# Frank T Burbrink

List of Publications by Year
in descending order



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|---|---|---|---|
| 92 papers | 6,036 citations | 71102 41 h-index | 76900 74 g-index |
| 97 all docs | 97 docs citations | 97 times ranked | 6027 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Coalescent-based species delimitation in an integrative taxonomy. Trends in Ecology and Evolution, 2012, 27, 480-488. | 8.7 | 716 |
| 2 | MITOCHONDRIAL DNA PHYLOGEOGRAPHY OF THE POLYTYPIC NORTH AMERICAN RAT SNAKE (ELAPHE) Tj ETQq0 0 0 rgBT /Overlock 10 Evolution, 2000, 54, 2107-2118. | 2.3 | 472 |
| 3 | Phylogeny and tempo of diversification in the superradiation of spiny-rayed fishes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12738-12743. | 7.1 | 408 |
| 4 | The phylogeny of advanced snakes (Colubroidea), with discovery of a new subfamily and comparison of support methods for likelihood trees. Molecular Phylogenetics and Evolution, 2011, 58, 329-342. | 2.7 | 265 |
| 5 | Early origin of viviparity and multiple reversions to oviparity in squamate reptiles. Ecology Letters, 2014, 17, 13-21. | 6.4 | 256 |
| 6 | Phylogenetic niche conservatism and the evolutionary basis of ecological speciation. Biological Reviews, 2015, 90, 1248-1262. | 10.4 | 233 |
| 7 | Interrogating Genomic-Scale Data for Squamata (Lizards, Snakes, and Amphisbaenians) Shows no Support for Key Traditional Morphological Relationships. Systematic Biology, 2020, 69, 502-520. | 5.6 | 191 |
| 8 | Lineage diversification in a widespread species: roles for niche divergence and conservatism in the common kingsnake, Lampropeltis getula. Molecular Ecology, 2009, 18, 3443-3457. | 3.9 | 122 |
| 9 | EXTINCTION, ECOLOGICAL OPPORTUNITY, AND THE ORIGINS OF GLOBAL SNAKE DIVERSITY. Evolution; International Journal of Organic Evolution, 2012, 66, 163-178. | 2.3 | 122 |
| 10 | Coalescent Species Delimitation in Milksnakes (Genus Lampropeltis) and Impacts on Phylogenetic Comparative Analyses. Systematic Biology, 2014, 63, 231-250. | 5.6 | 109 |
| 11 | How and when did Old World ratsnakes disperse into the New World?. Molecular Phylogenetics and Evolution, 2007, 43, 173-189. | 2.7 | 104 |
| 12 | Phylogenetic estimates of speciation and extinction rates for testing ecological and evolutionary hypotheses. Trends in Ecology and Evolution, 2013, 28, 729-736. | 8.7 | 101 |
| 13 | HOW DOES ECOLOGICAL OPPORTUNITY INFLUENCE RATES OF SPECIATION, EXTINCTION, AND MORPHOLOGICAL DIVERSIFICATION IN NEW WORLD RATSNAKES (TRIBE LAMPROPELTINI)?. Evolution; International Journal of Organic Evolution, 2010, 64, 934-943. | 2.3 | 89 |
| 14 | Lineage diversification and historical demography of a sky island salamander, Plethodon ouachitae, from the Interior Highlands. Molecular Ecology, 2008, 17, 5315-5335. | 3.9 | 87 |
| 15 | Genus-level phylogeny of snakes reveals the origins of species richness in Sri Lanka. Molecular Phylogenetics and Evolution, 2013, 66, 969-978. | 2.7 | 86 |
| 16 | Effectiveness of phylogenomic data and coalescent species-tree methods for resolving difficult nodes in the phylogeny of advanced snakes (Serpentes: Caenophidia). Molecular Phylogenetics and Evolution, 2014, 81, 221-231. | 2.7 | 86 |
| 17 | Phylogeographic and demographic effects of Pleistocene climatic fluctuations in a montane salamander, Plethodon fourchensis. Molecular Ecology, 2009, 18, 2243-2262. | 3.9 | 84 |
| 18 | Phylogeography of Diadophis punctatus: Extensive lineage diversity and repeated patterns of historical demography in a trans-continental snake. Molecular Phylogenetics and Evolution, 2008, 46, 1049-1070. | 2.7 | 83 |

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|---|---|---|---|
| 19 | Estimating synchronous demographic changes across populations using <scp>hABC</scp> and its application for a herpetological community from northeastern Brazil. Molecular Ecology, 2017, 26, 4756-4771. | 3.9 | 79 |
| 20 | Out of Asia: Natricine snakes support the Cenozoic Beringian Dispersal Hypothesis. Molecular Phylogenetics and Evolution, 2012, 63, 825-833. | 2.7 | 78 |
| 21 | A hybrid phylogeneticâ€“phylogenomic approach for species tree estimation in African Agama lizards with applications to biogeography, character evolution, and diversification. Molecular Phylogenetics and Evolution, 2014, 79, 215-230. | 2.7 | 77 |
| 22 | Can the tropical conservatism hypothesis explain temperate species richness patterns? An inverse latitudinal biodiversity gradient in the New World snake tribe Lampropeltini. Global Ecology and Biogeography, 2009, 18, 406-415. | 5.8 | 75 |
| 23 | Phylogeography across a continent: The evolutionary and demographic history of the North American racer (Serpentes: Colubridae: Coluber constrictor). Molecular Phylogenetics and Evolution, 2008, 47, 274-288. | 2.7 | 70 |
| 24 | Systematics of the Eastern Ratsnake Complex (Elaphe obsoleta). Herpetological Monographs, 2001, 15, 1. | 0.8 | 68 |
| 25 | Neogene diversification and taxonomic stability in the snake tribe Lampropeltini (Serpentes:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.7 | 67 |
| 26 | Evidence for determinism in species diversification and contingency in phenotypic evolution during adaptive radiation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4817-4826. | 2.6 | 67 |
| 27 | Hard and soft allopatry: physically and ecologically mediated modes of geographic speciation. Journal of Biogeography, 2010, 37, 2005-2015. | 3.0 | 64 |
| 28 | Demographic and phylogeographic histories of two venomous North American snakes of the genus Agkistrodon. Molecular Phylogenetics and Evolution, 2008, 48, 543-553. | 2.7 | 61 |
| 29 | The Biogeography of Deep Time Phylogenetic Reticulation. Systematic Biology, 2018, 67, 743-755. | 5.6 | 61 |
| 30 | Asynchronous demographic responses to Pleistocene climate change in Eastern Nearctic vertebrates. Ecology Letters, 2016, 19, 1457-1467. | 6.4 | 59 |
| 31 | Phylogeographic analysis of the cornsnake (Elaphe guttata) complex as inferred from maximum likelihood and Bayesian analyses. Molecular Phylogenetics and Evolution, 2002, 25, 465-476. | 2.7 | 58 |
| 32 | Claims of Potential Expansion throughout the U.S. by Invasive Python Species Are Contradicted by Ecological Niche Models. PLoS ONE, 2008, 3, e2931. | 2.5 | 58 |
| 33 | The Taming of the Skew: Estimating Proper Confidence Intervals for Divergence Dates. Systematic Biology, 2008, 57, 317-328. | 5.6 | 56 |
| 34 | Comparing species tree estimation with large anchored phylogenomic and small Sanger-sequenced molecular datasets: an empirical study on Malagasy pseudoxyrhophiine snakes. BMC Evolutionary Biology, 2015, 15, 221. | 3.2 | 54 |
| 35 | A riparian zone in southern Illinois as a potential dispersal corridor for reptiles and amphibians. Biological Conservation, 1998, 86, 107-115. | 4.1 | 52 |
| 36 | Inferring the phylogenetic position of Boa constrictor among the Boinae. Molecular Phylogenetics and Evolution, 2005, 34, 167-180. | 2.7 | 52 |

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|---|---|---|---|
| 37 | Systematics of the Common Kingsnake (Lampropeltis getula; Serpentes: Colubridae) and the burden of heritage in taxonomy. Zootaxa, 2009, 2241, 22-32. | 0.5 | 52 |
| 38 | Speciation at the Mogollon Rim in the Arizona Mountain Kingsnake (Lampropeltis pyromelana). Molecular Phylogenetics and Evolution, 2011, 60, 445-454. | 2.7 | 51 |
| 39 | A molecular approach to discerning the phylogenetic placement of the enigmatic snake Xenophidion schaeferi among the Alethinophidia. Journal of Zoology, 2004, 263, 285-294. | 1.7 | 50 |
| 40 | Environmental heterogeneity and not vicariant biogeographic barriers generate communityâ€wide population structure in desertâ€adapted snakes. Molecular Ecology, 2019, 28, 4535-4548. | 3.9 | 49 |
| 41 | Considering gene flow when using coalescent methods to delimit lineages of North American pitvipers of the genusAgkistrodon. Zoological Journal of the Linnean Society, 2015, 173, 505-526. | 2.3 | 48 |
| 42 | Speciation with gene flow in whiptail lizards from a Neotropical xeric biome. Molecular Ecology, 2015, 24, 5957-5975. | 3.9 | 44 |
| 43 | Host susceptibility to snake fungal disease is highly dispersed across phylogenetic and functional trait space. Science Advances, 2017, 3, e1701387. | 10.3 | 42 |
| 44 | When are adaptive radiations replicated in areas? Ecological opportunity and unexceptional diversification in West Indian dipsadine snakes (Colubridae: Alsophiini). Journal of Biogeography, 2012, 39, 465-475. | 3.0 | 41 |
| 45 | A Taxonomic Revision of Boas (Serpentes: Boidae). Zootaxa, 2014, 3846, 249-60. | 0.5 | 40 |
| 46 | Asynchronous diversification of snakes in the North American warm deserts. Journal of Biogeography, 2017, 44, 461-474. | 3.0 | 40 |
| 47 | Molecular systematics and historical biogeography of tree boas (Corallus spp.). Molecular Phylogenetics and Evolution, 2013, 66, 953-959. | 2.7 | 36 |
| 48 | Using phylogenomics to understand the link between biogeographic origins and regional diversification in ratsnakes. Molecular Phylogenetics and Evolution, 2017, 111, 206-218. | 2.7 | 36 |
| 49 | THE IMPACT OF GENE-TREE/SPECIES-TREE DISCORDANCE ON DIVERSIFICATION-RATE ESTIMATION. Evolution; International Journal of Organic Evolution, 2011, 65, 1851-1861. | 2.3 | 34 |
| 50 | Phylogeographical structure within Boa constrictor imperator across the lowlands and mountains of Central America and Mexico. Journal of Biogeography, 2014, 41, 2371-2384. | 3.0 | 34 |
| 51 | Integrating natural history collections and comparative genomics to study the genetic architecture of convergent evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180248. | 4.0 | 32 |
| 52 | Biogeographic barriers, Pleistocene refugia, and climatic gradients in the southeastern Nearctic drive diversification in cornsnakes (Pantherophis guttatus complex). Molecular Ecology, 2020, 29, 797-811. | 3.9 | 32 |
| 53 | Resolving spatial complexities of hybridization in the context of the gray zone of speciation in North American ratsnakes ( Pantherophis obsoletus complex). Evolution; International Journal of Organic Evolution, 2021, 75, 260-277. | 2.3 | 32 |
| 54 | Understanding the formation of ancient intertropical disjunct distributions using Asian and Neotropical hinged-teeth snakes (Sibynophis and Scaphiodontophis: Serpentes: Colubridae). Molecular Phylogenetics and Evolution, 2013, 66, 254-261. | 2.7 | 31 |

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|---|---|---|---|
| 55 | A phylogeny of the Lampropeltis mexicana complex (Serpentes: Colubridae) based on mitochondrial DNA sequences suggests evidence for species-level polyphyly within Lampropeltis. Molecular Phylogenetics and Evolution, 2007, 43, 674-684. | 2.7 | 30 |
| 56 | Does dispersal across an aquatic geographic barrier obscure phylogeographic structure in the diamond-backed watersnake (Nerodia rhombifer)?. Molecular Phylogenetics and Evolution, 2010, 57, 552-560. | 2.7 | 28 |
| 57 | Local-scale environmental variation generates highly divergent lineages associated with stream drainages in a terrestrial salamander, Plethodon caddoensis. Molecular Phylogenetics and Evolution, 2011, 59, 399-411. | 2.7 | 28 |
| 58 | Empirical and philosophical problems with the subspecies rank. Ecology and Evolution, 2022, 12, . | 1.9 | 26 |
| 59 | Lycodon and Dinodon: One genus or two? Evidence from molecular phylogenetics and morphological comparisons. Molecular Phylogenetics and Evolution, 2013, 68, 144-149. | 2.7 | 25 |
| 60 | Ecological and evolutionary determinants of species richness and phylogenetic diversity for island snakes. Global Ecology and Biogeography, 2014, 23, 848-856. | 5.8 | 25 |
| 61 | Contemporary Philosophy and Methods for Studying Speciation and Delimiting Species. Ichthyology and Herpetology, 2021, 109, . | 0.8 | 23 |
| 62 | Both traits and phylogenetic history influence community structure in snakes over steep environmental gradients. Ecography, 2015, 38, 1036-1048. | 4.5 | 22 |
| 63 | Phylogeography of Muller's termite frog suggests the vicariant role of the Central Brazilian Plateau. Journal of Biogeography, 2018, 45, 2508-2519. | 3.0 | 22 |
| 64 | The Origins and Diversification of the Exceptionally Rich Gemsnakes (Colubroidea: Lamprophiidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 5.6 | 22 |
| 65 | Assessing species boundaries and the phylogenetic position of the rare Szechwan ratsnake, Euprepiophis perlaceus (Serpentes: Colubridae), using coalescent-based methods. Molecular Phylogenetics and Evolution, 2014, 70, 130-136. | 2.7 | 18 |
| 66 | Complex longitudinal diversification across South China and Vietnam in Stejneger's pit viper, Viridovipera stejnegeri (Schmidt, 1925) (Reptilia: Serpentes: Viperidae). Molecular Ecology, 2016, 25, 2920-2936. | 3.9 | 18 |
| 67 | Evolution and Taxonomy of Snakes. Reproductive Biology and Phylogeny Series, 2011, , 19-53. | 1.1 | 18 |
| 68 | Coalescent Species Tree Inference ofColuberandMasticophis. Copeia, 2017, 105, 640-648. | 1.3 | 17 |
| 69 | The phylogenetic position and taxonomic status of the Rainbow Tree Snake Gonyophis margaritatus (Peters, 1871) (Squamata: Colubridae)Â. Zootaxa, 2014, 3881, 532-48. | 0.5 | 16 |
| 70 | Predicting community structure in snakes on Eastern Nearctic islands using ecological neutral theory and phylogenetic methods. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151700. | 2.6 | 16 |
| 71 | Exploring Chihuahuan Desert diversification in the gray-banded kingsnake, Lampropeltis alterna (Serpentes: Colubridae). Molecular Phylogenetics and Evolution, 2019, 131, 211-218. | 2.7 | 16 |
| 72 | Quaternary climatic fluctuations influence the demographic history of two species of sky-island endemic amphibians in the Neotropics. Molecular Phylogenetics and Evolution, 2021, 160, 107113. | 2.7 | 15 |

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|---|---|---|---|
| 73 | Contrasting models of parityâ€mode evolution in squamate reptiles. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 467-472. | 1.3 | 14 |
| 74 | Independent Demographic Responses to Climate Change among Temperate and Tropical Milksnakes (Colubridae: Genus Lampropeltis). PLoS ONE, 2015, 10, e0128543. | 2.5 | 13 |
| 75 | Finding arboreal snakes in an evolutionary tree: phylogenetic placement and systematic revision of the Neotropical birdsnakes. Journal of Zoological Systematics and Evolutionary Research, 2014, 52, 257-264. | 1.4 | 12 |
| 76 | 2. Molecular Phylogeography of Snakes. , 2009, , 38-77. | | 12 |
| 77 | The Cat-eyed Snakes of Madagascar: Phylogeny and Description of a New Species ofMadagascarophis(Serpentes: Lamprophiidae) from the Tsingy of Ankarana. Copeia, 2016, 104, 712-721. | 1.3 | 11 |
| 78 | Ecological Divergence and the History of Gene Flow in the Nearctic Milksnakes (<b>Lampropeltis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 3.6 | 11 |
| 79 | Unrecognized species diversity and new insights into colour pattern polymorphism within the widespread Malagasy snakeMimophis(Serpentes: Lamprophiidae). Systematics and Biodiversity, 2018, 16, 229-244. | 1.2 | 10 |
| 80 | Hibernation in bats (Mammalia: Chiroptera) did not evolve through positive selection of leptin. Ecology and Evolution, 2018, 8, 12576-12596. | 1.9 | 10 |
| 81 | Phylogenetic relationships and biogeographic range evolution in cat-eyed snakes,Boiga(Serpentes: Colubridae). Zoological Journal of the Linnean Society, 2021, 192, 169-184. | 2.3 | 10 |
| 82 | Body size distributions at community, regional or taxonomic scales do not predict the direction of trait-driven diversification in snakes in the United States. Global Ecology and Biogeography, 2014, 23, 490-503. | 5.8 | 8 |
| 83 | Historical versus contemporary migration in fragmented populations. Molecular Ecology, 2010, 19, 5321-5323. | 3.9 | 7 |
| 84 | Femaleâ€biased gape and bodyâ€size dimorphism in the New World watersnakes (tribe: Thamnophiini) oppose predictions from Rensch's rule. Ecology and Evolution, 2019, 9, 9624-9633. | 1.9 | 7 |
| 85 | Drivers of unique and asynchronous population dynamics in Malagasy herpetofauna. Journal of Biogeography, 2022, 49, 600-616. | 3.0 | 7 |
| 86 | Morphological Differentiation in Ouachita Mountain Endemic Salamanders. Herpetologica, 2011, 67, 355-368. | 0.4 | 6 |
| 87 | Complex genetic patterns and distribution limits mediated by native congeners of the worldwide invasive redâ€eared slider turtle. Molecular Ecology, 2022, 31, 1766-1782. | 3.9 | 4 |
| 88 | A new snake species of the genus Gonyosoma Wagler, 1828 (Serpentes: Colubridae) from Hainan Island, China. Zoological Research, 2021, 42, 487-491. | 2.1 | 3 |
| 89 | Identifying traits that enable lizard adaptation to different habitats. Journal of Biogeography, 2022, 49, 104-116. | 3.0 | 2 |
| 90 | Morphological description of a new specimen of Herpetoreas burbrinki Guo et al 2014 (Serpentes:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.5 | 1 |

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| 91 | Additional comments on the types and nomina of several North American ratsnakes (Pantherophis) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.4 | 0 |
| 92 | Uniting genetic and geographic databases to understand the relationship between latitude and population demography. Molecular Ecology Resources, 0, , . | 4.8 | 0 |