

Myron L Smith

List of Publications by Year in descending order

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92
papers

3,127
citations

159585

30
h-index

168389

53
g-index

94
all docs

94
docs citations

94
times ranked

3035
citing authors

#	ARTICLE	IF	CITATIONS
1	The fungus <i>Armillaria bulbosa</i> is among the largest and oldest living organisms. <i>Nature</i> , 1992, 356, 428-431.	27.8	612
2	Molecular Characterization of Vegetative Incompatibility Genes That Restrict Hypovirus Transmission in the Chestnut Blight Fungus <i>Cryphonectria parasitica</i> . <i>Genetics</i> , 2012, 190, 113-127.	2.9	128
3	Programmed cell death correlates with virus transmission in a filamentous fungus. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2269-2276.	2.6	126
4	Restriction Fragment Polymorphisms in Biological Species of <i>Armillaria Mellea</i> . <i>Mycologia</i> , 1987, 79, 69-76.	1.9	92
5	Restriction fragment length polymorphisms in mitochondrial DNAs of <i>Armillaria</i> : identification of North American biological species. <i>Mycological Research</i> , 1989, 93, 247-256.	2.5	83
6	Structure and function of a mating-type gene from the homothallic species <i>Neurospora africana</i> . <i>Molecular Genetics and Genomics</i> , 1994, 244, 401-409.	2.4	83
7	Disruption of protein synthesis as antifungal mode of action by chitosan. <i>International Journal of Food Microbiology</i> , 2013, 164, 108-112.	4.7	82
8	The Product of the <i>het-C</i> Heterokaryon Incompatibility Gene of <i>Neurospora crassa</i> Has Characteristics of a Glycine-Rich Cell Wall Protein. <i>Genetics</i> , 1996, 143, 1589-1600.	2.9	81
9	Isolation of an antimicrobial compound from <i>Impatiens balsamina</i> L. using bioassay-guided fractionation. <i>Phytotherapy Research</i> , 2001, 15, 676-680.	5.8	80
10	Caterpillar talk: Acoustically mediated territoriality in larval Lepidoptera. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11371-11375.	7.1	75
11	Antimicrobial activity of extracts of eastern North American hardwood trees and relation to traditional medicine. <i>Journal of Ethnopharmacology</i> , 2000, 73, 161-170.	4.1	72
12	The copy-number of plasmids and other genetic elements can be determined by SYBR-Green-based quantitative real-time PCR. <i>Journal of Microbiological Methods</i> , 2006, 65, 476-487.	1.6	69
13	Inhibition of human pathogenic fungi by members of Zingiberaceae used by the Kenyah (Indonesian) Tj ETQq1 1 0.784314 rgBT /Over 4.1 67		
14	Antifungal activity of extracts from medicinal plants used by First Nations Peoples of eastern Canada. <i>Journal of Ethnopharmacology</i> , 2000, 73, 191-198.	4.1	66
15	Light-Mediated Antifungal Activity of Echinacea Extracts. <i>Planta Medica</i> , 2000, 66, 241-244.	1.3	59
16	The evolutionary origins of ritualized acoustic signals in caterpillars. <i>Nature Communications</i> , 2010, 1, 4.	12.8	58
17	The Antifungal Eugenol Perturbs Dual Aromatic and Branched-Chain Amino Acid Permeases in the Cytoplasmic Membrane of Yeast. <i>PLoS ONE</i> , 2013, 8, e76028.	2.5	58
18	Restriction Fragment Polymorphisms in Biological Species of <i>Armillaria mellea</i> . <i>Mycologia</i> , 1987, 79, 69.	1.9	55

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19	Experimental evolution of bet hedging under manipulated environmental uncertainty in <i>Neurospora crassa</i> . Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140706.	2.6	55
20	Colony size measurement of the yeast gene deletion strains for functional genomics. BMC Bioinformatics, 2007, 8, 117.	2.6	52
21	Molecular characterization of mating-type loci in selected homothallic species of <i>Neurospora</i> , <i>Gelasinospora</i> and <i>Anixiella</i> . Mycological Research, 1994, 98, 1309-1316.	2.5	50
22	Zinc oxide and silver nanoparticles toxicity in the baker's yeast, <i>Saccharomyces cerevisiae</i> . PLoS ONE, 2018, 13, e0193111.	2.5	42
23	Phytochemistry and Antifungal Properties of the Newly Discovered Tree <i>Pleodendron costaricense</i> . Journal of Natural Products, 2006, 69, 1005-1009.	3.0	41
24	Clonal evolution and genome stability in a 2500-year-old fungal individual. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20182233.	2.6	39
25	Antifungal and antioxidant activities of the phytomedicine pipsissewa, <i>Chimaphila umbellata</i> . Phytochemistry, 2008, 69, 738-746.	2.9	38
26	Genetic exchange between diploid and haploid mycelia of <i>Armillaria gallica</i> . Mycological Research, 1995, 99, 641-647.	2.5	36
27	Grunting for worms: seismic vibrations cause <i>Diplocardia</i> earthworms to emerge from the soil. Biology Letters, 2009, 5, 16-19.	2.3	35
28	Genome Sequence of the Chestnut Blight Fungus <i>Cryphonectria parasitica</i> EP155: A Fundamental Resource for an Archetypical Invasive Plant Pathogen. Phytopathology, 2020, 110, 1180-1188.	2.2	34
29	Antifungal constituents of Northern prickly ash, <i>Zanthoxylum americanum</i> Mill.. Phytomedicine, 2005, 12, 370-377.	5.3	33
30	Escape From het-6 Incompatibility in <i>Neurospora crassa</i> Partial Diploids Involves Preferential Deletion Within the Ectopic Segment. Genetics, 1996, 144, 523-531.	2.9	33
31	Molecular and Functional Analyses of Incompatibility Genes at het-6 in a Population of <i>Neurospora crassa</i> . Fungal Genetics and Biology, 2000, 30, 197-205.	2.1	32
32	On the independence of barrage formation and heterokaryon incompatibility in <i>Neurospora crassa</i> . Fungal Genetics and Biology, 2003, 38, 209-219.	2.1	32
33	Tests of the antibiotic properties of the invasive vine <i>Vincetoxicum rossicum</i> against bacteria, fungi and insects. Biochemical Systematics and Ecology, 2008, 36, 383-391.	1.3	32
34	Differentiation between subpopulations of a polychromatic damselfly with respect to morph frequencies, but not neutral genetic markers. Molecular Ecology, 2003, 12, 3505-3513.	3.9	31
35	A Nonself Recognition Gene Complex in <i>Neurospora crassa</i> . Genetics, 2006, 173, 1991-2004.	2.9	30
36	Vibration detection and discrimination in the masked birch caterpillar (<i>Drepana arcuata</i>). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 325-335.	1.6	30

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37	<i>Echinacea</i> biotechnology: advances, commercialization and future considerations. <i>Pharmaceutical Biology</i> , 2018, 56, 485-494.	2.9	29
38	A global investigation of gene deletion strains that affect premature stop codon bypass in yeast, <i>Saccharomyces cerevisiae</i> . <i>Molecular BioSystems</i> , 2014, 10, 916-924.	2.9	27
39	Microbial inhibitors of the fungus <i>Pseudogymnoascus destructans</i> , the causal agent of white-nose syndrome in bats. <i>PLoS ONE</i> , 2017, 12, e0179770.	2.5	27
40	Heterokaryon incompatibility function of barrage-associated vegetative incompatibility genes (vic) in <i>Cryphonectria parasitica</i> . <i>Mycologia</i> , 2006, 98, 43-50.	1.9	26
41	Large-scale investigation of oxygen response mutants in <i>Saccharomyces cerevisiae</i> . <i>Molecular BioSystems</i> , 2013, 9, 1351.	2.9	24
42	Thymol antifungal mode of action involves telomerase inhibition. <i>Medical Mycology</i> , 2013, 51, 826-834.	0.7	22
43	Determining the environmental fate of a filamentous fungus, <i>Trichoderma reesei</i> , in laboratory-contained intact soil-core microcosms using competitive PCR and viability plating. <i>Canadian Journal of Microbiology</i> , 2004, 50, 623-631.	1.7	18
44	Disruption of fungal cell wall by antifungal <i>Echinacea</i> extracts. <i>Medical Mycology</i> , 2010, 48, 949-958.	0.7	18
45	Alkamides from <i>Echinacea</i> disrupt the fungal cell wall-membrane complex. <i>Phytomedicine</i> , 2014, 21, 435-442.	5.3	18
46	Inhibition of DNA Polymerization and Antifungal Specificity of Furanocoumarins Present in Traditional Medicines. <i>Photochemistry and Photobiology</i> , 2004, 79, 506.	2.5	17
47	Characterization of Human Antigenic Proteins SchS21 and SchS34 from <i>Stachybotrys chartarum</i> . <i>International Archives of Allergy and Immunology</i> , 2011, 155, 74-85.	2.1	17
48	Real-time fluorescence-based detection of furanocoumarin photoadducts of DNA. <i>Phytochemical Analysis</i> , 2008, 19, 342-347.	2.4	15
49	The sensitivity of the yeast, <i>Saccharomyces cerevisiae</i> , to acetic acid is influenced by <i>DOM34</i> and <i>RPL36A</i> . <i>PeerJ</i> , 2017, 5, e4037.	2.0	15
50	Mitochondrial DNAs of the fungus <i>Armillaria ostoyae</i> : restriction map and length variation. <i>Current Genetics</i> , 1994, 25, 545-553.	1.7	14
51	Heterokaryon incompatibility function of barrage-associated vegetative incompatibility genes (vic) in <i>Cryphonectria parasitica</i> . <i>Mycologia</i> , 2006, 98, 43-50.	1.9	14
52	Balancing selection at nonself recognition loci in the chestnut blight fungus, <i>Cryphonectria parasitica</i> , demonstrated by trans-species polymorphisms, positive selection, and even allele frequencies. <i>Heredity</i> , 2018, 121, 511-523.	2.6	14
53	Antifungal Saponins from the Maya Medicinal Plant <i>Cestrum schlechtendahlia</i> G. Don (Solanaceae). <i>Phytotherapy Research</i> , 2016, 30, 439-446.	5.8	13
54	Diverse interactions mediate asymmetric incompatibility by the het-6 supergene complex in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2012, 49, 65-73.	2.1	12

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55	Development of AFLP-derived, functionally specific markers for environmental persistence studies of fungal strains. <i>Canadian Journal of Microbiology</i> , 2006, 52, 451-461.	1.7	11
56	Polymorphic microsatellite loci optimised for studies on the convict cichlid fish (<i>Amatitlania siquia</i>). <i>Environmental Biology of Fishes</i> , 2011, 92, 261-266.	1.0	11
57	Genetic evidence for mixed broods and extra-pair matings in a socially monogamous biparental cichlid fish. <i>Behaviour</i> , 2015, 152, 1507-1526.	0.8	11
58	Soil invertebrate toxicity and bioaccumulation of nano copper oxide and copper sulphate in soils, with and without biosolids amendment. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112222.	6.0	11
59	Remediating Office Environments of Spore-Forming Bacteria. <i>Journal of Occupational and Environmental Hygiene</i> , 2010, 7, 585-592.	1.0	10
60	Genomic Identification of the TOR Signaling Pathway as a Target of the Plant Alkaloid Antofine in the Phytopathogen <i>Fusarium graminearum</i> . <i>MBio</i> , 2019, 10, .	4.1	10
61	Volatile organic compounds kill the white-nose syndrome fungus, <i>Pseudogymnoascus destructans</i> , in hibernaculum sediment. <i>Canadian Journal of Microbiology</i> , 2020, 66, 593-599.	1.7	10
62	Identification and application of AFLP-derived genetic markers for quantitative PCR-based tracking of <i>Bacillus</i> and <i>Paenibacillus</i> spp. released in soil. <i>Canadian Journal of Microbiology</i> , 2009, 55, 1166-1175.	1.7	9
63	Transcriptome analysis of a social caterpillar, <i>Drepana arcuata</i> : De novo assembly, functional annotation and developmental analysis. <i>PLoS ONE</i> , 2020, 15, e0234903.	2.5	9
64	Sensitivity of yeast to lithium chloride connects the activity of YTA6 and YPR096C to translation of structured mRNAs. <i>PLoS ONE</i> , 2020, 15, e0235033.	2.5	9
65	Mode of action of nisin on <i>Escherichia coli</i> . <i>Canadian Journal of Microbiology</i> , 2020, 66, 161-168.	1.7	8
66	Lithium Chloride Sensitivity in Yeast and Regulation of Translation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5730.	4.1	8
67	A Broad Review of Soybean Research on the Ongoing Race to Overcome Soybean Cyst Nematode. <i>Biology</i> , 2022, 11, 211.	2.8	8
68	Secondary Assays for Testing the Mode of Action of Natural Products with Bioactivity Against Fungi. <i>Pharmaceutical Biology</i> , 2008, 46, 16-25.	2.9	4
69	Elimination of Bioweapons Agents from Forensic Samples During Extraction of Human DNA. <i>Journal of Forensic Sciences</i> , 2014, 59, 1530-1540.	1.6	4
70	Propionic acid disrupts endocytosis, cell cycle, and cellular respiration in yeast. <i>BMC Research Notes</i> , 2021, 14, 335.	1.4	4
71	Transcriptome analysis implicates secondary metabolite production, redox reactions, and programmed cell death during allorecognition in <i>Cryphonectria parasitica</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, 1-13.	1.8	4
72	Nonself Recognition Through Intermolecular Disulfide Bond Formation of Ribonucleotide Reductase in <i>Neurospora</i> . <i>Genetics</i> , 2013, 193, 1175-1183.	2.9	3

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73	Metabolism of n-C10 and n-C11 fatty acids by <i>Trichoderma koningii</i> , <i>Penicillium janthinellum</i> and their mixed culture: I. Biomass and CO ₂ production, and allocation of intracellular lipids. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 945-954.	1.5	3
74	Metabolism of n-C11 fatty acid fed to <i>Trichoderma koningii</i> and <i>Penicillium janthinellum</i> II: Production of intracellular and extracellular lipids. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 955-965.	1.5	3
75	A metabolomic study of vegetative incompatibility in <i>Cryphonectria parasitica</i> . <i>Fungal Genetics and Biology</i> , 2021, 157, 103633.	2.1	3
76	Lithium chloride sensitivity connects the activity of PEX11 and RIM20 to the translation of PGM2 and other mRNAs with structured 5' UTRs. <i>Molecular and Cellular Biochemistry</i> , 2022, 477, 2643-2656.	3.1	3
77	Trans-species activity of a nonself recognition domain. <i>BMC Microbiology</i> , 2013, 13, 63.	3.3	2
78	Draft genome assembly and annotation of the masked birch caterpillar, <i>Drepana arcuata</i> (Lepidoptera: Tj ETQq 0 0,0 r gBT /Oyerlock 10	1.0	2
79	Discovery and identification of genes involved in DNA damage repair in yeast. <i>Gene</i> , 2022, , 146549.	2.2	2
80	Antimicrobial activities of <i>Marcgraviaceae</i> species and isolation of a naphthoquinone from <i>Marcgravia nervosa</i> (<i>Marcgraviaceae</i>). <i>Botany</i> , 2015, 93, 413-424.	1.0	1
81	Modern Biological Approaches to Folk Medicines and Traditional Antifungal Therapies. <i>International Journal of Technology, Knowledge and Society</i> , 2006, 2, 171-180.	0.2	1
82	Inhibition of DNA Polymerization and Antifungal Specificity of Furanocoumarins Present in Traditional Medicines. <i>Photochemistry and Photobiology</i> , 2004, 79, 506-510.	2.5	0
83	Ethnobotany and ethnopharmacology in the Americas. <i>Botany</i> , 2022, 100, v-v.	1.0	0
84	Title is missing!. , 2020, 15, e0235033.		0
85	Title is missing!. , 2020, 15, e0235033.		0
86	Title is missing!. , 2020, 15, e0235033.		0
87	Title is missing!. , 2020, 15, e0235033.		0
88	Title is missing!. , 2020, 15, e0235033.		0
89	Title is missing!. , 2020, 15, e0235033.		0
90	Title is missing!. , 2020, 15, e0235033.		0

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91	Title is missing!. , 2020, 15, e0235033.		0
92	Mapping translocation breakpoints by orthogonal field agarose-gel electrophoresis. Current Genetics, 1996, 29, 301-305.	1.7	0