John W Taylor

List of Publications by Citations

152 papers	10,953 citations	53 h-index	103 g-index
156 ext. papers	12,808 ext. citations	7.1 avg, IF	6.25 L-index

#	Paper	IF	Citations
152	Phylogenetic species recognition and species concepts in fungi. *Fungal Genetics and Biology*, **2000**, 31, 21-32	3.9	1375
151	THE EVOLUTION OF ASEXUAL FUNGI: Reproduction, Speciation and Classification. *Annual Review of Phytopathology*, **1999**, 37, 197-246	10.8	421
150	Dispersal in microbes: fungi in indoor air are dominated by outdoor air and show dispersal limitation at short distances. *ISME Journal*, **2013**, 7, 1262-73	11.9	373
149	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, 6341-6	11.5	351
148	A multilocus genealogical approach to phylogenetic species recognition in the model eukaryote Neurospora. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 2703-20	3.8	346
147	Dating divergences in the Fungal Tree of Life: review and new analyses. *Mycologia*, **2006**, 98, 838-849	2.4	289
146	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, 1947-63	5.8	266
145	The amsterdam declaration on fungal nomenclature. *IMA Fungus*, **2011**, 2, 105-12	6.8	260
144	Phylogeography of the fungal pathogen Histoplasma capsulatum. *Molecular Ecology*, **2003**, 12, 3383-401	5.7	248
143	Dating divergences in the Fungal Tree of Life: review and new analyses. *Mycologia*, **2006**, 98, 838-49	2.4	239
142	Comparative genomic analyses of the human fungal pathogens Coccidioides and their relatives. *Genome Research*, **2009**, 19, 1722-31	9.7	229
141	The fungi. *Current Biology*, **2009**, 19, R840-5	6.3	226
140	Polymerase Chain Reaction (PCR) Primers for Amplifying and Sequencing Nuclear 18S rDNA from Lichenized Fungi. *Mycologia*, **1992**, 84, 589-592	2.4	220
139	Organization of genetic variation in individuals of arbuscular mycorrhizal fungi. *Nature*, **2004**, 427, 733-7	50.4	202
138	Dating the molecular clock in fungi how close are we?. *Fungal Biology Reviews*, **2010**, 24, 1-16	6.8	200
137	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	11.5	199
136	Reproductive isolation and phylogenetic divergence in Neurospora: comparing methods of species recognition in a model eukaryote. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 2721-41	3.8	196

135	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, 2831-6	11.5	192
134	The Novel and Endemic Pathogen Hypotheses: Competing Explanations for the Origin of Emerging Infectious Diseases of Wildlife. *Conservation Biology*, **2005**, 19, 1441-1448	6	182
133	The fitness of filamentous fungi. *Trends in Microbiology*, **2002**, 10, 474-81	12.4	172
132	Cause of sea fan death in the West Indies. *Nature*, **1998**, 394, 137-138	50.4	171
131	A gene genealogical approach to recognize phylogenetic species boundaries in the lichenized fungus Letharia. *Mycologia*, **2001**, 93, 38-53	2.4	156
130	Population genomic sequencing of Coccidioides fungi reveals recent hybridization and transposon control. *Genome Research*, **2010**, 20, 938-46	9.7	140
129	Is Penicillium monophyletic? An evaluation of phylogeny in the family Trichocomaceae from 18S, 5.8S and ITS ribosomal DNA sequence data. *Mycologia*, **1995**, 87, 210-222	2.4	136
128	Fungal multilocus sequence typing--it's not just for bacteria. *Current Opinion in Microbiology*, **2003**, 6, 351-6	7.9	133
127	Higher Taxa of Basidiomycetes: An 18S Rrna Gene Perspective. *Mycologia*, **1993**, 85, 923-936	2.4	127
126	One Fungus = One Name: DNA and fungal nomenclature twenty years after PCR. *IMA Fungus*, **2011**, 2, 113-20	6.8	126
125	Evolutionary relationships in Aspergillus section Fumigati inferred from partial β-tubulin and hydrophobin DNA sequences. *Mycologia*, **1998**, 90, 831-845	2.4	122
124	MycoBank gearing up for new horizons. *IMA Fungus*, **2013**, 4, 371-9	6.8	117
123	Chamber bioaerosol study: outdoor air and human occupants as sources of indoor airborne microbes. *PLoS ONE*, **2015**, 10, e0128022	3.7	116
122	Sequence-based classification and identification of Fungi. *Mycologia*, **2016**, 108, 1049-1068	2.4	111
121	Research Coordination Networks: a phylogeny for kingdom Fungi (Deep Hypha). *Mycologia*, **2006**, 98, 829-837	2.4	101
120	Amplification and Sequencing of Dna from Fungal Herbarium Specimens. *Mycologia*, **1990**, 82, 175-184	2.4	100
119	Airborne bacterial communities in residences: similarities and differences with fungi. *PLoS ONE*, **2014**, 9, e91283	3.7	99
118	A continental view of pine-associated ectomycorrhizal fungal spore banks: a quiescent functional guild with a strong biogeographic pattern. *New Phytologist*, **2015**, 205, 1619-1631	9.8	95

117	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	2.4	95
116	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. *MBio*, **2020**, 11,	7.8	94
115	Long-oligomer microarray profiling in Neurospora crassa reveals the transcriptional program underlying biochemical and physiological events of conidial germination. *Nucleic Acids Research*, **2005**, 33, 6469-85	20.1	88
114	Clonal reproduction in fungi. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8901-8	11.5	78
113	Cryptic species in Stachybotrys chartarum. *Mycologia*, **2002**, 94, 814-822	2.4	78
112	Pathogenic clones versus environmentally driven population increase: analysis of an epidemic of the human fungal pathogen Coccidioides immitis. *Journal of Clinical Microbiology*, **2000**, 38, 807-13	9.7	78
111	Genetic isolation between two recently diverged populations of a symbiotic fungus. *Molecular Ecology*, **2015**, 24, 2747-58	5.7	75
110	Importance of Resolving Fungal Nomenclature: the Case of Multiple Pathogenic Species in the Genus. *MSphere*, **2017**, 2,	5	74
109	Phylogeny of Opisthokonta and the evolution of multicellularity and complexity in Fungi and Metazoa. *International Journal of Astrobiology*, **2003**, 2, 203-211	1.4	69
108	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**,	11.5	68
107	Genome Diversity, Recombination, and Virulence across the Major Lineages of. *MSphere*, **2016**, 1,	5	67
106	Genome wide association identifies novel loci involved in fungal communication. *PLoS Genetics*, **2013**, 9, e1003669	6	63
105	Massive changes in genome architecture accompany the transition to self-fertility in the filamentous fungus Neurospora tetrasperma. *Genetics*, **2011**, 189, 55-69	4	61
104	Fungal community assembly in drought-stressed sorghum shows stochasticity, selection, and universal ecological dynamics. *Nature Communications*, **2020**, 11, 34	17.4	59
103	Soil isolation and molecular identification of Coccidioides immitis. *Mycologia*, **2000**, 92, 406-410	2.4	58
102	Name changes in medically important fungi and their implications for clinical practice. *Journal of Clinical Microbiology*, **2015**, 53, 1056-62	9.7	54
101	Comparative transcriptomics of the saprobic and parasitic growth phases in Coccidioides spp. *PLoS ONE*, **2012**, 7, e41034	3.7	54
100	Neurospora in temperate forests of western North America. *Mycologia*, **2004**, 96, 66-74	2.4	53

99	The Dynamic Genome and Transcriptome of the Human Fungal Pathogen Blastomyces and Close Relative Emmonsia. *PLoS Genetics*, **2015**, 11, e1005493	6	51
98	18S rRNA gene sequences and supraordinal classification of the Erysiphales. *Mycologia*, **1994**, 86, 212-216	2.4	51
97	Strong succession in arbuscular mycorrhizal fungal communities. *ISME Journal*, **2019**, 13, 214-226	11.9	51
96	Comment on "Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism". *Science*, **2016**, 351, 826	33.3	50
95	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, 735-41	4.4	46
94	Genetic architecture of a reinforced, postmating, reproductive isolation barrier between Neurospora species indicates evolution via natural selection. *PLoS Genetics*, **2011**, 7, e1002204	6	42
93	Independent subtilases expansions in fungi associated with animals. *Molecular Biology and Evolution*, **2011**, 28, 3395-404	8.3	42
92	Passive dust collectors for assessing airborne microbial material. *Microbiome*, **2015**, 3, 46	16.6	41
91	Recombination and genetic differentiation in the mycorrhizal fungus Cenococcum geophilum Fr. *Mycologia*, **2002**, 94, 772-780	2.4	41
90	Glomeromycotina: what is a species and why should we care?. *New Phytologist*, **2018**, 220, 963-967	9.8	40
89	Rhynie chert: a window into a lost world of complex plant-fungus interactions. *New Phytologist*, **2007**, 174, 475-479	9.8	39
88	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	3.7	39
87	Temperature sensitivities of extracellular enzyme V and K across thermal environments. *Global Change Biology*, **2018**, 24, 2884-2897	11.4	36
86	Fungi isolated from Miscanthus and sugarcane: biomass conversion, fungal enzymes, and hydrolysis of plant cell wall polymers. *Biotechnology for Biofuels*, **2015**, 8, 38	7.8	34
85	Microbes and associated soluble and volatile chemicals on periodically wet household surfaces. *Microbiome*, **2017**, 5, 128	16.6	34
84	Aspergillus, its sexual states and the new International Code of Nomenclature. *Mycologia*, **2014**, 106, 1051-62	2.4	34
83	Primers for genotyping single nucleotide polymorphisms and microsatellites in the pathogenic fungus Coccidioides immitis. *Molecular Ecology*, **1999**, 8, 1082-4	5.7	34
82	Mechanisms of Homothallism in Fungi and Transitions between Heterothallism and Homothallism35-57		34

81	Multilocus sequence data reveal extensive phylogenetic species diversity within the Neurospora discreta complex. *Mycologia*, **2006**, 98, 436-446	2.4	32
80	Comparative Phylogenomics of Pathogenic and Nonpathogenic Species. *G3: Genes, Genomes, Genetics*, **2015**, 6, 235-44	3.2	31
79	Extracellular ammonia at sites of pulmonary infection with Coccidioides posadasii contributes to severity of the respiratory disease. *Microbial Pathogenesis*, **2013**, 59-60, 19-28	3.8	31
78	Neurospora in Temperate Forests of Western North America. *Mycologia*, **2004**, 96, 66	2.4	31
77	The endozoan, small-mammal reservoir hypothesis and the life cycle of Coccidioides species. *Medical Mycology*, **2019**, 57, S16-S20	3.9	30
76	Genomic sequencing reveals historical, demographic and selective factors associated with the diversification of the fire-associated fungus Neurospora discreta. *Molecular Ecology*, **2015**, 24, 5657-75	5.7	28
75	Endogenous Small RNA Mediates Meiotic Silencing of a Novel DNA Transposon. *G3: Genes, Genomes, Genetics*, **2015**, 5, 1949-60	3.2	28
74	New findings of Neurospora in Europe and comparisons of diversity in temperate climates on continental scales. *Mycologia*, **2006**, 98, 550-559	2.4	28
73	: more than a node or a foot-shaped basal cell. *Studies in Mycology*, **2021**, 98, 100116	22.2	28
72	Engineering Kluyveromyces marxianus as a Robust Synthetic Biology Platform Host. *MBio*, **2018**, 9,	7.8	28
71	Continental-level population differentiation and environmental adaptation in the mushroom Suillus brevipes. *Molecular Ecology*, **2017**, 26, 2063-2076	5.7	27
70	A set of electrophoretic molecular markers for strain typing and population genetic studies of Histoplasma capsulatum. *Electrophoresis*, **1997**, 18, 1047-53	3.6	27
69	Neurospora in temperate forests of western North America. *Mycologia*, **2004**, 96, 66-74	2.4	26
68	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, 1134-45	8.3	24
67	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	2.4	22
66	Sources of Fungal Genetic Variation and Associating It with Phenotypic Diversity. *Microbiology Spectrum*, **2017**, 5,	8.9	22
65	Mushrooms: morphological complexity in the fungi. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 11655-6	11.5	20
64	Mycothermus thermophilus gen. et comb. nov., a new home for the itinerant thermophile Scytalidium thermophilum (Torula thermophila). *Mycologia*, **2015**, 107, 319-27	2.4	19

63	Lagenidium giganteum pathogenicity in mammals. *Emerging Infectious Diseases*, **2015**, 21, 290-7	10.2	19
62	Article 59: reinterpretation or revision?. *Taxon*, **1992**, 41, 91-98	0.8	19
61	Genomic and fossil windows into the secret lives of the most ancient fungi. *Nature Reviews Microbiology*, **2020**, 18, 717-730	22.2	19
60	Neurospora discreta as a model to assess adaptation of soil fungi to warming. *BMC Evolutionary Biology*, **2015**, 15, 198	3	18
59	Ectomycorrhizal fungal diversity predicted to substantially decline due to climate changes in North American Pinaceae forests. *Journal of Biogeography*, **2020**, 47, 772-782	4.1	17
58	The Evolution of MAT: The Ascomycetes1-18		17
57	Evolution of the Mating-Type Locus: The Basidiomycetes19-34		17
56	Phylogenetic taxon definitions for and. *IMA Fungus*, **2018**, 9, 291-298	6.8	16
55	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, 136-47	4.1	14
54	Genome-resolved metagenomics reveals role of iron metabolism in drought-induced rhizosphere microbiome dynamics. *Nature Communications*, **2021**, 12, 3209	17.4	14
53	Pneumocystis carinii and the ustomycetous red yeast fungi. *Molecular Microbiology*, **1993**, 8, 425-7	4.1	13
52	The Origin of Multiple Mating Types in the Model Mushrooms Coprinopsis cinerea and Schizophyllum commune283-300		13
51	Choosing one name for pleomorphic fungi: The example of Aspergillus versus Eurotium, Neosartorya and Emericella. *Taxon*, **2016**, 65, 593-601	0.8	12
50	Why Sex Is Good: On Fungi and Beyond527-534		12
49	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	3.7	11
48	Evolutionary Perspectives on Human Fungal Pathogens. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 5,	5.4	11
47	Dikaryons, Diploids, and Evolution333-348		11
46	Holo-omics for deciphering plant-microbiome interactions. *Microbiome*, **2021**, 9, 69	16.6	11

45	(117119) Proposals to make the prepublication 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	0.8	9
44	Mating in the Smut Fungi: From a to b to the Downstream Cascades377-387		9
43	(2441) Proposal to conserve the name Aspergillus (Fungi: Eurotiales: Trichocomaceae) with a conserved type to maintain also the name Eurotium. *Taxon*, **2016**, 65, 631-632	0.8	9
42	Sexual Reproduction and Significance of MAT in the Aspergilli123-142		8
41	Fungal Signature of Moisture Damage in Buildings: Identification by Targeted and Untargeted Approaches with Mycobiome Data. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	7
40	Temperature acclimation and adaptation of enzyme physiology in Neurospora discreta. *Fungal Ecology*, **2018**, 35, 78-86	4.1	7
39	Fungal species: thoughts on their recognition, maintenance and selection313-339		7
38	Sex in the Rest: Mysterious Mating in the Chytridiomycota and Zygomycota405-418		7
37	The mat Genes of Schizosaccharomyces pombe: Expression, Homothallic Switch, and Silencing143-157		7
36	Description of three novel Lagenidium (Oomycota) species causing infection in mammals. *Revista Iberoamericana De Micologia*, **2016**, 33, 83-91	1.6	7
35	Phylogenetic and physiological traits of oomycetes originally identified as from fly and mosquito larvae. *Mycologia*, **2019**, 111, 408-422	2.4	6
34	Ascomycetes: the Candida MAT Locus: Comparing MAT in the Genomes of Hemiascomycetous Yeasts247-263		6
33	Analysis of Mating-Type Locus Organization and Synteny in Mushroom Fungi: Beyond Model Species317-331		6
32	Neurospora from Natural Populations: Population Genomics Insights into the Life History of a Model Microbial Eukaryote. *Methods in Molecular Biology*, **2020**, 2090, 313-336	1.4	6
31	Evolution of Human-Pathogenic Fungi: Phylogenies and Species113-P1		5
30	MAT and Its Role in the Homothallic Ascomycete Sordaria macrospora171-188		5
29	Trisporic Acid and Mating in Zygomycetes431-443		5
28	Cochliobolus and Podospora: Mechanisms of Sex Determination and the Evolution of Reproductive Lifestyle91-121		5

27	Decisions, Decisions: Donor Preference during Budding Yeast Mating-Type Switching159-170		5
26	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	7.6	5
25	Agricultural Soil Management Practices Differentially Shape the Bacterial and Fungal Microbiome of. *Applied and Environmental Microbiology*, **2020**,	4.8	5
24	Sexual Reproduction in Plant Pathogenic Oomycetes: Biology and Impact on Disease445-458		4
23	The poetry of mycological accomplishment and challenge. *Fungal Biology Reviews*, **2011**, 25, 3-13	6.8	3
22	Pheromones and Pheromone Receptors in Schizophyllum commune Mate Recognition: Retrospective of a Half-Century of Progress and a Look Ahead301-315		3
21	Mating-Type Locus Control of Cell Identity59-73		3
20	Sources of Fungal Genetic Variation and Associating It with Phenotypic Diversity **2017**, 635-655		2
19	Appropriately Sized Genera and Appropriately Ranked Higher Taxa. *IMA Fungus*, **2014**, 5, A1-A2	6.8	2
18	MAT, Mating, Switching, and Pathogenesis in Candida albicans, Candida dubliniensis, and Candida glabrata213-234		2
17	History of the Mating Types in Ustilago maydis349-375		2
16	How the Genome Is Organized in the Glomeromycota419-430		2
15	Why Bother with Sex? Answers from Experiments with Yeast and Other Organisms489-506		2
14	Cloning the Mating-Type Genes of Schizophyllum commune: A Historical Perspective **2014**, 265-282		1
13	Successional adaptive strategies revealed by correlating arbuscular mycorrhizal fungal abundance with host plant gene expression.. *Molecular Ecology*, **2022**,	5.7	1
12	The Evolutionary Implications of an Asexual Lifestyle Manifested by Penicillium marneffei201-212		1
11	Bipolar and Tetrapolar Mating Systems in the Ustilaginales389-404		1
10	Isolated from Bats Captured in Mexico Form a Sister Group to North American Class 2 Clade. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	1

9	Keep your friends close: Host compartmentalisation of microbial communities facilitates decoupling from effects of habitat fragmentation. *Ecology Letters*, **2021**, 24, 2674-2686	10	0
8	A century later, resolving Joseph Grinnell's striking case of adventitious coloration *Auk*, **2017**, 134, 551-552	2.1	
7	Kenneth Wells, 24 July 1927-19 July 2016. *Mycologia*, **2019**, 111, 525-528	2.4	
6	O'Neil Ray Collins, 1931 1989. *Mycologia*, **1993**, 85, 868-872	2.4	
5	Evolution of Silencing at the Mating-Type Loci in Hemiascomycetes189-200		
4	Rewiring Transcriptional Circuitry: Mating-Type Regulation in Saccharomyces cerevisiae and Candida albicans as a Model for Evolution75-89		
3	Sex in Natural Populations of Cryptococcus gattii477-488		
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