

Bryan N Danforth

List of Publications by Year in descending order

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111
papers

10,465
citations

41344

49
h-index

36028

97
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all docs

113
docs citations

113
times ranked

7797
citing authors

#	ARTICLE	IF	CITATIONS
1	A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems. <i>Ecology Letters</i> , 2013, 16, 584-599.	6.4	875
2	Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. <i>Nature Communications</i> , 2015, 6, 7414.	12.8	656
3	A simple and distinctive microbiota associated with honey bees and bumble bees. <i>Molecular Ecology</i> , 2011, 20, 619-628.	3.9	462
4	Historical changes in northeastern US bee pollinators related to shared ecological traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4656-4660.	7.1	432
5	Climate-associated phenological advances in bee pollinators and bee-pollinated plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20645-20649.	7.1	402
6	Mechanisms of spontaneous mutagenesis: An analysis of the spectrum of spontaneous mutation in the <i>Escherichia coli</i> <i>lacI</i> gene. <i>Journal of Molecular Biology</i> , 1986, 189, 273-284.	4.2	330
7	Phylogenomic Insights into the Evolution of Stinging Wasps and the Origins of Ants and Bees. <i>Current Biology</i> , 2017, 27, 1019-1025.	3.9	329
8	How do insect nuclear and mitochondrial gene substitution patterns differ? Insights from Bayesian analyses of combined datasets. <i>Molecular Phylogenetics and Evolution</i> , 2004, 30, 686-702.	2.7	314
9	A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes. <i>Global Change Biology</i> , 2017, 23, 4946-4957.	9.5	259
10	The history of early bee diversification based on five genes plus morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15118-15123.	7.1	208
11	The Impact of Molecular Data on Our Understanding of Bee Phylogeny and Evolution. <i>Annual Review of Entomology</i> , 2013, 58, 57-78.	11.8	200
12	Changing Paradigms in Insect Social Evolution: Insights from Halictine and Allostapine Bees. <i>Annual Review of Entomology</i> , 2007, 52, 127-150.	11.8	198
13	Bees diversified in the age of eudicots. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122686.	2.6	187
14	Biodiversity ensures plant-pollinator phenological synchrony against climate change. <i>Ecology Letters</i> , 2013, 16, 1331-1338.	6.4	184
15	Agriculturally dominated landscapes reduce bee phylogenetic diversity and pollination services. <i>Science</i> , 2019, 363, 282-284.	12.6	183
16	Comprehensive phylogeny of apid bees reveals the evolutionary origins and antiquity of cleptoparasitism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16207-16211.	7.1	164
17	The Antiquity and Evolutionary History of Social Behavior in Bees. <i>PLoS ONE</i> , 2011, 6, e21086.	2.5	161
18	Secondarily solitary: the evolutionary loss of social behavior. <i>Trends in Ecology and Evolution</i> , 1997, 12, 468-474.	8.7	159

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19	Evolution of sociality in a primitively eusocial lineage of bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 286-290.	7.1	157
20	Negative effects of pesticides on wild bee communities can be buffered by landscape context. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150299.	2.6	144
21	Phylogeny of halictine bees supports a shared origin of eusociality for <i>Halictus</i> and <i>Lasioglossum</i> (Apoidea: Anthophila: Halictidae). <i>Molecular Phylogenetics and Evolution</i> , 2012, 65, 926-939.	2.7	137
22	The bee tree of life: a supermatrix approach to apoid phylogeny and biogeography. <i>BMC Evolutionary Biology</i> , 2013, 13, 138.	3.2	134
23	Single-Copy Nuclear Genes Recover Cretaceous-Age Divergences in Bees. <i>Systematic Biology</i> , 2004, 53, 309-326.	5.6	130
24	Recent and simultaneous origins of eusociality in halictid bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1643-1649.	2.6	130
25	Combining transcriptomes and ultraconserved elements to illuminate the phylogeny of Apidae. <i>Molecular Phylogenetics and Evolution</i> , 2019, 130, 121-131.	2.7	127
26	Phylogeny of Eusocial <i>Lasioglossum</i> Reveals Multiple Losses of Eusociality within a Primitively Eusocial Clade of Bees (Hymenoptera: Halictidae). <i>Systematic Biology</i> , 2003, 52, 23-36.	5.6	123
27	Pollination services for apple are dependent on diverse wild bee communities. <i>Agriculture, Ecosystems and Environment</i> , 2016, 221, 1-7.	5.3	121
28	Rapid repeated cloning of mutant lac repressor genes. <i>Gene</i> , 1985, 39, 181-189.	2.2	119
29	Analysis of family-level relationships in bees (Hymenoptera: Apiformes) using 28S and two previously unexplored nuclear genes: CAD and RNA polymerase II. <i>Molecular Phylogenetics and Evolution</i> , 2006, 39, 358-372.	2.7	115
30	Revision and reclassification of <i>Lasioglossum</i> (<i>Evylaeus</i>), <i>L.</i> (<i>Hemihalictus</i>) and <i>L.</i> (<i>Sphecodogastra</i>) in eastern North America (Hymenoptera: Apoidea: Halictidae). <i>Zootaxa</i> , 2013, 3672, 1-117.	0.5	114
31	Phylogeny of the Bee Genus <i>Halictus</i> (Hymenoptera: Halictidae) Based on Parsimony and Likelihood Analyses of Nuclear EF-1 α Sequence Data. <i>Molecular Phylogenetics and Evolution</i> , 1999, 13, 605-618.	2.7	104
32	The morphology and behavior of dimorphic males in <i>Perdita portalis</i> (Hymenoptera : Andrenidae). <i>Behavioral Ecology and Sociobiology</i> , 1991, 29, 235-247.	1.4	99
33	Biogeography and diversification of colletid bees (Hymenoptera: Colletidae): emerging patterns from the southern end of the world. <i>Journal of Biogeography</i> , 2012, 39, 526-544.	3.0	95
34	A Fossil Bee from Early Cretaceous Burmese Amber. <i>Science</i> , 2006, 314, 614-614.	12.6	94
35	Crop domestication facilitated rapid geographical expansion of a specialist pollinator, the squash bee <i>Peponapis pruinosa</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160443.	2.6	94
36	Why do leafcutter bees cut leaves? New insights into the early evolution of bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3593-3600.	2.6	93

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37	Phylogeny of the bee genus <i>Lasioglossum</i> (Hymenoptera: Halictidae) based on mitochondrial COI sequence data. <i>Systematic Entomology</i> , 1999, 24, 377-393.	3.9	80
38	PHYLOGEOGRAPHY OF THE SOCIALLY POLYMORPHIC SWEAT BEE <i>HALICTUS RUBICUNDUS</i> (HYMENOPTERA: Tj ETQ, 0 0 0 rgBT /Overl	2.3	76
39	Evolution and biogeography of native Hawaiian <i>Hylaeus</i> bees (Hymenoptera: Colletidae). <i>Cladistics</i> , 2006, 22, 393-411.	3.3	76
40	Provisioning behavior and the estimation of investment ratios in a solitary bee, <i>Calliopsis</i> (<i>Hypomacrotera</i>) <i>persimilis</i> (Cockerell) (Hymenoptera: Andrenidae). <i>Behavioral Ecology and Sociobiology</i> , 1990, 27, 159.	1.4	70
41	Phylogeny and biogeography of bees of the tribe <i>Osmiini</i> (Hymenoptera: Megachilidae). <i>Molecular Phylogenetics and Evolution</i> , 2008, 49, 185-197.	2.7	70
42	Phylogeny of colletid bees (Hymenoptera: Colletidae) inferred from four nuclear genes. <i>Molecular Phylogenetics and Evolution</i> , 2009, 50, 290-309.	2.7	70
43	Identifying the sister group to the bees: a molecular phylogeny of <i>Aculeata</i> with an emphasis on the superfamily <i>Apoidea</i> . <i>Zoologica Scripta</i> , 2012, 41, 527-535.	1.7	63
44	Climate, physiological tolerance and sex-biased dispersal shape genetic structure of Neotropical orchid bees. <i>Molecular Ecology</i> , 2014, 23, 1874-1890.	3.9	62
45	Phylogeny of the bee family <i>Megachilidae</i> (Hymenoptera: Apoidea) based on adult morphology. <i>Systematic Entomology</i> , 2012, 37, 261-286.	3.9	59
46	The challenge of accurately documenting bee species richness in agroecosystems: bee diversity in eastern apple orchards. <i>Ecology and Evolution</i> , 2015, 5, 3531-3540.	1.9	58
47	Episodes in insect evolution. <i>Integrative and Comparative Biology</i> , 2009, 49, 590-606.	2.0	57
48	Per-visit pollinator performance and regional importance of wild <i>Bombus</i> and <i>Andrena</i> (<i>Melandrena</i>) compared to the managed honey bee in New York apple orchards. <i>Apidologie</i> , 2016, 47, 145-160.	2.0	56
49	Phylogeny of the bee family <i>Melittidae</i> (Hymenoptera: Anthophila) based on combined molecular and morphological data. <i>Systematic Entomology</i> , 2009, 34, 574-597.	3.9	55
50	Phylogeny, new generic-level classification, and historical biogeography of the <i>Eucera</i> complex (Hymenoptera: Apidae). <i>Molecular Phylogenetics and Evolution</i> , 2018, 119, 81-92.	2.7	55
51	(More than) Hitchhikers through the network: the shared microbiome of bees and flowers. <i>Current Opinion in Insect Science</i> , 2021, 44, 8-15.	4.4	55
52	The evolution of social behavior in the augochlorine sweat bees (Hymenoptera: Halictidae) based on a phylogenetic analysis of the genera. , 0, , 270-292.		54
53	Towards a U.S. national program for monitoring native bees. <i>Biological Conservation</i> , 2020, 252, 108821.	4.1	54
54	Determining Parasitoid Species Composition in a Host Population: A Molecular Approach. <i>Annals of the Entomological Society of America</i> , 2000, 93, 640-647.	2.5	52

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55	How do insect nuclear ribosomal genes compare to protein-coding genes in phylogenetic utility and nucleotide substitution patterns?. <i>Systematic Entomology</i> , 2005, 30, 549-562.	3.9	51
56	On the universality of targeted enrichment baits for phylogenomic research. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1453-1460.	5.2	51
57	The evolution of hymenopteran wings: the importance of size. <i>Journal of Zoology</i> , 1989, 218, 247-276.	1.7	50
58	Phylogenetic Utility of the Major Opsin in Bees (Hymenoptera: Apoidea): A Reassessment. <i>Molecular Phylogenetics and Evolution</i> , 2001, 19, 76-93.	2.7	50
59	The impact of GC bias on phylogenetic accuracy using targeted enrichment phylogenomic data. <i>Molecular Phylogenetics and Evolution</i> , 2017, 111, 149-157.	2.7	50
60	Phylogeny of Halictidae with an emphasis on endemic African Halictinae. <i>Apidologie</i> , 2008, 39, 86-101.	2.0	48
61	Omnivory in Bees: Elevated Trophic Positions among All Major Bee Families. <i>American Naturalist</i> , 2019, 194, 414-421.	2.1	47
62	Molecular Phylogenetics and Evolution of Maternal Care in Membracine Treehoppers. <i>Systematic Biology</i> , 2004, 53, 400-421.	5.6	44
63	Nest Suitability, Fine-Scale Population Structure and Male-Mediated Dispersal of a Solitary Ground Nesting Bee in an Urban Landscape. <i>PLoS ONE</i> , 2015, 10, e0125719.	2.5	44
64	Bees in the trees: Diverse spring fauna in temperate forest edge canopies. <i>Forest Ecology and Management</i> , 2021, 482, 118903.	3.2	43
65	Wild insect diversity increases inter-annual stability in global crop pollinator communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210212.	2.6	43
66	Mitochondrial Dna Differentiation between Two Cryptic Halictus (Hymenoptera: Halictidae) Species. <i>Annals of the Entomological Society of America</i> , 1998, 91, 387-391.	2.5	40
67	Australian Lasioglossum + Homalictus Form a Monophyletic Group: Resolving the "Australian Enigma". <i>Systematic Biology</i> , 2001, 50, 268-283.	5.6	39
68	Pollen defenses negatively impact foraging and fitness in a generalist bee (<i>Bombus impatiens</i> : Apidae). <i>Scientific Reports</i> , 2020, 10, 3112.	3.3	39
69	Bees. <i>Current Biology</i> , 2007, 17, R156-R161.	3.9	38
70	Introduction of Non-Native Pollinators Can Lead to Trans-Continental Movement of Bee-Associated Fungi. <i>PLoS ONE</i> , 2015, 10, e0130560.	2.5	38
71	Flower handling behavior and abundance determine the relative contribution of pollinators to seed set in apple orchards. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 102-108.	5.3	38
72	Viral transmission in honey bees and native bees, supported by a global black queen cell virus phylogeny. <i>Environmental Microbiology</i> , 2019, 21, 972-983.	3.8	38

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73	Biology of <i>Calliopsis pugionis</i> (Hymenoptera: Andrenidae): Nesting, Foraging, and Investment Sex Ratio. <i>Annals of the Entomological Society of America</i> , 1993, 86, 822-832.	2.5	37
74	ORIGINS, EVOLUTION, AND DIVERSIFICATION OF CLEPTOPARASITIC LINEAGES IN LONG-TONGUED BEES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, n/a-n/a.	2.3	34
75	Phylogenetic systematics and a revised generic classification of anthidiine bees (Hymenoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.7	34
76	Male dimorphism in <i>Perdita portalis</i> (Hymenoptera, Andrenidae) has arisen from preexisting allometric patterns. <i>Insectes Sociaux</i> , 1999, 46, 18-28.	1.2	33
77	Taxonomic affinity of halictid bee fossils (Hymenoptera: Anthophila) based on geometric morphometrics analyses of wing shape. <i>Journal of Systematic Palaeontology</i> , 2012, 10, 755-764.	1.5	33
78	Phylogeny, biogeography and diversification of the mining bee family Andrenidae. <i>Systematic Entomology</i> , 2022, 47, 283-302.	3.9	33
79	Wing Folding in the Hymenoptera. <i>Annals of the Entomological Society of America</i> , 1988, 81, 342-349.	2.5	32
80	Male Polymorphism and Polyethism in <i>Perdita texana</i> (Hymenoptera: Andrenidae). <i>Annals of the Entomological Society of America</i> , 1992, 85, 616-626.	2.5	32
81	Apple grower pollination practices and perceptions of alternative pollinators in New York and Pennsylvania. <i>Renewable Agriculture and Food Systems</i> , 2020, 35, 1-14.	1.8	32
82	Morphology, Classification, and Antiquity of <i>Melittosphex burmensis</i> (Apoidea: Melittosphecidae) and Implications for Early Bee Evolution. <i>Journal of Paleontology</i> , 2011, 85, 882-891.	0.8	31
83	Phylogenetic relationships and host-plant evolution within the basal clade of Halictidae (Hymenoptera, Apoidea). <i>Cladistics</i> , 2008, 24, 255-269.	3.3	30
84	Recent Intron Gain in Elongation Factor-1 \pm of Colletid Bees (Hymenoptera: Colletidae). <i>Molecular Biology and Evolution</i> , 2004, 21, 691-696.	8.9	28
85	Insights into Bee Evolution: A Tribute to Charles D. Michener. <i>Apidologie</i> , 2008, 39, 1-2.	2.0	28
86	The diversification of neopasiphaeine bees during the Cenozoic (Hymenoptera: Colletidae). <i>Zoologica Scripta</i> , 2019, 48, 226-242.	1.7	27
87	Gene Tree Estimation Error with Ultraconserved Elements: An Empirical Study on <i>Pseudapis</i> Bees. <i>Systematic Biology</i> , 2021, 70, 803-821.	5.6	25
88	Long-legged bees make adaptive leaps: linking adaptation to coevolution in a plant-pollinator network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171707.	2.6	22
89	Pollen preferences among the bee species visiting apple (<i>Malus pumila</i>) in New York. <i>Apidologie</i> , 2017, 48, 806-820.	2.0	22
90	Low nuclear DNA variation supports a recent origin of Hawaiian <i>Hylaeus</i> bees (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	2.7	21

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91	Pollivory and the diversification dynamics of bees. <i>Biology Letters</i> , 2018, 14, 20180530.	2.3	21
92	Sources and frequency of brood loss in solitary bees. <i>Apidologie</i> , 2019, 50, 515-525.	2.0	20
93	Rooting phylogenies using gene duplications: An empirical example from the bees (Apoidea). <i>Molecular Phylogenetics and Evolution</i> , 2011, 60, 295-304.	2.7	19
94	Dynamics of a Host-Cleptoparasite Relationship: <i>Holcopasites ruthae</i> as a Parasite of <i>Calliopsis pugionis</i> (Hymenoptera: Anthophoridae, Andrenidae). <i>Annals of the Entomological Society of America</i> , 1993, 86, 833-840.	2.5	16
95	NESTMATE RELATEDNESS IN A COMMUNAL BEE, <i>PERDITA TEXANA</i> (HYMENOPTERA: ANDRENIDAE), BASED ON DNA FINGERPRINTING. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 276-284.	2.3	16
96	Phylogeny of the Xeromelissinae (Hymenoptera: Colletidae) Based upon Morphology and Molecules. <i>Apidologie</i> , 2008, 39, 75-85.	2.0	11
97	Phylogenetic relationships and the evolution of host preferences in the largest clade of brood parasitic bees (Apidae: Nomadinae). <i>Molecular Phylogenetics and Evolution</i> , 2022, 166, 107326.	2.7	11
98	Discovery and characterization of microsatellites for the solitary bee <i>Colletes inaequalis</i> using Sanger and 454 pyrosequencing. <i>Apidologie</i> , 2013, 44, 163-172.	2.0	10
99	Playing with extremes: Origins and evolution of exaggerated female forelegs in South African <i>Rediviva</i> bees. <i>Molecular Phylogenetics and Evolution</i> , 2017, 115, 95-105.	2.7	10
100	PHYLOGEOGRAPHY OF THE SOCIALLY POLYMORPHIC SWEAT BEE <i>HALICTUS RUBICUNDUS</i> (HYMENOPTERA: Tj ETQq0 0 0 rgBT /Overl	2.3	9
101	Phylogenomic and Morphological Reevaluation of the Bee Tribes Biastini, Neolarrini, and Townsendiellini (Hymenoptera: Apidae) With Description of Three New Species of <i>Schwarzia</i> . <i>Insect Systematics and Diversity</i> , 2020, 4, .	1.7	9
102	Exosymbiotic microbes within fermented pollen provisions are as important for the development of solitary bees as the pollen itself. <i>Ecology and Evolution</i> , 2022, 12, e8788.	1.9	8
103	Social Insects: Are Ants Just Wingless Bees?. <i>Current Biology</i> , 2013, 23, R1011-R1012.	3.9	6
104	Unexpected Polylecty in the Bee Genus <i>Meganomia</i> (Hymenoptera: Apoidea: Melittidae). <i>Journal of the Kansas Entomological Society</i> , 2010, 83, 221-230.	0.2	4
105	Two New and Highly Apomorphic Species of the <i>Lasioglossum</i> Subgenus <i>Evylaeus</i> (Hymenoptera: Tj ETQq1 1 0.784314 rgBT ₃ /Overl	2.5	3
106	Isolation and cross-species characterization of polymorphic microsatellites for the orchid bee <i>Eulaema meriana</i> (Hymenoptera: Apidae: Euglossini). <i>Conservation Genetics Resources</i> , 2011, 3, 21-23.	0.8	2
107	Genome of the bee <i>Holcopasites calliopsidis</i> a species showing the common apid trait of brood parasitism. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	2
108	A review of <i>Perdita</i> , subgenus <i>Macrotera</i> (Hymenoptera: Andrenidae). <i>Contributions in Science</i> , 1992, 436, 1-12.	0.3	1

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109	Climate-driven range shifts of a rare specialist bee, <i>Macropis nuda</i> (Melittidae), and its host plant, <i>Lysimachia ciliata</i> (Primulaceae). <i>Global Ecology and Conservation</i> , 2022, 37, e02180.	2.1	1
110	Reply from W.T. Wcislo and B.N. Danforth. <i>Trends in Ecology and Evolution</i> , 1998, 13, 199.	8.7	0
111	BEES IN THE NEW MILLENIUM. <i>BioScience</i> , 2002, 52, 848.	4.9	0