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	Genetic diversity of Malagasy baobabs: implications for conservation. Adansonia, 2022, 44, .	0.2	1
2	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
3	Evidence for hawkmoth pollination in the chiropterophilous African baobab (<i>Adansonia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	2
4	The Prebiotic Kitchen: A Guide to Composing Prebiotic Soup Recipes to Test Origins of Life Hypotheses. Life, 2021, 11, 1221.	2.4	9
5	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
6	An ecological framework for the analysis of prebiotic chemical reaction networks. Journal of Theoretical Biology, 2020, 507, 110451.	1.7	22
7	Transitions between biomes are common and directional in Bombacoideae (Malvaceae). Journal of Biogeography, 2020, 47, 1310-1321.	3.0	26
8	The merger that made us. BMC Biology, 2020, 18, 72.	3.8	9
9	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
10	A Candidate Self-Propagating System Enriched by Chemical Ecosystem Selection. , 2019, , .		1
11	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
12	Exclusivity offers a sound yet practical species criterion for bacteria despite abundant gene flow. BMC Genomics, 2018, 19, 724.	2.8	14
13	The origin and early evolution of life in chemical composition space. Journal of Theoretical Biology, 2018, 456, 295-304.	1.7	27
14	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
15	Lifeâ€™s Late Digital Revolution and Why It Matters for the Study of the Origins of Life. Life, 2017, 7, 34.	2.4	6
16	Statistical evidence for common ancestry: Application to primates. Evolution; International Journal of Organic Evolution, 2016, 70, 1354-1363.	2.3	8
17	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
18	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

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19	One African baobab species or two? Synonymy of Adansonia kilima and A. digitata. Taxon, 2016, 65, 1037-1049.	0.7	21
20	One African baobab species or two? Synonymy of Adansonia kilima and A. digitata. Taxon, 2016, 65, 1462-1462.	0.7	2
21	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
22	New Genetic and Linguistic Analyses Show Ancient Human Influence on Baobab Evolution and Distribution in Australia. PLoS ONE, 2015, 10, e0119758.	2.5	34
23	Evolutionary transgenomics: prospects and challenges. Frontiers in Plant Science, 2015, 6, 858.	3.6	5
24	A comparison of autogenous theories for the origin of eukaryotic cells. American Journal of Botany, 2015, 102, 1954-1965.	1.7	17
25	The world in a cell. New Scientist, 2015, 225, 28-29.	0.0	0
26	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
27	Selection and the Origin of Cells. BioScience, 2015, 65, 678-684.	4.9	14
28	An inside-out origin for the eukaryotic cell. BMC Biology, 2014, 12, 76.	3.8	126
29	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
30	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
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	The Origin of Primary Plastids: A Pas de Deux or a MÃ©nage Ã Trois?. Plant Cell, 2013, 25, 4-6.	6.6	14
33	Developmental causation and the problem of homology. Philosophy & Theory in Biology, 2013, 5, .	0.7	6
34	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
35	Species and Phylogenetic Nomenclature. Systematic Biology, 2012, 61, 885-891.	5.6	17
36	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

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37	Phylogenetic Analyses of Eriotheca and Related Genera (Bombacoideae, Malvaceae). Systematic Botany, 2011, 36, 690-701.	0.5	46
38	Possible contributions of TERMINAL FLOWER 1 to the evolution of rosette flowering in Leavenworthia (Brassicaceae). New Phytologist, 2011, 189, 616-628.	7.3	9
39	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
40	Sympatric Sister Species of Californian Antirrhinum and Their Transiently Specialized Pollinators. American Midland Naturalist, 2010, 164, 337-347.	0.4	14
41	The Podostemad Puzzle: The Evolution of Unusual Morphology in the Podostemaceae. Plant Cell, 2010, 22, 2104-2104.	6.6	9
42	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
43	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
44	Species as Ranked Taxa. Systematic Biology, 2009, 58, 74-86.	5.6	60
45	Functional and Phylogenetic Analysis of the Glutathione Transferase Gene Family in Poplar. Plant Cell, 2009, 21, 3716-3716.	6.6	1
46	The need for molecular genetic perspectives in evolutionary education (and vice versa). Trends in Genetics, 2009, 25, 427-429.	6.7	12
47	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
48	MACROEVOLUTIONARY TESTS OF POLLINATION SYNDROMES: A REPLY TO FENSTER ET AL.. Evolution; International Journal of Organic Evolution, 2009, 63, 2763-2767.	2.3	9
49	Structure, development and evolution of the androecium in Adansonieae (core Bombacoideae,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	9
50	THE ROLE OF POLLINATOR SHIFTS IN THE FLORAL DIVERSIFICATION OFIOCHROMA(SOLANACEAE). Evolution; International Journal of Organic Evolution, 2008, 62, 793-806.	2.3	142
51	The evolution of floral gigantism. Current Opinion in Plant Biology, 2008, 11, 49-57.	7.1	64
52	Phylogenics & Tree-Thinking. American Biology Teacher, 2008, 70, 222-229.	0.2	36
53	Phylogeny and Biogeography of Tribe Hibisceae (Malvaceae) on Madagascar. Systematic Botany, 2008, 33, 364-374.	0.5	36
54	Comparative Pollination Biology of Sympatric and Allopatric Andean Iochroma (Solanaceae)1. Annals of the Missouri Botanical Garden, 2008, 95, 600-617.	1.3	24

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55	Morphological and Cytological Evidence for Homoploid Hybridization in Iochroma (Solanaceae). MadroÃ±o, 2008, 55, 280-284.	0.4	2
56	Phylogenies & Tree-Thinking. American Biology Teacher, 2008, 70, 222-229.	0.2	38
57	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
58	Floral Gigantism in Rafflesiaceae. Science, 2007, 315, 1812-1812.	12.6	121
59	Concordance trees, concordance factors, and the exploration of reticulate genealogy. Taxon, 2007, 56, 417-426.	0.7	157
60	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
61	Phylogenetics of the florally diverse Andean clade Iochrominae (Solanaceae). American Journal of Botany, 2006, 93, 1140-1153.	1.7	86
62	Evolutionary divergence of LFY function in the mustards Arabidopsis thaliana and Leavenworthia crassa. Plant Molecular Biology, 2006, 62, 279-289.	3.9	20
63	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
64	Bayesian Estimation of Concordance among Gene Trees. Molecular Biology and Evolution, 2006, 24, 412-426.	8.9	420
65	Molecular evolution of the transcription factor LEAFY in Brassicaceae. Molecular Phylogenetics and Evolution, 2005, 37, 1-14.	2.7	41
66	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
67	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
68	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
69	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
70	The Tree-Thinking Challenge. Science, 2005, 310, 979-980.	12.6	291
71	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
72	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

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73	Phylogenetic relationships of North American Antirrhinum (Veronicaceae). American Journal of Botany, 2004, 91, 918-925.	1.7	26
74	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
75	Evolution of GCYC, a Gesneriaceae homolog of CYCLOIDEA, within Gesnerioideae (Gesneriaceae). Molecular Phylogenetics and Evolution, 2004, 31, 765-779.	2.7	68
76	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
77	A Phylogenetic Analysis within Tribes Gloxinieae and Gesnerieae (Gesnerioideae: Gesneriaceae). Systematic Botany, 2004, 29, 947-958.	0.5	19
78	Cryptic Bracts Exposed. Developmental Cell, 2004, 6, 318-319.	7.0	9
79	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
80	Comparative Floral Development and Androecium Structure in Malvoideae (Malvaceae s.l.). International Journal of Plant Sciences, 2004, 165, 445-473.	1.3	29
81	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
82	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
83	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
84	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
85	Response: Missing links: the genetic architecture of flower and floral diversification. Trends in Plant Science, 2002, 7, 31-34.	8.8	34
86	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
87	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
88	Systematics and character evolution in Durio s. lat. (Malvaceae/Helicteroideae/Durioneae or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	1.6	17
89	LEAFY and the evolution of rosette flowering in violet cress (Jonopsidium acaule , Brassicaceae). American Journal of Botany, 2000, 87, 634-641.	1.7	57
90	Phylogenetic relationships of the durians (Bombacaceae-Durioneae or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (/Malvaceae/Helicter Plant Systematics and Evolution, 2000, 224, 55-82.	0.9	41

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91	Plant development: Genetic clues to petal evolution. Current Biology, 1999, 9, R525-R527.	3.9	43
92	Phylogenetic Relationships of Theobroma and Herrania (Sterculiaceae) Based on Sequences of the Nuclear Gene Vicilin. Systematic Botany, 1999, 24, 128.	0.5	41
93	Phylogeny of the core Malvales: evidence from ndh F sequence data. American Journal of Botany, 1999, 86, 1474-1486.	1.7	297
94	The evolution of plant development. Current Opinion in Plant Biology, 1998, 1, 79-86.	7.1	115
95	Phylogeny and the evolution of flower symmetry in the Asteridae. Trends in Plant Science, 1998, 3, 311-317.	8.8	180
96	Individuality and the Existence of Species Through Time. Systematic Biology, 1998, 47, 641-653.	5.6	81
97	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
98	Biogeography and Floral Evolution of Baobabs Adansonia, Bombacaceae as Inferred From Multiple Data Sets. Systematic Biology, 1998, 47, 181-207.	5.6	276
99	A Systematic Revision of Adansonia (Bombacaceae). Annals of the Missouri Botanical Garden, 1995, 82, 440.	1.3	99
100	The Comparative Pollination and Floral Biology of Baobabs (Adansonia- Bombacaceae). Annals of the Missouri Botanical Garden, 1995, 82, 322.	1.3	108
101	Choosing among Alternative "Phylogenetic" Species Concepts. Systematic Botany, 1995, 20, 560.	0.5	182
102	A review of chromosome numbers in Bombacaceae with new counts for Adansonia. Taxon, 1994, 43, 11-20.	0.7	53
103	A Phylogenetic Analysis of Epilobium (Onagraceae) Based on Nuclear Ribosomal DNA Sequences. Systematic Botany, 1994, 19, 363.	0.5	195
104	rbcL and seed-plant phylogeny. Trends in Ecology and Evolution, 1994, 9, 39-41.	8.7	11
105	Phylogenetic species concepts. Trends in Ecology and Evolution, 1992, 7, 1-2.	8.7	179
106	Adaptation Reviewed: A Phylogenetic Methodology for Studying Character Macroevolution. Systematic Zoology, 1991, 40, 1.	1.6	244
107	A Developmental Genetic Model for the Origin of the Flower. , 0, , 1-27.		28