Jonathan S Schilling

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58 papers	2,640 citations	19 h-index	51 g-index
62 ext. papers	3,827 ext. citations	4.8 avg, IF	5.32 L-index

#	Paper	IF	Citations
58	FUNGuild: An open annotation tool for parsing fungal community datasets by ecological guild. *Fungal Ecology*, **2016**, 20, 241-248	4.1	1453
57	Widespread Polycistronic Transcripts in Fungi Revealed by Single-Molecule mRNA Sequencing. *PLoS ONE*, **2015**, 10, e0132628	3.7	218
56	Localizing gene regulation reveals a staggered wood decay mechanism for the brown rot fungus Postia placenta. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10968-73	11.5	105
55	Fungal functional ecology: bringing a trait-based approach to plant-associated fungi. *Biological Reviews*, **2020**, 95, 409-433	13.5	79
54	Fungal endophytes as priority colonizers initiating wood decomposition. *Functional Ecology*, **2017**, 31, 407-418	5.6	56
53	Lignocellulose modifications by brown rot fungi and their effects, as pretreatments, on cellulolysis. *Bioresource Technology*, **2012**, 116, 147-54	11	52
52	Synergy between pretreatment lignocellulose modifications and saccharification efficiency in two brown rot fungal systems. *Applied Microbiology and Biotechnology*, **2009**, 84, 465-75	5.7	50
51	Distinct Growth and Secretome Strategies for Two Taxonomically Divergent Brown Rot Fungi. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	41
50	Oxalate regulation by two brown rot fungi decaying oxalate-amended and non-amended wood. *Holzforschung*, **2005**, 59, 681-688	2	37
49	Signature wood modifications reveal decomposer community history. *PLoS ONE*, **2015**, 10, e0120679	3.7	36
48	Ecological and functional effects of fungal endophytes on wood decomposition. *Functional Ecology*, **2018**, 32, 181-191	5.6	31
47	Forest composition modifies litter dynamics and decomposition in regenerating tropical dry forest. *Oecologia*, **2016**, 182, 287-97	2.9	28
46	Coupling Secretomics with Enzyme Activities To Compare the Temporal Processes of Wood Metabolism among White and Brown Rot Fungi. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	28
45	Competition between two wood-degrading fungi with distinct influences on residues. *FEMS Microbiology Ecology*, **2012**, 79, 109-17	4.3	27
44	Gene Regulation Shifts Shed Light on Fungal Adaption in Plant Biomass Decomposers. *MBio*, **2019**, 10,	7.8	27
43	Role of carbon source in the shift from oxidative to hydrolytic wood decomposition by Postia placenta. *Fungal Genetics and Biology*, **2017**, 106, 1-8	3.9	26
42	Influence of Hyphal Inoculum potential on the Competitive Success of Fungi Colonizing Wood. *Microbial Ecology*, **2015**, 69, 758-67	4.4	23

41	Using Wood Rot Phenotypes to Illuminate the "Gray" Among Decomposer Fungi. *Frontiers in Microbiology*, **2020**, 11, 1288	5.7	19
40	Metal accumulation without enhanced oxalate secretion in wood degraded by brown rot fungi. *Applied and Environmental Microbiology*, **2006**, 72, 5662-5	4.8	19
39	A genomics-informed study of oxalate and cellulase regulation by brown rot wood-degrading fungi. *Fungal Genetics and Biology*, **2018**, 112, 64-70	3.9	18
38	Quantitative PCR for measuring biomass of decomposer fungi in planta. *Fungal Ecology*, **2014**, 7, 39-46	4.1	18
37	Potential of decaying wood to restore root-available base cations in depleted forest soils. *Canadian Journal of Forest Research*, **2012**, 42, 1015-1024	1.9	18
36	Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus Fomitopsis pinicola. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	17
35	Colocalizing incipient reactions in wood degraded by the brown rot fungus Postia placenta. *International Biodeterioration and Biodegradation*, **2013**, 83, 56-62	4.8	16
34	Initial white rot type dominance of wood decomposition and its functional consequences in a regenerating tropical dry forest. *Soil Biology and Biochemistry*, **2015**, 88, 58-68	7.5	15
33	Comparing lignocellulose physiochemistry after decomposition by brown rot fungi with distinct evolutionary origins. *Environmental Microbiology*, **2015**, 17, 4885-97	5.2	15
32	High-performance liquid chromatographic analysis of soluble and total oxalate in Ca- and Mg-amended liquid cultures of three wood decay fungi. *Holzforschung*, **2004**, 58, 682-687	2	15
31	Oxidative Damage Control during Decay of Wood by Brown Rot Fungus Using Oxygen Radicals. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	15
30	Concentrations of Ca and Mg in early stages of sapwood decay in red spruce, eastern hemlock, red maple, and paper birch. *Canadian Journal of Forest Research*, **2007**, 37, 957-965	1.9	14
29	Assessment of saccharification efficacy in the cellulase system of the brown rot fungus Gloeophyllum trabeum. *Applied Microbiology and Biotechnology*, **2010**, 86, 1785-93	5.7	13
28	Using a grass substrate to compare decay among two clades of brown rot fungi. *Applied Microbiology and Biotechnology*, **2013**, 97, 8831-40	5.7	12
27	Effects of calcium-based materials and iron impurities on wood degradation by the brown rot fungus Serpula lacrymans. *Holzforschung*, **2010**, 64,	2	11
26	Functional convergence in the decomposition of fungal necromass in soil and wood. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	11
25	Evolution of substrate-specific gene expression and RNA editing in brown rot wood-decaying fungi. *ISME Journal*, **2019**, 13, 1391-1403	11.9	10
24	Experimental nitrogen fertilisation globally accelerates, then slows decomposition of leaf litter. *Ecology Letters*, **2021**, 24, 802-811	10	10

23	Iron and calcium translocation from pure gypsum and iron-amended gypsum by two brown rot fungi and a white rot fungus. *Holzforschung*, **2008**, 62,	2	9
22	Choice tests and neighbor effects during fungal brown rot of copper- and non-treated wood. *International Biodeterioration and Biodegradation*, **2012**, 74, 7-10	4.8	7
21	Evaluation of colorimetric assays for determination of HOin planta during fungal wood decomposition. *Journal of Microbiological Methods*, **2018**, 145, 10-13	2.8	6
20	Reference genes for accurate normalization of gene expression in wood-decomposing fungi. *Fungal Genetics and Biology*, **2019**, 123, 33-40	3.9	5
19	Stem-inhabiting fungal communities differ between intact and snapped trees after hurricane Maria in a Puerto Rican tropical dry forest. *Forest Ecology and Management*, **2020**, 475, 118350	3.9	4
18	Harnessing fungi to mitigate CH in natural and engineered systems. *Applied Microbiology and Biotechnology*, **2018**, 102, 7365-7375	5.7	4
17	Functional Genomics, Transcriptomics, and Proteomics Reveal Distinct Combat Strategies Between Lineages of Wood-Degrading Fungi With Redundant Wood Decay Mechanisms. *Frontiers in Microbiology*, **2020**, 11, 1646	5.7	3
16	Brown Rot-Type Fungal Decomposition of Sorghum Bagasse: Variable Success and Mechanistic Implications. *International Journal of Microbiology*, **2018**, 2018, 4961726	3.6	3
15	A Fungal Secretome Adapted for Stress Enabled a Radical Wood Decay Mechanism. *MBio*, **2021**, 12, e0204021	7.8	3
14	Coarse woody debris decomposition assessment tool: Model development and sensitivity analysis. *PLoS ONE*, **2021**, 16, e0251893	3.7	2
13	Towards an Understanding of Oxidative Damage in an L-Arabinofuranosidase of Trichoderma reesei: a Molecular Dynamics Approach. *Applied Biochemistry and Biotechnology*, **2021**, 193, 3287-3300	3.2	2
12	Bait and scrape: An approach for assessing biofilm microbial communities on organic media used for gas-phase biofiltration. *Ecological Engineering*, **2016**, 91, 50-57	3.9	2
11	Retracted and Republished from: "Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus ". *Applied and Environmental Microbiology*, **2021**, 87, e0032921	4.8	2
10	Fluorescence in situ mRNA hybridization for gene expression detection in a wood decay fungus. *International Biodeterioration and Biodegradation*, **2019**, 143, 104731	4.8	1
9	Coarse Woody Debris Decomposition Assessment Tool: Model validation and application. *PLoS ONE* , **2021**, 16, e0254408	3.7	1
8	Wood-decay type and fungal guild dominance across a North American log transplant experiment. *Fungal Ecology*, **2022**, 101151	4.1	1
7	Distinctive carbon repression effects in the carbohydrate-selective wood decay fungus Rhodonia placenta.. *Fungal Genetics and Biology*, **2022**, 103673	3.9	0
6	High-efficiency methane capture by living fungi and dried fungal hyphae (necromass). *Journal of Environmental Quality*, **2020**, 49, 1467-1476	3.4	0

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5	Using aggregated field collection data and the novel r package fungarium to investigate fungal fire association. *Mycologia*, **2021**, 113, 842-855	2.4	0
4	Early chemical changes during wood decomposition are controlled by fungal communities inhabiting stems at treefall in a tropical dry forest. *Plant and Soil*, **2021**, 466, 373-389	4.2	0
3	Capturing an Early Gene Induction Event during Wood Decay by the Brown Rot Fungus .. *Applied and Environmental Microbiology*, **2022**, e0018822	4.8	0
2	Applying trait-function relationships for microbial plant decomposition to predict medium longevity in pollution control biofilters. *Applied Microbiology and Biotechnology*, **2016**, 100, 2843-53	5.7	
1	Retraction for Wu et al., "Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus ". *Applied and Environmental Microbiology*, **2021**, 87, e0033021	4.8	