

Jonathan S Schilling

List of Publications by Year in Descending Order

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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	Distinctive carbon repression effects in the carbohydrate-selective wood decay fungus <i>Rhodonia placenta</i> . <i>Fungal Genetics and Biology</i> , 2022 , 103673	3.9	0
57	Wood-decay type and fungal guild dominance across a North American log transplant experiment. <i>Fungal Ecology</i> , 2022 , 101151	4.1	1
56	Capturing an Early Gene Induction Event during Wood Decay by the Brown Rot Fungus .. <i>Applied and Environmental Microbiology</i> , 2022 , e0018822	4.8	0
55	Using aggregated field collection data and the novel <i>r</i> package fungarium to investigate fungal fire association. <i>Mycologia</i> , 2021 , 113, 842-855	2.4	0
54	Coarse woody debris decomposition assessment tool: Model development and sensitivity analysis. <i>PLoS ONE</i> , 2021 , 16, e0251893	3.7	2
53	Towards an Understanding of Oxidative Damage in an β -L-Arabinofuranosidase of <i>Trichoderma reesei</i> : a Molecular Dynamics Approach. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 3287-3300	3.2	2
52	Retraction for Wu et al., "Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus ". <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0033021	4.8	
51	Early chemical changes during wood decomposition are controlled by fungal communities inhabiting stems at treefall in a tropical dry forest. <i>Plant and Soil</i> , 2021 , 466, 373-389	4.2	0
50	Experimental nitrogen fertilisation globally accelerates, then slows decomposition of leaf litter. <i>Ecology Letters</i> , 2021 , 24, 802-811	10	10
49	Retracted and Republished from: "Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus ". <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0032921	4.8	2
48	Coarse Woody Debris Decomposition Assessment Tool: Model validation and application. <i>PLoS ONE</i> , 2021 , 16, e0254408	3.7	1
47	A Fungal Secretome Adapted for Stress Enabled a Radical Wood Decay Mechanism. <i>MBio</i> , 2021 , 12, e0204021	4.1	3
46	Stem-inhabiting fungal communities differ between intact and snapped trees after hurricane Maria in a Puerto Rican tropical dry forest. <i>Forest Ecology and Management</i> , 2020 , 475, 118350	3.9	4
45	Using Wood Rot Phenotypes to Illuminate the "Gray" Among Decomposer Fungi. <i>Frontiers in Microbiology</i> , 2020 , 11, 1288	5.7	19
44	Functional convergence in the decomposition of fungal necromass in soil and wood. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	11
43	Fungal functional ecology: bringing a trait-based approach to plant-associated fungi. <i>Biological Reviews</i> , 2020 , 95, 409-433	13.5	79
42	Functional Genomics, Transcriptomics, and Proteomics Reveal Distinct Combat Strategies Between Lineages of Wood-Degrading Fungi With Redundant Wood Decay Mechanisms. <i>Frontiers in Microbiology</i> , 2020 , 11, 1646	5.7	3

41	High-efficiency methane capture by living fungi and dried fungal hyphae (necromass). <i>Journal of Environmental Quality</i> , 2020 , 49, 1467-1476	3.4	0
40	Evolution of substrate-specific gene expression and RNA editing in brown rot wood-decaying fungi. <i>ISME Journal</i> , 2019 , 13, 1391-1403	11.9	10
39	Fluorescence in situ mRNA hybridization for gene expression detection in a wood decay fungus. <i>International Biodeterioration and Biodegradation</i> , 2019 , 143, 104731	4.8	1
38	Gene Regulation Shifts Shed Light on Fungal Adaption in Plant Biomass Decomposers. <i>MBio</i> , 2019 , 10,	7.8	27
37	Reference genes for accurate normalization of gene expression in wood-decomposing fungi. <i>Fungal Genetics and Biology</i> , 2019 , 123, 33-40	3.9	5
36	A genomics-informed study of oxalate and cellulase regulation by brown rot wood-degrading fungi. <i>Fungal Genetics and Biology</i> , 2018 , 112, 64-70	3.9	18
35	Harnessing fungi to mitigate CH in natural and engineered systems. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 7365-7375	5.7	4
34	Coupling Secretomics with Enzyme Activities To Compare the Temporal Processes of Wood Metabolism among White and Brown Rot Fungi. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	28
33	Substrate-Specific Differential Gene Expression and RNA Editing in the Brown Rot Fungus <i>Fomitopsis pinicola</i> . <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	17
32	Evaluation of colorimetric assays for determination of HO in planta during fungal wood decomposition. <i>Journal of Microbiological Methods</i> , 2018 , 145, 10-13	2.8	6
31	Ecological and functional effects of fungal endophytes on wood decomposition. <i>Functional Ecology</i> , 2018 , 32, 181-191	5.6	31
30	Oxidative Damage Control during Decay of Wood by Brown Rot Fungus Using Oxygen Radicals. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	15
29	Brown Rot-Type Fungal Decomposition of Sorghum Bagasse: Variable Success and Mechanistic Implications. <i>International Journal of Microbiology</i> , 2018 , 2018, 4961726	3.6	3
28	Distinct Growth and Secretome Strategies for Two Taxonomically Divergent Brown Rot Fungi. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	41
27	Role of carbon source in the shift from oxidative to hydrolytic wood decomposition by <i>Postia placenta</i> . <i>Fungal Genetics and Biology</i> , 2017 , 106, 1-8	3.9	26
26	Fungal endophytes as priority colonizers initiating wood decomposition. <i>Functional Ecology</i> , 2017 , 31, 407-418	5.6	56
25	FUNGuild: An open annotation tool for parsing fungal community datasets by ecological guild. <i>Fungal Ecology</i> , 2016 , 20, 241-248	4.1	1453
24	Localizing gene regulation reveals a staggered wood decay mechanism for the brown rot fungus <i>Postia placenta</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10968-73	11.5	105

23	Forest composition modifies litter dynamics and decomposition in regenerating tropical dry forest. <i>Oecologia</i> , 2016 , 182, 287-97	2.9	28
22	Applying trait-function relationships for microbial plant decomposition to predict medium longevity in pollution control biofilters. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2843-53	5.7	
21	Bait and scrape: An approach for assessing biofilm microbial communities on organic media used for gas-phase biofiltration. <i>Ecological Engineering</i> , 2016 , 91, 50-57	3.9	2
20	Initial white rot type dominance of wood decomposition and its functional consequences in a regenerating tropical dry forest. <i>Soil Biology and Biochemistry</i> , 2015 , 88, 58-68	7.5	15
19	Influence of Hyphal Inoculum potential on the Competitive Success of Fungi Colonizing Wood. <i>Microbial Ecology</i> , 2015 , 69, 758-67	4.4	23
18	Comparing lignocellulose physiochemistry after decomposition by brown rot fungi with distinct evolutionary origins. <i>Environmental Microbiology</i> , 2015 , 17, 4885-97	5.2	15
17	Signature wood modifications reveal decomposer community history. <i>PLoS ONE</i> , 2015 , 10, e0120679	3.7	36
16	Widespread Polycistronic Transcripts in Fungi Revealed by Single-Molecule mRNA Sequencing. <i>PLoS ONE</i> , 2015 , 10, e0132628	3.7	218
15	Quantitative PCR for measuring biomass of decomposer fungi in planta. <i>Fungal Ecology</i> , 2014 , 7, 39-46	4.1	18
14	Colocalizing incipient reactions in wood degraded by the brown rot fungus <i>Postia placenta</i> . <i>International Biodeterioration and Biodegradation</i> , 2013 , 83, 56-62	4.8	16
13	Using a grass substrate to compare decay among two clades of brown rot fungi. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8831-40	5.7	12
12	Lignocellulose modifications by brown rot fungi and their effects, as pretreatments, on cellulolysis. <i>Bioresour. Technol.</i> , 2012 , 116, 147-54	11	52
11	Choice tests and neighbor effects during fungal brown rot of copper- and non-treated wood. <i>International Biodeterioration and Biodegradation</i> , 2012 , 74, 7-10	4.8	7
10	Potential of decaying wood to restore root-available base cations in depleted forest soils. <i>Canadian Journal of Forest Research</i> , 2012 , 42, 1015-1024	1.9	18
9	Competition between two wood-degrading fungi with distinct influences on residues. <i>FEMS Microbiology Ecology</i> , 2012 , 79, 109-17	4.3	27
8	Effects of calcium-based materials and iron impurities on wood degradation by the brown rot fungus <i>Serpula lacrymans</i> . <i>Holzforschung</i> , 2010 , 64,	2	11
7	Assessment of saccharification efficacy in the cellulase system of the brown rot fungus <i>Gloeophyllum trabeum</i> . <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 1785-93	5.7	13
6	Synergy between pretreatment lignocellulose modifications and saccharification efficiency in two brown rot fungal systems. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 465-75	5.7	50

5	Iron and calcium translocation from pure gypsum and iron-amended gypsum by two brown rot fungi and a white rot fungus. <i>Holzforschung</i> , 2008 , 62,	2	9
4	Concentrations of Ca and Mg in early stages of sapwood decay in red spruce, eastern hemlock, red maple, and paper birch. <i>Canadian Journal of Forest Research</i> , 2007 , 37, 957-965	1.9	14
3	Metal accumulation without enhanced oxalate secretion in wood degraded by brown rot fungi. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5662-5	4.8	19
2	Oxalate regulation by two brown rot fungi decaying oxalate-amended and non-amended wood. <i>Holzforschung</i> , 2005 , 59, 681-688	2	37
1	High-performance liquid chromatographic analysis of soluble and total oxalate in Ca- and Mg-amended liquid cultures of three wood decay fungi. <i>Holzforschung</i> , 2004 , 58, 682-687	2	15