John W Taylor

List of Publications by Year in descending order

153 papers	14,433 citations	22153 59 h-index	21540 114 g-index
156 all docs	156 docs citations	156 times ranked	12459 citing authors

#	Article	IF	Citations
1	Phylogenetic Species Recognition and Species Concepts in Fungi. Fungal Genetics and Biology, 2000, 31, 21-32.	2.1	1,585
2	Dispersal in microbes: fungi in indoor air are dominated by outdoor air and show dispersal limitation at short distances. ISME Journal, 2013, 7, 1262-1273.	9.8	603
3	Endemism and functional convergence across the North American soil mycobiome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6341-6346.	7.1	482
4	THEEVOLUTION OFASEXUALFUNGI: Reproduction, Speciation and Classification. Annual Review of Phytopathology, 1999, 37, 197-246.	7.8	472
5	Drought delays development of the sorghum root microbiome and enriches for monoderm bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4284-E4293.	7.1	391
6	A MULTILOCUS GENEALOGICAL APPROACH TO PHYLOGENETIC SPECIES RECOGNITION IN THE MODEL EUKARYOTE NEUROSPORA. Evolution; International Journal of Organic Evolution, 2003, 57, 2703-2720.	2.3	385
7	Dating divergences in the Fungal Tree of Life: review and new analyses. Mycologia, 2006, 98, 838-849.	1.9	330
8	The Amsterdam Declaration on Fungal Nomenclature. IMA Fungus, 2011, 2, 105-111.	3.8	320
9	Phylogeography of the fungal pathogen Histoplasma capsulatum. Molecular Ecology, 2003, 12, 3383-3401.	3.9	303
10	Comparative genomic analyses of the human fungal pathogens Coccidioides and their relatives. Genome Research, 2009, 19, 1722-1731.	5.5	295
11	Eukaryotic microbes, species recognition and the geographic limits of species: examples from the kingdom Fungi. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 1947-1963.	4.0	291
12	Dating divergences in the Fungal Tree of Life: review and new analyses. Mycologia, 2006, 98, 838-849.	1.9	279
13	The Fungi. Current Biology, 2009, 19, R840-R845.	3.9	279
14	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	4.1	275
15	Polymerase Chain Reaction (PCR) Primers for Amplifying and Sequencing Nuclear 18S rDNA from Lichenized Fungi. Mycologia, 1992, 84, 589-592.	1.9	245
16	Population genomics and local adaptation in wild isolates of a model microbial eukaryote. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2831-2836.	7.1	238
17	Dating the molecular clock in fungi â€“ how close are we?. Fungal Biology Reviews, 2010, 24, 1-16.	4.7	232
18	Organization of genetic variation in individuals of arbuscular mycorrhizal fungi. Nature, 2004, 427, 733-737.	27.8	231

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19	Cause of sea fan death in the West Indies. Nature, 1998, 394, 137-138.	27.8	219
20	REPRODUCTIVE ISOLATION AND PHYLOGENETIC DIVERGENCE IN NEUROSPORA: COMPARING METHODS OF SPECIES RECOGNITION IN A MODEL EUKARYOTE. Evolution; International Journal of Organic Evolution, 2003, 57, 2721-2741.	2.3	215
21	The fitness of filamentous fungi. Trends in Microbiology, 2002, 10, 474-481.	7.7	210
22	The Novel and Endemic Pathogen Hypotheses: Competing Explanations for the Origin of Emerging Infectious Diseases of Wildlife. Conservation Biology, 2005, 19, 1441-1448.	4.7	208
23	Fungal community assembly in drought-stressed sorghum shows stochasticity, selection, and universal ecological dynamics. Nature Communications, 2020, 11, 34.	12.8	176
24	MycoBank gearing up for new horizons. IMA Fungus, 2013, 4, 371-379.	3.8	170
25	One Fungus = One Name: DNA and fungal nomenclature twenty years after PCR. IMA Fungus, 2011, 2, 113-120.	3.8	169
26	Chamber Bioaerosol Study: Outdoor Air and Human Occupants as Sources of Indoor Airborne Microbes. PLoS ONE, 2015, 10, e0128022.	2.5	168
27	A gene genealogical approach to recognize phylogenetic species boundaries in the lichenized fungusLetharia. Mycologia, 2001, 93, 38-53.	1.9	167
28	Population genomic sequencing of Coccidioides fungi reveals recent hybridization and transposon control. Genome Research, 2010, 20, 938-946.	5.5	166
29	Sequence-based classification and identification of Fungi. Mycologia, 2016, 108, 1049-1068.	1.9	154
30	Higher Taxa of Basidiomycetes: An 18S Rrna Gene Perspective. Mycologia, 1993, 85, 923-936.	1.9	153
31	IsPenicilliummonophyletic? An evaluation of phylogeny in the family Trichocomaceae from 18S, 5.8S and ITS ribosomal DNA sequence data. Mycologia, 1995, 87, 210-222.	1.9	153
32	Fungal multilocus sequence typing â€" itâ€™s not just for bacteria. Current Opinion in Microbiology, 2003, 6, 351-356.	5.1	153
33	Evolutionary relationships inAspergillussectionFumigatiinferred from partial Î²-tubulin and hydrophobin DNA sequences. Mycologia, 1998, 90, 831-845.	1.9	138
34	Fusarium: more than a node or a foot-shaped basal cell. Studies in Mycology, 2021, 98, 100116.	7.2	134
35	Transcriptomic analysis of field-droughted sorghum from seedling to maturity reveals biotic and metabolic responses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 27124-27132.	7.1	129
36	A continental view of pineâ€associated ectomycorrhizal fungal spore banks: a quiescent functional guild with a strong biogeographic pattern. New Phytologist, 2015, 205, 1619-1631.	7.3	126

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37	Importance of Resolving Fungal Nomenclature: the Case of Multiple Pathogenic Species in the Cryptococcus Genus. MSphere, 2017, 2, .	2.9	124
38	Airborne Bacterial Communities in Residences: Similarities and Differences with Fungi. PLoS ONE, 2014, 9, e91283.	2.5	120
39	Research Coordination Networks: a phylogeny for kingdom Fungi (Deep Hypha). Mycologia, 2006, 98, 829-837.	1.9	114
40	Is Penicillium Monophyletic? An Evaluation of Phylogeny in the Family Trichocomaceae from 18S, 5.8S and ITS Ribosomal DNA Sequence Data. Mycologia, 1995, 87, 210.	1.9	109
41	Genome Diversity, Recombination, and Virulence across the Major Lineages of Paracoccidioides. MSphere, 2016, 1, .	2.9	109
42	Amplification and Sequencing of Dna from Fungal Herbarium Specimens. Mycologia, 1990, 82, 175-184.	1.9	104
43	Clonal reproduction in fungi. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8901-8908.	7.1	104
44	Genetic isolation between two recently diverged populations of a symbiotic fungus. Molecular Ecology, 2015, 24, 2747-2758.	3.9	100
45	Phylogeny of Opisthokonta and the evolution of multicellularity and complexity in Fungi and Metazoa. International Journal of Astrobiology, 2003, 2, 203-211.	1.6	97
46	Long-oligomer microarray profiling in Neurospora crassa reveals the transcriptional program underlying biochemical and physiological events of conidial germination. Nucleic Acids Research, 2005, 33, 6469-6485.	14.5	95
47	Genome-resolved metagenomics reveals role of iron metabolism in drought-induced rhizosphere microbiome dynamics. Nature Communications, 2021, 12, 3209.	12.8	93
48	Genome Wide Association Identifies Novel Loci Involved in Fungal Communication. PLoS Genetics, 2013, 9, e1003669.	3.5	92
49	Strong succession in arbuscular mycorrhizal fungal communities. ISME Journal, 2019, 13, 214-226.	9.8	86
50	Cryptic species inStachybotrys chartarum. Mycologia, 2002, 94, 814-822.	1.9	85
51	Pathogenic Clones versus Environmentally Driven Population Increase: Analysis of an Epidemic of the Human Fungal Pathogen Coccidioides immitis. Journal of Clinical Microbiology, 2000, 38, 807-813.	3.9	84
52	Comparative Transcriptomics of the Saprobic and Parasitic Growth Phases in Coccidioides spp. PLoS ONE, 2012, 7, e41034.	2.5	79
53	Temperature sensitivities of extracellular enzyme V_{max} and K_m across thermal environments. Global Change Biology, 2018, 24, 2884-2897.	9.5	72
54	The endozoan, small-mammal reservoir hypothesis and the life cycle of Coccidioides species. Medical Mycology, 2019, 57, S16-S20.	0.7	72

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55	Massive Changes in Genome Architecture Accompany the Transition to Self-Fertility in the Filamentous FungusNeurospora tetrasperma. Genetics, 2011, 189, 55-69.	2.9	69
56	Soil isolation and molecular identification ofCoccidioides immitis. Mycologia, 2000, 92, 406-410.	1.9	67
57	The Microbiome and Metabolites in Fermented Pu-erh Tea as Revealed by High-Throughput Sequencing and Quantitative Multiplex Metabolite Analysis. PLoS ONE, 2016, 11, e0157847.	2.5	67
58	Commentaries: Name Changes in Medically Important Fungi and Their Implications for Clinical Practice. Journal of Clinical Microbiology, 2015, 53, 1056-1062.	3.9	65
59	Comment on â€œGlobal assessment of arbuscular mycorrhizal fungus diversity reveals very low endemismâ€. Science, 2016, 351, 826-826.	12.6	59
60	Neurosporain temperate forests of western North America. Mycologia, 2004, 96, 66-74.	1.9	58
61	Engineering Kluyveromyces marxianus as a Robust Synthetic Biology Platform Host. MBio, 2018, 9, .	4.1	58
62	Co-occurrence networks reveal more complexity than community composition in resistance and resilience of microbial communities. Nature Communications, 2022, 13, .	12.8	58
63	The Dynamic Genome and Transcriptome of the Human Fungal Pathogen Blastomyces and Close Relative Emmonsia. PLoS Genetics, 2015, 11, e1005493.	3.5	57
64	18S rRNA gene sequences and supraordinal classification of the Erysiphales. Mycologia, 1994, 86, 212-216.	1.9	56
65	Genomic and fossil windows into the secret lives of the most ancient fungi. Nature Reviews Microbiology, 2020, 18, 717-730.	28.6	56
66	Passive dust collectors for assessing airborne microbial material. Microbiome, 2015, 3, 46.	11.1	55
67	Continentalâ€level population differentiation and environmental adaptation in the mushroom <scp>S</scp>uillus brevipes. Molecular Ecology, 2017, 26, 2063-2076.	3.9	55
68	Holo-omics for deciphering plant-microbiome interactions. Microbiome, 2021, 9, 69.	11.1	53
69	A Unique Signal Distorts the Perception of Species Richness and Composition in High-Throughput Sequencing Surveys of Microbial Communities: a Case Study of Fungi in Indoor Dust. Microbial Ecology, 2013, 66, 735-741.	2.8	52
70	Independent Subtilases Expansions in Fungi Associated with Animals. Molecular Biology and Evolution, 2011, 28, 3395-3404.	8.9	51
71	Glomeromycotina: what is a species and why should we care?. New Phytologist, 2018, 220, 963-967.	7.3	51
72	Genetic Architecture of a Reinforced, Postmating, Reproductive Isolation Barrier between Neurospora Species Indicates Evolution via Natural Selection. PLoS Genetics, 2011, 7, e1002204.	3.5	50

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73	Recombination and genetic differentiation in the mycorrhizal fungusCenococcum geophilumFr. Mycologia, 2002, 94, 772-780.	1.9	49
74	Extracellular ammonia at sites of pulmonary infection with Coccidioides posadasii contributes to severity of the respiratory disease. Microbial Pathogenesis, 2013, 59-60, 19-28.	2.9	48
75	Microbes and associated soluble and volatile chemicals on periodically wet household surfaces. Microbiome, 2017, 5, 128.	11.1	45
76	Rhynie chert: a window into a lost world of complex plantâ€“fungus interactions. New Phytologist, 2007, 174, 475-479.	7.3	44
77	Aspergillus, its sexual states and the new International Code of Nomenclature. Mycologia, 2014, 106, 1051-1062.	1.9	43
78	Mechanisms of Homothallism in Fungi and Transitions between Heterothallism and Homothallism. , 0, , 35-57.		43
79	Ectomycorrhizal fungal diversity predicted to substantially decline due to climate changes in North American Pinaceae forests. Journal of Biogeography, 2020, 47, 772-782.	3.0	42
80	Fungi isolated from Miscanthus and sugarcane: biomass conversion, fungal enzymes, and hydrolysis of plant cell wall polymers. Biotechnology for Biofuels, 2015, 8, 38.	6.2	41
81	Positive Directional Selection in the Proline-Rich Antigen (PRA) Gene Among the Human Pathogenic Fungi Coccidioides immitis, C. posadasii and Their Closest Relatives. Molecular Biology and Evolution, 2004, 21, 1134-1145.	8.9	40
82	Multilocus sequence data reveal extensive phylogenetic species diversity within the Neurospora discreta complex. Mycologia, 2006, 98, 436-446.	1.9	40
83	Primers for genotyping single nucleotide polymorphisms and microsatellites in the pathogenic fungus Coccidioides immitis. Molecular Ecology, 1999, 8, 1082-1084.	3.9	38
84	Comparative Phylogenomics of Pathogenic and Nonpathogenic Species. G3: Genes, Genomes, Genetics, 2016, 6, 235-244.	1.8	38
85	Neurospora in Temperate Forests of Western North America. Mycologia, 2004, 96, 66.	1.9	34
86	Neurospora discreta as a model to assess adaptation of soil fungi to warming. BMC Evolutionary Biology, 2015, 15, 198.	3.2	34
87	Endogenous Small RNA Mediates Meiotic Silencing of a Novel DNA Transposon. G3: Genes, Genomes, Genetics, 2015, 5, 1949-1960.	1.8	34
88	Sources of Fungal Genetic Variation and Associating It with Phenotypic Diversity. Microbiology Spectrum, 2017, 5, .	3.0	33
89	Genomic sequencing reveals historical, demographic and selective factors associated with the diversification of the fireâ€associated fungus Neurospora discreta. Molecular Ecology, 2015, 24, 5657-5675.	3.9	32
90	New findings of Neurospora in Europe and comparisons of diversity in temperate climates on continental scales. Mycologia, 2006, 98, 550-559.	1.9	31

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91	Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially ectomycorrhizal. Mycologia, 2017, 109, 115-127.	1.9	31
92	A set of electrophoretic molecular markers for strain typing and population genetic studies ofHistoplasma capsulatum. Electrophoresis, 1997, 18, 1047-1053.	2.4	30
93	Neurospora in temperate forests of western North America. Mycologia, 2004, 96, 66-74.	1.9	28
94	Mushrooms: Morphological complexity in the fungi. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11655-11656.	7.1	27
95	Phylogenetic taxon definitions for Fungi, Dikarya, Ascomycota and Basidiomycota. IMA Fungus, 2018, 9, 291-298.	3.8	26
96	Evolution of the Mating-Type Locus: The Basidiomycetes. , 0, , 19-34.		25
97	Dikaryons, Diploids, and Evolution. , 0, , 333-348.		25
98	Mycothermus thermophilusgen. et comb. nov., a new home for the itinerant thermophileScytalidium thermophilum(Torula thermophila). Mycologia, 2015, 107, 319-327.	1.9	24
99	Lagenidium giganteumPathogenicity in Mammals. Emerging Infectious Diseases, 2015, 21, 290-297.	4.3	24
100	Article 59: reinterpretation or revision?. Taxon, 1992, 41, 91-98.	0.7	23
101	The Evolution ofMAT: The Ascomycetes. , 0, , 1-18.		22
102	The Origin of Multiple Mating Types in the Model MushroomsCoprinopsis cinereaandSchizophyllum commune. , 0, , 283-300.		22
103	Sexual Reproduction in Plant Pathogenic Oomycetes: Biology and Impact on Disease. , 0, , 445-458.		21
104	A global multilocus analysis of the model fungus Neurospora reveals a single recent origin of a novel genetic system. Molecular Phylogenetics and Evolution, 2014, 78, 136-147.	2.7	20
105	A different suite: The assemblage of distinct fungal communities in water-damaged units of a poorly-maintained public housing building. PLoS ONE, 2019, 14, e0213355.	2.5	20
106	Choosing one name for pleomorphic fungi: The example of Aspergillus versus Eurotium, Neosartorya and Emericella. Taxon, 2016, 65, 593-601.	0.7	18
107	Why Sex Is Good: On Fungi and Beyond. , 0, , 527-534.		18
108	Temperature acclimation and adaptation of enzyme physiology in Neurospora discreta. Fungal Ecology, 2018, 35, 78-86.	1.6	17

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109	Pneumocystis cariniia and the ustomycetous red yeast fungi. Molecular Microbiology, 1993, 8, 425-426.	2.5	16
110	Neurospora from Natural Populations: Population Genomics Insights into the Life History of a Model Microbial Eukaryote. Methods in Molecular Biology, 2020, 2090, 313-336.	0.9	16
111	Evolutionary Perspectives on Human Fungal Pathogens. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a019588.	6.2	13
112	Agricultural Soil Management Practices Differentially Shape the Bacterial and Fungal Microbiomes of Sorghum bicolor. Applied and Environmental Microbiology, 2021, 87, .	3.1	13
113	Fungal Signature of Moisture Damage in Buildings: Identification by Targeted and Untargeted Approaches with Mycobiome Data. Applied and Environmental Microbiology, 2020, 86, .	3.1	12
114	Sexual Reproduction and Significance of MAT in the Aspergilli. , 0, , 123-142.		12
115	(2441) Proposal to conserve the name Aspergillus (Fungi: Eurotiales:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 65, 631-632.	0.7	11
116	Analysis of Mating-Type Locus Organization and Synteny in Mushroom Fungi: Beyond Model Species. , 0, , 317-331.		11
117	Successional adaptive strategies revealed by correlating arbuscular mycorrhizal fungal abundance with host plant gene expression. Molecular Ecology, 2023, 32, 2674-2687.	3.9	11
118	(117â€“119) Proposals to make the preâ€“publication deposit of key nomenclatural information in a recognized repository a requirement for valid publication of organisms treated as fungi under the Code. Taxon, 2010, 59, 660-662.	0.7	10
119	Decades-old studies of fungi associated with mammalian lungs and modern DNA sequencing approaches help define the nature of the lung mycobiome. PLoS Pathogens, 2020, 16, e1008684.	4.7	10
120	Mating in the Smut Fungi: From a to b to the Downstream Cascades. , 0, , 377-387.		10
121	Fungal species: thoughts on their recognition, maintenance and selection. , 2007, , 313-339.		9
122	Phylogenetic and physiological traits of oomycetes originally identified as Lagenidium giganteum from fly and mosquito larvae. Mycologia, 2019, 111, 408-422.	1.9	9
123	Description of three novel Lagenidium (Oomycota) species causing infection in mammals. Revista Iberoamericana De Micologia, 2016, 33, 83-91.	0.9	8
124	The mat Genes of Schizosaccharomyces pombe: Expression, Homothallic Switch, and Silencing. , 0, , 143-157.		8
125	Histoplasma capsulatum Isolated from Tadarida brasiliensis Bats Captured in Mexico Form a Sister Group to North American Class 2 Clade. Journal of Fungi (Basel, Switzerland), 2021, 7, 529.	3.5	7
126	Keep your friends close: Host compartmentalisation of microbial communities facilitates decoupling from effects of habitat fragmentation. Ecology Letters, 2021, 24, 2674-2686.	6.4	7

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127	Ascomycetes: the Candida MAT Locus: Comparing MAT in the Genomes of Hemiascomycetous Yeasts. , 0, , 247-263.		7
128	Sex in the Rest: Mysterious Mating in the Chytridiomycota and Zygomycota. , 0, , 405-418.		7
129	Trisporic Acid and Mating in Zygomycetes. , 0, , 431-443.		7
130	Decisions, Decisions: Donor Preference during Budding Yeast Mating-Type Switching. , 0, , 159-170.		7
131	MAT and Its Role in the Homothallic Ascomycete Sordaria macrospora. , 0, , 171-188.		6
132	Cochliobolus and Podospora: Mechanisms of Sex Determination and the Evolution of Reproductive Lifestyle. , 0, , 91-121.		6
133	Evolution of Human-Pathogenic Fungi: Phylogenies and Species. , 0, , 113-P1.		5
134	Pheromones and Pheromone Receptors in Schizophyllum commune Mate Recognition: Retrospective of a Half-Century of Progress and a Look Ahead. , 0, , 301-315.		5
135	History of the Mating Types inUstilago maydis. , 0, , 349-375.		5
136	Mating-Type Locus Control of Cell Identity. , 0, , 59-73.		5
137	MAT, Mating, Switching, and Pathogenesis inCandida albicans, Candida dubliniensis, andCandida glabrata. , 0, , 213-234.		4
138	The poetry of mycological accomplishment and challenge. Fungal Biology Reviews, 2011, 25, 3-13.	4.7	3
139	Appropriately Sized Genera and Appropriately Ranked Higher Taxa. IMA Fungus, 2014, 5, A1-A2.	3.8	3
140	Sources of Fungal Genetic Variation and Associating It with Phenotypic Diversity. , 0, , 635-655.		3
141	The Evolutionary Implications of an Asexual Lifestyle Manifested by Penicillium marneffei. , 0, , 201-212.		3
142	How the Genome Is Organized in the Glomeromycota. , 0, , 419-430.		3
143	Why Bother with Sex? Answers from Experiments with Yeast and Other Organisms. , 0, , 489-506.		3
144	Cloning the Mating-Type Genes of Schizophyllum commune: A Historical Perspective. , 2014, , 265-282.		2

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145	Bipolar and Tetrapolar Mating Systems in the Ustilaginales. , 0, , 389-404.		2
146	Rewiring Transcriptional Circuitry: Mating-Type Regulation in Saccharomyces cerevisiae and Candida albicans as a Model for Evolution. , 0, , 75-89.		2
147	Evolution ofMATin theCandidaSpecies Complex: Sex, Ploidy, and Complete Sexual Cycles inC. lusitaniae, C. guilliermondii, andC. krusei. , 0, , 235-245.		1
148	Sex in Natural Populations of Cryptococcus gattii. , 0, , 477-488.		1
149	O'Neil Ray Collins, 1931â€“1989. Mycologia, 1993, 85, 868-872.	1.9	0
150	A century later, resolving Joseph Grinnell's â€œstriking case of adventitious colorationâ€• Auk, 2017, 134, 551-552.	1.4	0
151	Kenneth Wells, 24 July 1927â€“19 July 2016. Mycologia, 2019, 111, 525-528.	1.9	0
152	Origin, Evolution, and Extinction of Asexual Fungi: Experimental Tests Using Cryptococcus neoformans. , 0, , 459-475.		0
153	Evolution of Silencing at the Mating-Type Loci in Hemiascomycetes. , 0, , 189-200.		0