

Michael J Bidochka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3614255/publications.pdf>

Version: 2024-02-01

51
papers

3,171
citations

186265

28
h-index

189892

50
g-index

51
all docs

51
docs citations

51
times ranked

2168
citing authors

#	ARTICLE	IF	CITATIONS
1	Profiling Destruxin Synthesis by Specialist and Generalist <i>Metarhizium</i> Insect Pathogens during Coculture with Plants. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	3.1	1
2	Fungal Effector Proteins: Molecular Mediators of Fungal Symbionts of Plants. <i>Rhizosphere Biology</i> , 2022, , 297-321.	0.6	1
3	Abscisic acid implicated in differential plant responses of <i>Phaseolus vulgaris</i> during endophytic colonization by <i>Metarhizium</i> and pathogenic colonization by <i>Fusarium</i> . <i>Scientific Reports</i> , 2021, 11, 11327.	3.3	8
4	Localization of the insect pathogenic fungal plant symbionts <i>Metarhizium robertsii</i> and <i>Metarhizium brunneum</i> in bean and corn roots. <i>Fungal Biology</i> , 2020, 124, 877-883.	2.5	11
5	The multifunctional lifestyles of <i>Metarhizium</i> : evolution and applications. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9935-9945.	3.6	35
6	Plant microbiome analysis after <i>Metarhizium</i> amendment reveals increases in abundance of plant growth-promoting organisms and maintenance of disease-suppressive soil. <i>PLoS ONE</i> , 2020, 15, e0231150.	2.5	42
7	DNA methyltransferase implicated in the recovery of conidiation, through successive plant passages, in phenotypically degenerated <i>Metarhizium</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5371-5383.	3.6	5
8	Generalist and specialist <i>Metarhizium</i> insect pathogens retain ancestral ability to colonize plant roots. <i>Fungal Ecology</i> , 2019, 41, 209-217.	1.6	32
9	Availability of carbon and nitrogen in soil affects <i>Metarhizium robertsii</i> root colonization and transfer of insect-derived nitrogen. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	6
10	<i>Metarhizium robertsii</i> ammonium permeases (MepC and Mep2) contribute to rhizoplane colonization and modulates the transfer of insect derived nitrogen to plants. <i>PLoS ONE</i> , 2019, 14, e0223718.	2.5	7
11	A review on the genus <i>Metarhizium</i> as an entomopathogenic microbial biocontrol agent with emphasis on its use and utility in Mexico. <i>Biocontrol Science and Technology</i> , 2019, 29, 83-102.	1.3	66
12	Diversity and abundance of entomopathogenic fungi at ant colonies. <i>Journal of Invertebrate Pathology</i> , 2018, 156, 73-76.	3.2	17
13	“Sleepers” and “Creepers”: A Theoretical Study of Colony Polymorphisms in the Fungus <i>Metarhizium</i> Related to Insect Pathogenicity and Plant Rhizosphere Colonization. <i>Insects</i> , 2018, 9, 104.	2.2	7
14	Hydrophobins contribute to root colonization and stress responses in the rhizosphere-competent insect pathogenic fungus <i>Beauveria bassiana</i> . <i>Microbiology (United Kingdom)</i> , 2018, 164, 517-528.	1.8	29
15	Initial stages of endophytic colonization by <i>Metarhizium</i> involves rhizoplane colonization. <i>Microbiology (United Kingdom)</i> , 2018, 164, 1531-1540.	1.8	30
16	Carbon translocation from a plant to an insect-pathogenic endophytic fungus. <i>Nature Communications</i> , 2017, 8, 14245.	12.8	106
17	Genome-wide identification of pathogenicity, conidiation and colony sectorization genes in <i>Metarhizium robertsii</i> . <i>Environmental Microbiology</i> , 2017, 19, 3896-3908.	3.8	24
18	Physiological and phylogenetic variability of Mexican <i>Metarhizium</i> strains. <i>BioControl</i> , 2017, 62, 779-791.	2.0	8

#	ARTICLE	IF	CITATIONS
19	Agrobacterium-Mediated Co-transformation of Multiple Genes in <i>Metarhizium robertsii</i> . <i>Mycobiology</i> , 2017, 45, 84-89.	1.7	4
20	Fungi with multifunctional lifestyles: endophytic insect pathogenic fungi. <i>Plant Molecular Biology</i> , 2016, 90, 657-664.	3.9	134
21	Field Trial of Aqueous and Emulsion Preparations of Entomopathogenic Fungi Against the Asian Citrus Psyllid (Hemiptera: Liviidae) in a Lime Orchard in Mexico. <i>Journal of Entomological Science</i> , 2015, 50, 79-87.	0.3	13
22	Root isolations of <i>Metarhizium</i> spp. from crops reflect diversity in the soil and indicate no plant specificity. <i>Journal of Invertebrate Pathology</i> , 2015, 132, 142-148.	3.2	62
23	Plant tissue localization of the endophytic insect pathogenic fungi <i>Metarhizium</i> and <i>Beauveria</i> . <i>Fungal Ecology</i> , 2015, 13, 112-119.	1.6	148
24	Nutrient transfer in plant-fungal symbioses. <i>Trends in Plant Science</i> , 2014, 19, 734-740.	8.8	185
25	Ubiquity of Insect-Derived Nitrogen Transfer to Plants by Endophytic Insect-Pathogenic Fungi: an Additional Branch of the Soil Nitrogen Cycle. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1553-1560.	3.1	150
26	Antagonism of the endophytic insect pathogenic fungus <i>Metarhizium robertsii</i> against the bean plant pathogen <i>Fusarium solani</i> f. sp. <i>phaseoli</i> . <i>Canadian Journal of Plant Pathology</i> , 2013, 35, 288-293.	1.4	83
27	Potential agricultural benefits through biotechnological manipulation of plant fungal associations. <i>BioEssays</i> , 2013, 35, 328-331.	2.5	13
28	Insects as a Nitrogen Source for Plants. <i>Insects</i> , 2013, 4, 413-424.	2.2	29
29	Nutrient transfer to plants by phylogenetically diverse fungi suggests convergent evolutionary strategies in rhizospheric symbionts. <i>Communicative and Integrative Biology</i> , 2013, 6, e22321.	1.4	22
30	Variability in the Insect and Plant Adhesins, Mad1 and Mad2, within the Fungal Genus <i>Metarhizium</i> Suggest Plant Adaptation as an Evolutionary Force. <i>PLoS ONE</i> , 2013, 8, e59357.	2.5	20
31	A PCR-based method to identify <i>Entomophaga</i> spp. infections in North American grasshoppers. <i>Journal of Invertebrate Pathology</i> , 2012, 109, 169-171.	3.2	5
32	Endophytic Insect-Parasitic Fungi Translocate Nitrogen Directly from Insects to Plants. <i>Science</i> , 2012, 336, 1576-1577.	12.6	325
33	The insect-pathogenic fungus <i>Metarhizium robertsii</i> (Clavicipitaceae) is also an endophyte that stimulates plant root development. <i>American Journal of Botany</i> , 2012, 99, 101-107.	1.7	243
34	Effect of group size and caste ratio on individual survivorship and social immunity in a subterranean termite. <i>Acta Ethologica</i> , 2012, 15, 55-63.	0.9	15
35	Three sympatrically occurring species of <i>Metarhizium</i> show plant rhizosphere specificity. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2904-2911.	1.8	128
36	Differential expression of insect and plant specific adhesin genes, Mad1 and Mad2, in <i>Metarhizium robertsii</i> . <i>Fungal Biology</i> , 2011, 115, 1174-1185.	2.5	24

#	ARTICLE	IF	CITATIONS
37	Flexible metabolism in <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> : role of the glyoxylate cycle during insect pathogenesis. <i>Microbiology (United Kingdom)</i> , 2011, 157, 199-208.	1.8	29
38	Could insect phagocytic avoidance by entomogenous fungi have evolved via selection against soil amoeboid predators?. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2164-2171.	1.8	61
39	A laccase exclusively expressed by <i>Metarhizium anisopliae</i> during isotropic growth is involved in pigmentation, tolerance to abiotic stresses and virulence. <i>Fungal Genetics and Biology</i> , 2010, 47, 602-607.	2.1	65
40	A regulator of a G protein signalling (RGS) gene, <i>cag8</i> , from the insect-pathogenic fungus <i>Metarhizium anisopliae</i> is involved in conidiation, virulence and hydrophobin synthesis. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2164-2171.	1.8	61
41	Transformation of <i>Metarhizium anisopliae</i> mediated by <i>Agrobacterium tumefaciens</i> . <i>Canadian Journal of Microbiology</i> , 2006, 52, 623-626.	1.7	93
42	Expression of genes involved in germination, conidiogenesis and pathogenesis in <i>Metarhizium anisopliae</i> using quantitative real-time RT-PCR. <i>Mycological Research</i> , 2006, 110, 1165-1171.	2.5	104
43	Up-regulation of Pr1, a subtilisin-like protease, during conidiation in the insect pathogen <i>Metarhizium anisopliae</i> . <i>Mycological Research</i> , 2005, 109, 307-313.	2.5	59
44	Nucleotide Sequence Variation Does Not Relate to Differences in Kinetic Properties of Neutral Trehalase from the Insect Pathogenic Fungus <i>Metarhizium anisopliae</i> . <i>Current Microbiology</i> , 2004, 48, 428-34.	2.2	6
45	Are teleomorphs really necessary?: modelling the potential effects of Muller's Ratchet on deuteromycetous entomopathogenic fungi. <i>Mycological Research</i> , 2001, 105, 1014-1019.	2.5	12
46	Habitat Association in Two Genetic Groups of the Insect-Pathogenic Fungus <i>Metarhizium anisopliae</i> : Uncovering Cryptic Species?. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1335-1342.	3.1	230
47	Occurrence of the entomopathogenic fungi <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> in soils from temperate and near-northern habitats. <i>Canadian Journal of Botany</i> , 1998, 76, 1198-1204.	1.1	61
48	Occurrence of the entomopathogenic fungi <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> in soils from temperate and near-northern habitats. <i>Canadian Journal of Botany</i> , 1998, 76, 1198-1204.	1.1	132
49	Co-transformation of <i>Metarhizium anisopliae</i> by electroporation or using the gene gun to produce stable GUS transformants. <i>FEMS Microbiology Letters</i> , 1995, 131, 289-294.	1.8	35
50	Differentiation of species and strains of entomopathogenic fungi by random amplification of polymorphic DNA (RAPD). <i>Current Genetics</i> , 1994, 25, 107-113.	1.7	143
51	Basic Proteases of Entomopathogenic Fungi Differ in Their Adsorption Properties to Insect Cuticle. <i>Journal of Invertebrate Pathology</i> , 1994, 64, 26-32.	3.2	27