David A Baum

List of Publications by Year
in descending order

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107	6,498	66343	69250
papers	citations	42 h-index	77 g-index

128	128	128	5095
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bayesian Estimation of Concordance among Gene Trees. Molecular Biology and Evolution, 2006, 24, 412-426.	8.9	420
2	Phylogeny of the core Malvales: evidence from ndh F sequence data. American Journal of Botany, 1999, 86, 1474-1486.	1.7	297
3	The Tree-Thinking Challenge. Science, 2005, 310, 979-980.	12.6	291
4	Biogeography and Floral Evolution of Baobabs Adansonia, Bombacaceae as Inferred From Multiple Data Sets. Systematic Biology, 1998, 47, 181-207.	5.6	276
5	Adaptation Reviewed: A Phylogenetic Methodology for Studying Character Macroevolution. Systematic Zoology, 1991, 40, 1.	1.6	244
6	A Phylogenetic Analysis of Epilobium (Onagraceae) Based on Nuclear Ribosomal DNA Sequences. Systematic Botany, 1994, 19, 363.	0.5	195
7	Choosing among Alternative "Phylogenetic" Species Concepts. Systematic Botany, 1995, 20, 560.	0.5	182
8	Phylogeny and the evolution of flower symmetry in the Asteridae. Trends in Plant Science, 1998, 3, 311-317.	8.8	180
9	Phylogenetic species concepts. Trends in Ecology and Evolution, 1992, 7, 1-2.	8.7	179
10	Differential regulation of symmetry genes and the evolution of floral morphologies. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12814-12819.	7.1	163
11	EARLY TERTIARY OUT-OF-INDIA DISPERSAL OF CRYPTERONIACEAE: EVIDENCE FROM PHYLOGENY AND MOLECULAR DATING. Evolution; International Journal of Organic Evolution, 2002, 56, 1931-1942.	2.3	159
12	Concordance trees, concordance factors, and the exploration of reticulate genealogy. Taxon, 2007, 56, 417-426.	0.7	157
13	THE ROLE OF POLLINATOR SHIFTS IN THE FLORAL DIVERSIFICATION OFIOCHROMA(SOLANACEAE). Evolution; International Journal of Organic Evolution, 2008, 62, 793-806.	2.3	142
14	Circumscription of the Malvales and relationships to other rosidae: evidence from rbcL sequence data. American Journal of Botany, 1998, 85, 876-887.	1.7	129
15	An inside-out origin for the eukaryotic cell. BMC Biology, 2014, 12, 76.	3.8	126
16	Floral Gigantism in Rafflesiaceae. Science, 2007, 315, 1812-1812.	12.6	121
17	Floral MADS box genes and homeotic gender dimorphism in Thalictrum dioicum (Ranunculaceae) - a new model for the study of dioecy. Plant Journal, 2005, 41, 755-766.	5.7	119
18	The evolution of plant development. Current Opinion in Plant Biology, 1998, 1, 79-86.	7.1	115

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19	Why Do Paralogs Persist? Molecular Evolution of CYCLOIDEA and Related Floral Symmetry Genes in Antirrhineae (Veronicaceae). Molecular Biology and Evolution, 2003, 20, 591-600.	8.9	109
20	The Comparative Pollination and Floral Biology of Baobabs (Adansonia- Bombacaceae). Annals of the Missouri Botanical Garden, 1995, 82, 322.	1.3	108
21	GENEALOGICAL EVIDENCE OF HOMOPLOID HYBRID SPECIATION IN AN ADAPTIVE RADIATION OF SCAEVOLA (GOODENIACEAE) IN THE HAWAIIAN ISLANDS. Evolution; International Journal of Organic Evolution, 2005, 59, 948-961.	2.3	108
22	Phylogenetic relationships of Malvatheca (Bombacoideae and Malvoideae; Malvaceae sensu lato) as inferred from plastid DNA sequences. American Journal of Botany, 2004, 91, 1863-1871.	1.7	107
23	Phylogenetics of the genus Scaevola (Goodeniaceae): implication for dispersal patterns across the Pacific Basin and colonization of the Hawaiian Islands. American Journal of Botany, 2003, 90, 915-923.	1.7	101
24	A Systematic Revision of Adansonia (Bombacaceae). Annals of the Missouri Botanical Garden, 1995, 82, 440.	1.3	99
25	Transgenic study of parallelism in plant morphological evolution. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6524-6529.	7.1	88
26	Phylogenetics of the florally diverse Andean clade Iochrominae (Solanaceae). American Journal of Botany, 2006, 93, 1140-1153.	1.7	86
27	Long-term morphological stasis maintained by a plantâ€“pollinator mutualism. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5914-5919.	7.1	83
28	Individuality and the Existence of Species Through Time. Systematic Biology, 1998, 47, 641-653.	5.6	81
29	Phylogenetic analysis of the Malvadendrina clade (Malvaceae s.l.) based on plastid DNA sequences. Organisms Diversity and Evolution, 2005, 5, 109-123.	1.6	77
30	Paraphyly in Tribe Onagreae: Insights into Phylogenetic Relationships of Onagraceae Based on Nuclear and Chloroplast Sequence Data. Systematic Botany, 2004, 29, 147-164.	0.5	74
31	Precise spatioâ€temporal regulation of the anthocyanin biosynthetic pathway leads to petal spot formation in Clarkia gracilis (Onagraceae). New Phytologist, 2013, 197, 958-969.	7.3	72
32	Evolution of GCYC, a Gesneriaceae homolog of CYCLOIDEA, within Gesnerioideae (Gesneriaceae). Molecular Phylogenetics and Evolution, 2004, 31, 765-779.	2.7	68
33	The evolution of floral gigantism. Current Opinion in Plant Biology, 2008, 11, 49-57.	7.1	64
34	Species as Ranked Taxa. Systematic Biology, 2009, 58, 74-86.	5.6	60
35	LEAFY and the evolution of rosette flowering in violet cress (Jonopsidium acaule , Brassicaceae). American Journal of Botany, 2000, 87, 634-641.	1.7	57
36	Exploring Tree-Like and Non-Tree-Like Patterns Using Genome Sequences: An Example Using the Inbreeding Plant SpeciesArabidopsis thaliana(L.) Heynh. Systematic Biology, 2015, 64, 809-823.	5.6	57

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37	EARLY TERTIARY OUT-OF-INDIA DISPERSAL OF CRYPTERONIACEAE: EVIDENCE FROM PHYLOGENY AND MOLECULAR DATING. Evolution; International Journal of Organic Evolution, 2002, 56, 1931.	2.3	56
38	Phylogenetic utility of a nuclear intron from nitrate reductase for the study of closely related plant species. Molecular Phylogenetics and Evolution, 2002, 23, 525-528.	2.7	56
39	A review of chromosome numbers in Bombacaceae with new counts for Adansonia. Taxon, 1994, 43, 11-20.	0.7	53
40	Molecular phylogeny of Solmsâ€laubachia (Brassicaceae) s.l., based on multiple nuclear and plastid DNA sequences, and its biogeographic implications. Journal of Systematics and Evolution, 2009, 47, 402-415.	3.1	53
41	Revisiting the phylogeny of Bombacoideae (Malvaceae): Novel relationships, morphologically cohesive clades, and a new tribal classification based on multilocus phylogenetic analyses. Molecular Phylogenetics and Evolution, 2016, 101, 56-74.	2.7	50
42	Whole genome duplication in coast redwood (Sequoia sempervirens) and its implications for explaining the rarity of polyploidy in conifers. New Phytologist, 2016, 211, 186-193.	7.3	49
43	Phylogenetic Analyses of Eriotheca and Related Genera (Bombacoideae, Malvaceae). Systematic Botany, 2011, 36, 690-701.	0.5	46
44	Plant development: Genetic clues to petal evolution. Current Biology, 1999, 9, R525-R527.	3.9	43
45	Phylogenetic Relationships of Theobroma and Herrania (Sterculiaceae) Based on Sequences of the Nuclear Gene Vicilin. Systematic Botany, 1999, 24, 128.	0.5	41
46	Phylogenetic relationships of the durians (Bombacaceae-Durioneae or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (/Malvaceae/Helicte Plant Systematics and Evolution, 2000, 224, 55-82.	0.9	41
47	Molecular evolution of the transcription factor LEAFY in Brassicaceae. Molecular Phylogenetics and Evolution, 2005, 37, 1-14.	2.7	41
48	Phylogenies & Tree-Thinking. American Biology Teacher, 2008, 70, 222-229.	0.2	38
49	Phylogenics & Tree-Thinking. American Biology Teacher, 2008, 70, 222-229.	0.2	36
50	Phylogeny and Biogeography of Tribe Hibisceae (Malvaceae) on Madagascar. Systematic Botany, 2008, 33, 364-374.	0.5	36
51	Response: Missing links: the genetic architecture of flower and floral diversification. Trends in Plant Science, 2002, 7, 31-34.	8.8	34
52	New Genetic and Linguistic Analyses Show Ancient Human Influence on Baobab Evolution and Distribution in Australia. PLoS ONE, 2015, 10, e0119758.	2.5	34
53	Chemical Ecosystem Selection on Mineral Surfaces Reveals Long-Term Dynamics Consistent with the Spontaneous Emergence of Mutual Catalysis. Life, 2019, 9, 80.	2.4	34
54	Reticulate Evolution Helps Explain Apparent Homoplasy in Floral Biology and Pollination in Baobabs (Adansonia; Bombacoideae; Malvaceae). Systematic Biology, 2020, 69, 462-478.	5.6	32

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55	Structure and evolution of the androecium in the Malvatheca clade (Malvaceae s.l.) and implications for Malvaceae and Malvales. Plant Systematics and Evolution, 2006, 260, 171.	0.9	31
56	Are spurred cyathia a key innovation? Molecular systematics and trait evolution in the slipper spurges (Pedilanthus clade:Euphorbia, Euphorbiaceae). American Journal of Botany, 2010, 97, 493-510.	1.7	30
57	Comparative Floral Development and Androecium Structure in Malvoideae (Malvaceae s.l.). International Journal of Plant Sciences, 2004, 165, 445-473.	1.3	29
58	A Developmental Genetic Model for the Origin of the Flower. , 0, , 1-27.		28
59	The origin and early evolution of life in chemical composition space. Journal of Theoretical Biology, 2018, 456, 295-304.	1.7	27
60	Phylogenetic relationships of North American Antirrhinum (Veronicaceae). American Journal of Botany, 2004, 91, 918-925.	1.7	26
61	Transitions between biomes are common and directional in Bombacoideae (Malvaceae). Journal of Biogeography, 2020, 47, 1310-1321.	3.0	26
62	A Malvaceae mystery: A mallow maelstrom of genome multiplications and maybe misleading methods?. Journal of Integrative Plant Biology, 2019, 61, 12-31.	8.5	25
63	Comparative Pollination Biology of Sympatric and Allopatric Andean Iochroma (Solanaceae)1. Annals of the Missouri Botanical Garden, 2008, 95, 600-617.	1.3	24
64	The Caribbean slipper spurgeEuphorbia tithymaloides: the first example of a ring species in plants. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3377-3383.	2.6	24
65	CALIBRATION OF MOLECULAR CLOCKS AND THE BIOGEOGRAPHIC HISTORY OF CRYPTERONIACEAE: A REPLY TO MOYLE. Evolution; International Journal of Organic Evolution, 2004, 58, 1874-1876.	2.3	22
66	An ecological framework for the analysis of prebiotic chemical reaction networks. Journal of Theoretical Biology, 2020, 507, 110451.	1.7	22
67	One African baobab species or two? Synonymy of Adansonia kilima and A. digitata. Taxon, 2016, 65, 1037-1049.	0.7	21
68	An Experimental Framework for Generating Evolvable Chemical Systems in the Laboratory. Origins of Life and Evolution of Biospheres, 2017, 47, 481-497.	1.9	21
69	Evolutionary divergence of LFY function in the mustards Arabidopsis thaliana and Leavenworthia crassa. Plant Molecular Biology, 2006, 62, 279-289.	3.9	20
70	Is LEAFY a useful marker gene for the flower-inflorescence boundary in the Euphorbia cyathium?. Journal of Experimental Botany, 2011, 62, 345-350.	4.8	20
71	A Phylogenetic Analysis within Tribes Gloxinieae and Gesnerieae (Gesnerioideae: Gesneriaceae). Systematic Botany, 2004, 29, 947-958.	0.5	19
72	Systematics and character evolution in Durio s. lat. (Malvaceae/Helicteroideae/Durioneae or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	1.6	17

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73	The role of two LEAFY paralogs from Idahoa scapigera (Brassicaceae) in the evolution of a derived plant architecture. Plant Journal, 2007, 51, 211-219.	5.7	17
74	Species and Phylogenetic Nomenclature. Systematic Biology, 2012, 61, 885-891.	5.6	17
75	A comparison of autogenous theories for the origin of eukaryotic cells. American Journal of Botany, 2015, 102, 1954-1965.	1.7	17
76	An exploration of LEAFY expression in independent evolutionary origins of rosette flowering in Brassicaceae. American Journal of Botany, 2008, 95, 286-293.	1.7	15
77	Sympatric Sister Species of Californian Antirrhinum and Their Transiently Specialized Pollinators. American Midland Naturalist, 2010, 164, 337-347.	0.4	14
78	The Origin of Primary Plastids: A Pas de Deux or a MÃ©nage Ã Trois?. Plant Cell, 2013, 25, 4-6.	6.6	14
79	Selection and the Origin of Cells. BioScience, 2015, 65, 678-684.	4.9	14
80	Exclusivity offers a sound yet practical species criterion for bacteria despite abundant gene flow. BMC Genomics, 2018, 19, 724.	2.8	14
81	The need for molecular genetic perspectives in evolutionary education (and vice versa). Trends in Genetics, 2009, 25, 427-429.	6.7	12
82	A New Deciduous Species of <I>Pachira</I> (Malvaceae: Bombacoideae) from a Seasonally Dry Tropical Forest in Northeastern Brazil. Systematic Botany, 2014, 39, 260-267.	0.5	12
83	rbcL and seed-plant phylogeny. Trends in Ecology and Evolution, 1994, 9, 39-41.	8.7	11
84	Isolating Nuclear Genes and Identifying Lineages withoutMonophyly: An Example of Closely Related Species from Southern Madagascar. International Journal of Plant Sciences, 2010, 171, 761-771.	1.3	10
85	Cryptic Bracts Exposed. Developmental Cell, 2004, 6, 318-319.	7.0	9
86	Structure, development and evolution of the androecium in Adansonieae (core Bombacoideae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.9	9
87	MACROEVOLUTIONARY TESTS OF POLLINATION SYNDROMES: A REPLY TO FENSTER ET AL.. Evolution; International Journal of Organic Evolution, 2009, 63, 2763-2767.	2.3	9
88	The Podostemad Puzzle: The Evolution of Unusual Morphology in the Podostemaceae. Plant Cell, 2010, 22, 2104-2104.	6.6	9
89	Possible contributions of TERMINAL FLOWER 1 to the evolution of rosette flowering in Leavenworthia (Brassicaceae). New Phytologist, 2011, 189, 616-628.	7.3	9
90	Clade-specific positive selection on a developmental gene: BRANCHLESS TRICHOME and the evolution of stellate trichomes in Physaria (Brassicaceae). Molecular Phylogenetics and Evolution, 2016, 100, 31-40.	2.7	9

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91	The merger that made us. BMC Biology, 2020, 18, 72.	3.8	9
92	The Prebiotic Kitchen: A Guide to Composing Prebiotic Soup Recipes to Test Origins of Life Hypotheses. Life, 2021, 11, 1221.	2.4	9
93	Statistical evidence for common ancestry: Application to primates. Evolution; International Journal of Organic Evolution, 2016, 70, 1354-1363.	2.3	8
94	An assessment of transgenomics as a tool for identifying genes involved in the evolutionary differentiation of closely related plant species. New Phytologist, 2012, 193, 494-503.	7.3	7
95	Lifeâ€™s Late Digital Revolution and Why It Matters for the Study of the Origins of Life. Life, 2017, 7, 34.	2.4	6
96	Developmental causation and the problem of homology. Philosophy & Theory in Biology, 2013, 5, .	0.7	6
97	GENEALOGICAL EVIDENCE OF HOMOPLOID HYBRID SPECIATION IN AN ADAPTIVE RADIATION OF SCAEVOLA (GOODENIACEAE) IN THE HAWAIIAN ISLANDS. Evolution; International Journal of Organic Evolution, 2005, 59, 948.	2.3	5
98	Evolutionary transgenomics: prospects and challenges. Frontiers in Plant Science, 2015, 6, 858.	3.6	5
99	Morphological and Cytological Evidence for Homoploid Hybridization in Iochroma (Solanaceae). MadroÃ±o, 2008, 55, 280-284.	0.4	2
100	One African baobab species or two? Synonymy of Adansonia kilima and A. digitata. Taxon, 2016, 65, 1462-1462.	0.7	2
101	Evidence for hawkmoth pollination in the chiropterophilous African baobab (<i>Adansonia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	2
102	CALIBRATION OF MOLECULAR CLOCKS AND THE BIOGEOGRAPHIC HISTORY OF CRYPTERONIACEAE: A REPLY TO MOYLE. Evolution; International Journal of Organic Evolution, 2004, 58, 1874.	2.3	1
103	Functional and Phylogenetic Analysis of the Glutathione Transferase Gene Family in Poplar. Plant Cell, 2009, 21, 3716-3716.	6.6	1
104	A Candidate Self-Propagating System Enriched by Chemical Ecosystem Selection. , 2019, , .		1
105	Genetic diversity of Malagasy baobabs: implications for conservation. Adansonia, 2022, 44, .	0.2	1
106	Developing the BETTSI: A treeâ€thinking diagnostic tool to assess individual elements of representational competence. Evolution; International Journal of Organic Evolution, 2022, 76, 708-721.	2.3	1
107	The world in a cell. New Scientist, 2015, 225, 28-29.	0.0	0