Michael J Bidochka

List of Publications by Year
in descending order

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	Endophytic Insect-Parasitic Fungi Translocate Nitrogen Directly from Insects to Plants. Science, 2012, 336, 1576-1577.	12.6	325
2	The insectâ€pathogenic fungus <i>Metarhizium robertsii</i> (Clavicipitaceae) is also an endophyte that stimulates plant root development. American Journal of Botany, 2012, 99, 101-107.	1.7	243
3	Habitat Association in Two Genetic Groups of the Insect-Pathogenic Fungus Metarhizium anisopliae : Uncovering Cryptic Species?. Applied and Environmental Microbiology, 2001, 67, 1335-1342.	3.1	230
4	Nutrient transfer in plantâ€“fungal symbioses. Trends in Plant Science, 2014, 19, 734-740.	8.8	185
5	Ubiquity of Insect-Derived Nitrogen Transfer to Plants by Endophytic Insect-Pathogenic Fungi: an Additional Branch of the Soil Nitrogen Cycle. Applied and Environmental Microbiology, 2014, 80, 1553-1560.	3.1	150
6	Plant tissue localization of the endophytic insect pathogenic fungi Metarhizium and Beauveria. Fungal Ecology, 2015, 13, 112-119.	1.6	148
7	Differentiation of species and strains of entomopathogenic fungi by random amplification of polymorphic DNA (RAPD). Current Genetics, 1994, 25, 107-113.	1.7	143
8	Fungi with multifunctional lifestyles: endophytic insect pathogenic fungi. Plant Molecular Biology, 2016, 90, 657-664.	3.9	134
9	Occurrence of the entomopathogenic fungi <I>Metarhizium anisopliae</I> and <I>Beauveria bassiana</I> in soils from temperate and near-northern habitats. Canadian Journal of Botany, 1998, 76, 1198-1204.	1.1	132
10	Three sympatrically occurring species of Metarhizium show plant rhizosphere specificity. Microbiology (United Kingdom), 2011, 157, 2904-2911.	1.8	128
11	Carbon translocation from a plant to an insect-pathogenic endophytic fungus. Nature Communications, 2017, 8, 14245.	12.8	106
12	Expression of genes involved in germination, conidiogenesis and pathogenesis in Metarhizium anisopliae using quantitative real-time RT-PCR. Mycological Research, 2006, 110, 1165-1171.	2.5	104
13	Transformation of Metarhizium anisopliae mediated by Agrobacterium tumefaciens. Canadian Journal of Microbiology, 2006, 52, 623-626.	1.7	93
14	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>. Canadian Journal of Plant Pathology, 2013, 35, 288-293.	1.4	83
15	A regulator of a G protein signalling (RGS) gene, cag8, from the insect-pathogenic fungus Metarhizium anisopliae is involved in conidiation, virulence and hydrophobin synthesis. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.8	76
16	A review on the genus<i>Metarhizium</i>as an entomopathogenic microbial biocontrol agent with emphasis on its use and utility in Mexico. Biocontrol Science and Technology, 2019, 29, 83-102.	1.3	66
17	A laccase exclusively expressed by Metarhizium anisopliae during isotropic growth is involved in pigmentation, tolerance to abiotic stresses and virulence. Fungal Genetics and Biology, 2010, 47, 602-607.	2.1	65
18	Root isolations of Metarhizium spp. from crops reflect diversity in the soil and indicate no plant specificity. Journal of Invertebrate Pathology, 2015, 132, 142-148.	3.2	62

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19	Occurrence of the entomopathogenic fungi <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> in soils from temperate and near-northern habitats. Canadian Journal of Botany, 1998, 76, 1198-1204.	1.1	61
20	Could insect phagocytic avoidance by entomogenous fungi have evolved via selection against soil amoeboid predators?. Microbiology (United Kingdom), 2010, 156, 2164-2171.	1.8	61
21	Up-regulation of Pr1, a subtilisin-like protease, during conidiation in the insect pathogen Metarhizium anisopliae. Mycological Research, 2005, 109, 307-313.	2.5	59
22	Plant microbiome analysis after MetarhiziumÂamendment reveals increases in abundance of plant growth-promoting organismsÂand maintenance of disease-suppressive soil. PLoS ONE, 2020, 15, e0231150.	2.5	42
23	Co-transformation ofMetarhizium anisopliaeby electroporation or using the gene gun to produce stable GUS transformants. FEMS Microbiology Letters, 1995, 131, 289-294.	1.8	35
24	The multifunctional lifestyles of Metarhizium: evolution and applications. Applied Microbiology and Biotechnology, 2020, 104, 9935-9945.	3.6	35
25	Generalist and specialist Metarhizium insect pathogens retain ancestral ability to colonize plant roots. Fungal Ecology, 2019, 41, 209-217.	1.6	32
26	Initial stages of endophytic colonization by Metarhizium involves rhizoplane colonization. Microbiology (United Kingdom), 2018, 164, 1531-1540.	1.8	30
27	Flexible metabolism in Metarhizium anisopliae and Beauveria bassiana: role of the glyoxylate cycle during insect pathogenesis. Microbiology (United Kingdom), 2011, 157, 199-208.	1.8	29
28	Insects as a Nitrogen Source for Plants. Insects, 2013, 4, 413-424.	2.2	29
29	Hydrophobins contribute to root colonization and stress responses in the rhizosphere-competent insect pathogenic fungus Beauveria bassiana. Microbiology (United Kingdom), 2018, 164, 517-528.	1.8	29
30	Basic Proteases of Entomopathogenic Fungi Differ in Their Adsorption Properties to Insect Cuticle. Journal of Invertebrate Pathology, 1994, 64, 26-32.	3.2	27
31	Differential expression of insect and plant specific adhesin genes, Mad1 and Mad2, in Metarhizium robertsii. Fungal Biology, 2011, 115, 1174-1185.	2.5	24
32	Genomeâ€wide identification of pathogenicity, conidiation and colony sectorization genes in <i>Metarhizium robertsii</i>. Environmental Microbiology, 2017, 19, 3896-3908.	3.8	24
33	Nutrient transfer to plants by phylogenetically diverse fungi suggests convergent evolutionary strategies in rhizospheric symbionts. Communicative and Integrative Biology, 2013, 6, e22321.	1.4	22
34	Variability in the Insect and Plant Adhesins, Mad1 and Mad2, within the Fungal Genus Metarhizium Suggest Plant Adaptation as an Evolutionary Force. PLoS ONE, 2013, 8, e59357.	2.5	20
35	Diversity and abundance of entomopathogenic fungi at ant colonies. Journal of Invertebrate Pathology, 2018, 156, 73-76.	3.2	17
36	Effect of group size and caste ratio on individual survivorship and social immunity in a subterranean termite. Acta Ethologica, 2012, 15, 55-63.	0.9	15

#	ARTICLE	IF	CITATIONS
37	Potential agricultural benefits through biotechnological manipulation of plant fungal associations. BioEssays, 2013, 35, 328-331.	2.5	13
38	Field Trial of Aqueous and Emulsion Preparations of Entomopathogenic Fungi Against the Asian Citrus Psyllid (Hemiptera: Liviidae) in a Lime Orchard in Mexico. Journal of Entomological Science, 2015, 50, 79-87.	0.3	13
39	Are teleomorphs really necessary?: modelling the potential effects of Muller's Ratchet on deuteromycetous entomopathogenic fungi. Mycological Research, 2001, 105, 1014-1019.	2.5	12
40	Localization of the insect pathogenic fungal plant symbionts Metarhizium robertsii and Metarhizium brunneum in bean and corn roots. Fungal Biology, 2020, 124, 877-883.	2.5	11
41	Physiological and phylogenetic variability of Mexican Metarhizium strains. BioControl, 2017, 62, 779-791.	2.0	8
42	Abscisic acid implicated in differential plant responses of Phaseolus vulgaris during endophytic colonization by Metarhizium and pathogenic colonization by Fusarium. Scientific Reports, 2021, 11, 11327.	3.3	8
43	â€œSleepersâ€•and â€œCreepersâ€• A Theoretical Study of Colony Polymorphisms in the Fungus Metarhizium Related to Insect Pathogenicity and Plant Rhizosphere Colonization. Insects, 2018, 9, 104.	2.2	7
44	Metarhizium robertsii ammonium permeases (MepC and Mep2) contribute to rhizoplaneÂcolonization and modulates the transfer of insect derived nitrogen to plants. PLoS ONE, 2019, 14, e0223718.	2.5	7
45	Nucleotide Sequence Variation Does Not Relate to Differences in Kinetic Properties of Neutral Trehalase from the Insect Pathogenic Fungus Metarhizium anisopliae. Current Microbiology, 2004, 48, 428-34.	2.2	6
46	Availability of carbon and nitrogen in soil affects Metarhizium robertsii root colonization and transfer of insect-derived nitrogen. FEMS Microbiology Ecology, 2019, 95, .	2.7	6
47	A PCR-based method to identify Entomophaga spp. infections in North American grasshoppers. Journal of Invertebrate Pathology, 2012, 109, 169-171.	3.2	5
48	DNA methyltransferase implicated in the recovery of conidiation, through successive plant passages, in phenotypically degenerated Metarhizium. Applied Microbiology and Biotechnology, 2020, 104, 5371-5383.	3.6	5
49	Agrobacterium-Mediated Co-transformation of Multiple Genes in Metarhizium robertsii. Mycobiology, 2017, 45, 84-89.	1.7	4
50	Profiling Destruxin Synthesis by Specialist and Generalist Metarhizium Insect Pathogens during Coculture with Plants. Applied and Environmental Microbiology, 2022, 88, .	3.1	1
51	Fungal Effector Proteins: Molecular Mediators of Fungal Symbionts of Plants. Rhizosphere Biology, 2022, , 297-321.	0.6	1