding of a recent speciation event within a small Australian marsupial (Antechinus: Dasyuridae). Zoological Journal of the Linnean Society, 2022, 196, 963-978.	2.3	10
58	Identifying Complex DNA Contamination in Pig-Footed Bandicoots Helps to Clarify an Anomalous Ecological Transition. Diversity, 2022, 14, 352.	1.7	10
59	Global Evolutionary History and Dynamics of Dengue Viruses Inferred from Whole Genome Sequences. Viruses, 2022, 14, 703.	3.3	9
60	Evidence for a Large Expansion and Subfunctionalization of Globin Genes in Sea Anemones. Genome Biology and Evolution, 2018, 10, 1892-1901.	2.5	8
61	Enhancing mitogenomic phylogeny and resolving the relationships of extinct megafaunal placental mammals. Molecular Phylogenetics and Evolution, 2021, 158, 107082.	2.7	7
62	Mass survivals. Nature, 2007, 446, 501-502.	27.8	5
63	The value of updating GenBank accessions for supermatrix phylogeny: The case of the New Guinean marsupial carnivore genus Myoictis. Molecular Phylogenetics and Evolution, 2022, 166, 107328.	2.7	5
64	The complete mitochondrial genome of the eastern grey kangaroo (Macropus giganteus). Mitochondrial DNA, 2016, 27, 1366-1367.	0.6	4
65	Telling the Evolutionary Time: Molecular Clocks and the Fossil Record.â€”Philip C. J. Donoghue and M. Paul Smith, editors.. Systematic Biology, 2005, 54, 174-176.	5.6	0