David S Hibbett

List of Publications by Year
in descending order

131 papers	23,221 citations	11651 70 h-index	12597 132 g-index
136 all docs	136 docs citations	136 times ranked	14639 citing authors

#	Article	IF	Citations
1	A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547.	2.5	1,994
2	Reconstructing the early evolution of Fungi using a six-gene phylogeny. Nature, 2006, 443, 818-822.	27.8	1,625
3	Phylogenetic Species Recognition and Species Concepts in Fungi. Fungal Genetics and Biology, 2000, 31, 21-32.	2.1	1,585
4	The Paleozoic Origin of Enzymatic Lignin Decomposition Reconstructed from 31 Fungal Genomes. Science, 2012, 336, 1715-1719.	12.6	1,424
5	Convergent losses of decay mechanisms and rapid turnover of symbiosis genes in mycorrhizal mutualists. Nature Genetics, 2015, 47, 410-415.	21.4	870
6	Assembling the fungal tree of life: progress, classification, and evolution of subcellular traits. American Journal of Botany, 2004, 91, 1446-1480.	1.7	718
7	Extensive sampling of basidiomycete genomes demonstrates inadequacy of the white-rot/brown-rot paradigm for wood decay fungi. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9923-9928.	7.1	595
8	Synthesis of phylogeny and taxonomy into a comprehensive tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12764-12769.	7.1	584
9	Genome, transcriptome, and secretome analysis of wood decay fungus <i>Postia placenta</i> supports unique mechanisms of lignocellulose conversion. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1954-1959.	7.1	530
10	The Plant Cell Wallâ€"Decomposing Machinery Underlies the Functional Diversity of Forest Fungi. Science, 2011, 333, 762-765.	12.6	512
11	Major clades of Agaricales: a multilocus phylogenetic overview. Mycologia, 2006, 98, 982-995.	1.9	449
12	Evolutionary instability of ectomycorrhizal symbioses in basidiomycetes. Nature, 2000, 407, 506-508.	27.8	426
13	Genome sequence of the button mushroom <i>Agaricus bisporus</i> reveals mechanisms governing adaptation to a humic-rich ecological niche. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17501-17506.	7.1	359
14	Contributions of rpb2 and tef1 to the phylogeny of mushrooms and allies (Basidiomycota, Fungi). Molecular Phylogenetics and Evolution, 2007, 43, 430-451.	2.7	341
15	The phylogenetic distribution of resupinate forms across the major clades of mushroomâ€forming fungi (Homobasidiomycetes). Systematics and Biodiversity, 2005, 3, 113-157.	1.2	340
16	The Amsterdam Declaration on Fungal Nomenclature. IMA Fungus, 2011, 2, 105-111.	3.8	320
17	Unearthing the roots of ectomycorrhizal symbioses. Nature Reviews Microbiology, 2016, 14, 760-773.	28.6	317
18	Progress in molecular and morphological taxon discovery in Fungi and options for formal classification of environmental sequences. Fungal Biology Reviews, 2011, 25, 38-47.	4.7	296

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19	The Fungi. Current Biology, 2009, 19, R840-R845.	3.9	279
20	Major clades of Agaricales: a multilocus phylogenetic overview. Mycologia, 2006, 98, 982-995.	1.9	268
21	Ectomycorrhizal fungi decompose soil organic matter using oxidative mechanisms adapted from saprotrophic ancestors. New Phytologist, 2016, 209, 1705-1719.	7.3	264
22	Comparative genomics of <i>Ceriporiopsis subvermispora</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5458-5463.	7.1	259
23	Phylogenetic and phylogenomic overview of the Polyporales. Mycologia, 2013, 105, 1350-1373.	1.9	259
24	Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. Nature Communications, 2020, 11, 5125.	12.8	258
25	Molecular systematics and biological diversification of Boletales. Mycologia, 2006, 98, 971-981.	1.9	215
26	Comparative Genomics of Early-Diverging Mushroom-Forming Fungi Provides Insights into the Origins of Lignocellulose Decay Capabilities. Molecular Biology and Evolution, 2016, 33, 959-970.	8.9	213
27	A revised family-level classification of the Polyporales (Basidiomycota). Fungal Biology, 2017, 121, 798-824.	2.5	190
28	Contemporaneous radiations of fungi and plants linked to symbiosis. Nature Communications, 2018, 9, 5451.	12.8	189
29	Megaphylogeny resolves global patterns of mushroom evolution. Nature Ecology and Evolution, 2019, 3, 668-678.	7.8	187
30	Out of the Palaeotropics? Historical biogeography and diversification of the cosmopolitan ectomycorrhizal mushroom family Inocybaceae. Journal of Biogeography, 2009, 36, 577-592.	3.0	184
31	Evolution of complex fruitingâ€"body morphologies in homobasidiomycetes. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1963-1969.	2.6	179
32	A phylogenetic overview of the Agaricomycotina. Mycologia, 2006, 98, 917-925.	1.9	172
33	Fungal functional ecology: bringing a traitâ€based approach to plantâ€associated fungi. Biological Reviews, 2020, 95, 409-433.	10.4	171
34	Analysis of Character Correlations Among Wood Decay Mechanisms, Mating Systems, and Substrate Ranges in Homobasidiomycetes. Systematic Biology, 2001, 50, 215-242.	5.6	170
35	Molecular systematics and biological diversification of Boletales. Mycologia, 2006, 98, 971-981.	1.9	167
36	Evolution of helotialean fungi (Leotiomycetes, Pezizomycotina): A nuclear rDNA phylogeny. Molecular Phylogenetics and Evolution, 2006, 41, 295-312.	2.7	165

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37	Amylocorticiales ord. nov. and Jaapiales ord. nov.: Early diverging clades of Agaricomycetidae dominated by corticioid forms. Mycologia, 2010, 102, 865-880.	1.9	165
38	Analysis of Character Correlations Among Wood Decay Mechanisms, Mating Systems, and Substrate Ranges in Homobasidiomycetes. Systematic Biology, 2001, 50, 215-242.	5.6	161
39	Sequence-based classification and identification of Fungi. Mycologia, 2016, 108, 1049-1068.	1.9	154
40	Fungal systematics: is a new age of enlightenment at hand?. Nature Reviews Microbiology, 2013, 11, 129-133.	28.6	153
41	The relative ages of ectomycorrhizal mushrooms and their plant hosts estimated using Bayesian relaxed molecular clock analyses. BMC Biology, 2009, 7, 13.	3.8	152
42	An overview of the higher level classification of Pucciniomycotina based on combined analyses of nuclear large and small subunit rDNA sequences. Mycologia, 2006, 98, 896-905.	1.9	143
43	Phylogenetic overview of the Boletineae. Fungal Biology, 2013, 117, 479-511.	2.5	143
44	Evolution of novel wood decay mechanisms in Agaricales revealed by the genome sequences of Fistulina hepatica and Cylindrobasidium torrendii. Fungal Genetics and Biology, 2015, 76, 78-92.	2.1	141
45	Higher-Level Phylogenetic Relationships of Homobasidiomycetes (Mushroom-Forming Fungi) Inferred from Four rDNA Regions. Molecular Phylogenetics and Evolution, 2002, 22, 76-90.	2.7	140
46	The search for the fungal tree of life. Trends in Microbiology, 2009, 17, 488-497.	7.7	139
47	Lignin-degrading peroxidases in Polyporales: an evolutionary survey based on 10 sequenced genomes. Mycologia, 2013, 105, 1428-1444.	1.9	134
48	Latent homology and convergent regulatory evolution underlies the repeated emergence of yeasts. Nature Communications, 2014, 5, 4471.	12.8	133
49	Progress toward a phylogenetic classification of the Polyporaceae through parsimony analysis of mitochondrial ribosomal DNA sequences. Canadian Journal of Botany, 1995, 73, 853-861.	1.1	132
50	Fossil mushrooms from Miocene and Cretaceous ambers and the evolution of Homobasidiomycetes. American Journal of Botany, 1997, 84, 981-991.	1.7	125
51	Molecular Evolution and Diversity of Lignin Degrading Heme Peroxidases in the Agaricomycetes. Journal of Molecular Evolution, 2008, 66, 243-257.	1.8	120
52	After the gold rush, or before the flood? Evolutionary morphology of mushroom-forming fungi (Agaricomycetes) in the early 21st century. Mycological Research, 2007, 111, 1001-1018.	2.5	116
53	Transcriptomic atlas of mushroom development reveals conserved genes behind complex multicellularity in fungi. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7409-7418.	7.1	115
54	Research Coordination Networks: a phylogeny for kingdom Fungi (Deep Hypha). Mycologia, 2006, 98, 829-837.	1.9	114

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55	Phylogenetic classification of <i>Trametes</i> (Basidiomycota, Polyporales) based on a fiveâ€“marker dataset. Taxon, 2011, 60, 1567-1583.	0.7	111
56	Genomewide analysis of polysaccharides degrading enzymes in 11 white- and brown-rot Polyporales provides insight into mechanisms of wood decay. Mycologia, 2013, 105, 1412-1427.	1.9	110
57	Fungal ecology catches fire. New Phytologist, 2009, 184, 279-282.	7.3	104
58	Evolutionary dynamics of host specialization in wood-decay fungi. BMC Evolutionary Biology, 2018, 18, 119.	3.2	104
59	The genome of the xerotolerant mold Wallemia sebi reveals adaptations to osmotic stress and suggests cryptic sexual reproduction. Fungal Genetics and Biology, 2012, 49, 217-226.	2.1	103
60	Phylogenetic Relationships of Lentinus (Basidiomycotina) Inferred from Molecular and Morphological Characters. Systematic Botany, 1993, 18, 409.	0.5	101
61	Research Coordination Networks: a phylogeny for kingdom Fungi (Deep Hypha). Mycologia, 2006, 98, 829-837.	1.9	97
62	Trends in Morphological Evolution in Homobasidiomycetes Inferred Using Maximum Likelihood: A Comparison of Binary and Multistate Approaches. Systematic Biology, 2004, 53, 889-903.	5.6	92
63	Phylogenetic relationships of cyphelloid homobasidiomycetes. Molecular Phylogenetics and Evolution, 2004, 33, 501-515.	2.7	92
64	Resolving the phylogenetic position of the Wallemiomycetes: an enigmatic major lineage of Basidiomycota. Canadian Journal of Botany, 2006, 84, 1794-1805.	1.1	91
65	A phylogenetic overview of the Agaricomycotina. Mycologia, 2006, 98, 917-925.	1.9	87
66	Phylogeny of the Pluteaceae (Agaricales, Basidiomycota): taxonomy and character evolution. Fungal Biology, 2011, 115, 1-20.	2.5	86
67	A phylogenetic overview of the antrodia clade (Basidiomycota, Polyporales). Mycologia, 2013, 105, 1391-1411.	1.9	86
68	Revisiting the taxonomy of Phanerochaete (Polyporales, Basidiomycota) using a four gene dataset and extensive ITS sampling. Fungal Biology, 2015, 119, 679-719.	2.5	86
69	Phylogenetic relationships of cantharelloid and clavarioid Homobasidiomycetes based on mitochondrial and nuclear rDNA sequences. Mycologia, 1999, 91, 944-963.	1.9	85
70	An overview of the higher level classification of Pucciniomycotina based on combined analyses of nuclear large and small subunit rDNA sequences. Mycologia, 2006, 98, 896-905.	1.9	80
71	Diversity and evolution of ectomycorrhizal host associations in the Sclerodermatineae (Boletales,) Tj ETQq1 1 0.784314 rgBT /Overlock	7.3	73
72	Unexpected diversity of basidiomycetous endophytes in sapwood and leaves of <i>Hevea</i>. Mycologia, 2015, 107, 284-297.	1.9	73

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73	The genome of Xylona heveae provides a window into fungal endophytism. Fungal Biology, 2016, 120, 26-42.	2.5	72
74	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. Molecular Biology and Evolution, 2021, 38, 1428-1446.	8.9	72
75	Molecular phylogenetics of the Gloeophyllales and relative ages of clades of Agaricomycotina producing a brown rot. Mycologia, 2011, 103, 510-524.	1.9	69
76	Genetic Bases of Fungal White Rot Wood Decay Predicted by Phylogenomic Analysis of Correlated Gene-Phenotype Evolution. Molecular Biology and Evolution, 2017, 34, 35-44.	8.9	65
77	Fruiting body form, not nutritional mode, is the major driver of diversification in mushroom-forming fungi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32528-32534.	7.1	65
78	Phylogenetic Relationships of Cantharelloid and Clavarioid Homobasidiomycetes Based on Mitochondrial and Nuclear rDNA Sequences. Mycologia, 1999, 91, 944.	1.9	64
79	Toward a phylogenetic classification of the Leotiomycetes based on rDNA data. Mycologia, 2006, 98, 1065-1075.	1.9	64
80	Automated Phylogenetic Taxonomy: An Example in the Homobasidiomycetes (Mushroom-Forming) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.6	63
81	EFFECTS OF GASTEROID FRUITING BODY MORPHOLOGY ON DIVERSIFICATION RATES IN THREE INDEPENDENT CLADES OF FUNGI ESTIMATED USING BINARY STATE SPECIATION AND EXTINCTION ANALYSIS. Evolution; International Journal of Organic Evolution, 2011, 65, 1305-1322.	2.3	63
82	Integrating phylogenetic analysis and classification in fungi. Mycologia, 1998, 90, 347-356.	1.9	62
83	Convergent evolution of sequestrate forms in<i>Amanita</i>under Mediterranean climate conditions. Mycologia, 2010, 102, 675-688.	1.9	59
84	The invisible dimension of fungal diversity. Science, 2016, 351, 1150-1151.	12.6	59
85	Evolutionary relationships of <i>Mycaureola dilseae</i> (Agaricales), a basidiomycete pathogen of a subtidal rhodophyte. American Journal of Botany, 2006, 93, 547-556.	1.7	58
86	Polypores and genus concepts in Phanerochaetaceae (Polyporales, Basidiomycota). MycoKeys, 0, 17, 1-46.	1.9	54
87	Genomics and Development of<i>Lentinus tigrinus</i>: A White-Rot Wood-Decaying Mushroom with Dimorphic Fruiting Bodies. Genome Biology and Evolution, 2018, 10, 3250-3261.	2.5	53
88	Evolutionary Relationships of <i>Lentinus</i> to the Polyporaceae: Evidence from Restriction Analysis of Enzymatically Amplified Ribosomal Dna. Mycologia, 1991, 83, 425-439.	1.9	52
89	Phylogenetic relationships of<i>Sparassis</i>inferred from nuclear and mitochondrial ribosomal DNA and RNA polymerase sequences. Mycologia, 2004, 96, 1015-1029.	1.9	48
90	Degradation of Bunker C Fuel Oil by White-Rot Fungi in Sawdust Cultures Suggests Potential Applications in Bioremediation. PLoS ONE, 2015, 10, e0130381.	2.5	43

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91	Evolution of Marine Mushrooms. Biological Bulletin, 2001, 201, 319-322.	1.8	42
92	(308â€“310) Proposals to permit DNA sequence data to serve as types of names of fungi. Taxon, 2016, 65, 899-900.	0.7	42
93	Toward genome-enabled mycology. Mycologia, 2013, 105, 1339-1349.	1.9	38
94	Mycophagous rove beetles highlight diverse mushrooms in the Cretaceous. Nature Communications, 2017, 8, 14894.	12.8	38
95	The phylogeny of selected Phylloporus species, inferred from NUC-LSU and ITS sequences, and descriptions of new species from the Old World. Fungal Diversity, 2012, 55, 109-123.	12.3	37
96	Evolutionary Relationships of Lentinus to the Polyporaceae: Evidence from Restriction Analysis of Enzymatically Amplified Ribosomal DNA. Mycologia, 1991, 83, 425.	1.9	36
97	Phylogenetic Relationships of Sparassis Inferred from Nuclear and Mitochondrial Ribosomal DNA and RNA Polymerase Sequences. Mycologia, 2004, 96, 1015.	1.9	35
98	Integrating Phylogenetic Analysis and Classification in Fungi. Mycologia, 1998, 90, 347.	1.9	33
99	Species delimitation in<i>Trametes</i>: a comparison of ITS, RPB1, RPB2 and TEF1 gene phylogenies. Mycologia, 2014, 106, 735-745.	1.9	33
100	Molecular phylogeny and phylogeography of Holarctic species of Pluteus section Pluteus (Agaricales:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	33
101	Characterization of Three <i>mnp</i> Genes of <i>Fomitiporia mediterranea</i> and Report of Additional Class II Peroxidases in the Order Hymenochaetales. Applied and Environmental Microbiology, 2010, 76, 6431-6440.	3.1	32
102	Phylogenetic relationships and morphological evolution in<i>Lentinus</i>,<i>Polyporellus</i>and<i>Neofavolus</i>, emphasizing southeastern Asian taxa. Mycologia, 2015, 107, 460-474.	1.9	31
103	Phylogenetic relationships of the marine gasteromycete<i>Nia vibrissa</i>. Mycologia, 2001, 93, 679-688.	1.9	29
104	Phylogenetic analyses of Aleurodiscus s.l. and allied genera. Mycologia, 2001, 93, 720-731.	1.9	28
105	Another fossil agaric from Dominican amber. Mycologia, 2003, 95, 685-687.	1.9	27
106	Phylogenetic taxon definitions for Fungi, Dikarya, Ascomycota and Basidiomycota. IMA Fungus, 2018, 9, 291-298.	3.8	26
107	Phylogeny and a new species of Sparassis (Polyporales, Basidiomycota): evidence from mitochondrial atp6, nuclear rDNA and rpb2 genes. Mycologia, 2006, 98, 584-592.	1.9	25
108	Climate, decay, and the death of the coal forests. Current Biology, 2016, 26, R563-R567.	3.9	25

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109	Where are all the undocumented fungal species? A study of <i>Mortierella</i> demonstrates the need for sequenceâ€based classification. New Phytologist, 2011, 191, 592-596.	7.3	24
110	Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus Fomitopsis pinicola. Applied and Environmental Microbiology, 2018, 84, .	3.1	22
111	Towards the unification of sequenceâ€based classification and sequenceâ€based identification of hostâ€associated microorganisms. New Phytologist, 2015, 205, 27-31.	7.3	21
112	Evolutionary transition to the ectomycorrhizal habit in the genomes of a hyperdiverse lineage of mushroomâ€forming fungi. New Phytologist, 2022, 233, 2294-2309.	7.3	21
113	Phylogenetic Relationships of the Marine Gasteromycete Nia vibrissa. Mycologia, 2001, 93, 679.	1.9	19
114	Draft genome sequence of a monokaryotic model brown-rot fungus Postia (Rhodonia) placenta SB12. Genomics Data, 2017, 14, 21-23.	1.3	19
115	The Secotioid From of Lentinus tigrinus: Genetics and Development of a Fungal Morphological Innovation. American Journal of Botany, 1994, 81, 466.	1.7	18
116	Hymenophore Development and Evolution in <i>Lentinus</i>. Mycologia, 1993, 85, 428-443.	1.9	17
117	<i>Sparassis cystidiosa</i>sp. nov. from Thailand is described using morphological and molecular data. Mycologia, 2004, 96, 1010-1014.	1.9	16
118	Population genomics provides insights into the genetic basis of adaptive evolution in the mushroom-forming fungus Lentinula edodes. Journal of Advanced Research, 2022, 38, 91-106.	9.5	16
119	Draft Genome Sequence of the White-Rot Fungus <i>Obba rivulosa</i> 3A-2. Genome Announcements, 2016, 4, .	0.8	15
120	<i>Neocampanella</i>, a new corticioid fungal genus, and a note on<i>Dendrothele bispora</i>. Botany, 2009, 87, 875-882.	1.0	13
121	Evolutionary Morphogenesis of Sexual Fruiting Bodies in Basidiomycota: Toward a New Evo-Devo Synthesis. Microbiology and Molecular Biology Reviews, 2022, 86, e0001921.	6.6	13
122	Hymenophore Development and Evolution in Lentinus. Mycologia, 1993, 85, 428.	1.9	12
123	Phylogeny and genetic diversity ofBridgeoporus nobilissimusinferred using mitochondrial and nuclear rDNA sequences. Mycologia, 2003, 95, 836-845.	1.9	12
124	Proposals for consideration at IMC11 to modify provisions related solely to fungi in the International Code of Nomenclature for algae, fungi, and plants. IMA Fungus, 2018, 9, i-vii.	3.8	10
125	Sporocarp ontogeny in <i>Panus</i> (Basidiomycotina): evolution and classification. American Journal of Botany, 1993, 80, 1336-1348.	1.7	9
126	Global phylogeny of the Shiitake mushroom and related Lentinula species uncovers novel diversity and suggests an origin in the Neotropics. Molecular Phylogenetics and Evolution, 2022, 173, 107494.	2.7	8

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127	Toward Sequence-Based Classification of Fungal Species. IMA Fungus, 2013, 4, A33-A34.	3.8	7
128	Sporocarp Ontogeny in Panus (Basidiomycotina): Evolution and Classification. American Journal of Botany, 1993, 80, 1336.	1.7	6
129	RNA-editing in Basidiomycota, revisited. ISME Communications, 2021, 1, .	4.2	2
130	Digital identifiers for fungal speciesâ€”Response. Science, 2016, 352, 1183-1183.	12.6	1
131	II.14. Major Events in the Evolution of Fungi. , 2013, , 152-158.		0