Mark Busman

List of Publications by Year
in descending order

90 papers	5,197 citations	87888 38 h-index	88630 70 g-index
91 all docs	91 docs citations	91 times ranked	4564 citing authors

#	Article	IF	Citations
1	Weeds Harbor <i>Fusarium</i> Species that Cause Malformation Disease of Economically Important Trees in Western Mexico. Plant Disease, 2022, 106, 612-622.	1.4	1
2	Phylogenetic Diversity and Mycotoxin Potential of Emergent Phytopathogens Within the <i>Fusarium tricinctum</i> Species Complex. Phytopathology, 2022, 112, 1284-1298.	2.2	12
3	Volatile Organic Compound Profile Fingerprints Using DARTâ€“MS Shows Species-Specific Patterns in Fusarium Mycotoxin Producing Fungi. Journal of Fungi (Basel, Switzerland), 2022, 8, 3.	3.5	11
4	DNA Sequence-Based Identification of<i>Fusarium</i>: A Work in Progress. Plant Disease, 2022, 106, 1597-1609.	1.4	48
5	<i>Fusarium abutilonis</i>and<i>F. guadeloupense</i>, two novel species in the<i>Fusarium buharicum</i>clade supported by multilocus molecular phylogenetic analyses. Mycologia, 2022, 114, 682-696.	1.9	4
6	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic<i>Fusarium</i>that Includes the<i>Fusarium solani</i>Species Complex. Phytopathology, 2021, 111, 1064-1079.	2.2	107
7	Fiveâ€year survey uncovers extensive diversity and temporal fluctuations among fusarium head blight pathogens of wheat and barley in Brazil. Plant Pathology, 2021, 70, 426-435.	2.4	16
8	Malformation Disease in <i>Tabebuia rosea</i> (Rosy Trumpet) Caused by <i>Fusarium pseudocircinatum</i> in Mexico. Plant Disease, 2021, 105, 2822-2829.	1.4	4
9	Species diversity and mycotoxin production by members of the Fusarium tricinctum species complex associated with Fusarium head blight of wheat and barley in Italy. International Journal of Food Microbiology, 2021, 358, 109298.	4.7	29
10	Distribution, Function, and Evolution of a Gene Essential for Trichothecene Toxin Biosynthesis in Trichoderma. Frontiers in Microbiology, 2021, 12, 791641.	3.5	10
11	Fusarium xyrophilum, sp. nov., a member of the Fusarium fujikuroi species complex recovered from pseudoflowers on yellow-eyed grass (Xyris spp.) from Guyana. Mycologia, 2020, 112, 39-51.	1.9	14
12	Intestinal hydrolysis and microbial biotransformation of diacetoxyscirpenol-Î±-glucoside, HT-2-Î²-glucoside and<i>N</i>-(1-deoxy-<scp>d</scp>-fructos-1-yl) fumonisin B₁by human gut microbiota<i>inÂvitro</i>. International Journal of Food Sciences and Nutrition, 2020, 71, 540-548.	2.8	17
13	Pseudoflowers produced by Fusarium xyrophilum on yellow-eyed grass (Xyris spp.) in Guyana: A novel floral mimicry system?. Fungal Genetics and Biology, 2020, 144, 103466.	2.1	10
14	Identification and distribution of gene clusters required for synthesis of sphingolipid metabolism inhibitors in diverse species of the filamentous fungus Fusarium. BMC Genomics, 2020, 21, 510.	2.8	21
15	Low Aflatoxin Levels in Aspergillus flavus-Resistant Maize Are Correlated With Increased Corn Earworm Damage and Enhanced Seed Fumonisin. Frontiers in Plant Science, 2020, 11, 565323.	3.6	6
16	An endophyte of Macrochloa tenacissima (esparto or needle grass) from Tunisia is a novel species in the Fusarium redolens species complex. Mycologia, 2020, 112, 792-807.	1.9	7
17	Regional and field-specific differences in Fusarium species and mycotoxins associated with blighted North Carolina wheat. International Journal of Food Microbiology, 2020, 323, 108594.	4.7	17
18	Immunoassay utilizing imaging surface plasmon resonance for the detection of cyclopiazonic acid (CPA) in maize and cheese. Analytical and Bioanalytical Chemistry, 2019, 411, 3543-3552.	3.7	19

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19	Requirement of Two Acyltransferases for 4-<i>O</i>-Acylation during Biosynthesis of Harzianum A, an Antifungal Trichothecene Produced by <i>Trichoderma arundinaceum</i>. Journal of Agricultural and Food Chemistry, 2019, 67, 723-734.	5.2	12
20	Reducing production of fumonisin mycotoxins in Fusarium verticillioides by RNA interference. Mycotoxin Research, 2018, 34, 29-37.	2.3	18
21	Pathogenicity of Fumonisin-producing and Nonproducing Strains of <i>Aspergillus</i> Species in Section <i>Nigri</i> to Maize Ears and Seedlings. Plant Disease, 2018, 102, 282-291.	1.4	7
22	Development of antibodies for N-(1-deoxy-D-fructos-1-yl) fumonisin B1 and cross-reaction with modified fumonisins. World Mycotoxin Journal, 2018, 11, 493-502.	1.4	5
23	Marasas et al. 1984 â€œToxigenic <i>Fusarium</i> Species: Identity and Mycotoxicologyâ€•revisited. Mycologia, 2018, 110, 1058-1080.	1.9	79
24	Molecular systematics of two sister clades, the <i>Fusarium concolor</i> and <i>F. babinda</i> species complexes, and the discovery of a novel microcycle macroconidiumâ€“producing species from South Africa. Mycologia, 2018, 110, 1189-1204.	1.9	24
25	Fusarium subtropicale, sp. nov., a novel nivalenol mycotoxinâ€“producing species isolated from barley (Hordeum vulgare) in Brazil and sister to F. praegraminearum. Mycologia, 2018, 110, 860-871.	1.9	10
26	Evolution of structural diversity of trichothecenes, a family of toxins produced by plant pathogenic and entomopathogenic fungi. PLoS Pathogens, 2018, 14, e1006946.	4.7	141
27	Quantitation of Mycotoxins Using Direct Analysis in Real Time Mass Spectrometry (DART-MS). Journal of AOAC INTERNATIONAL, 2018, 101, 643-646.	1.5	20
28	Determinants and Expansion of Specificity in a Trichothecene UDP-Glucosyltransferase from <i>Oryza sativa</i>. Biochemistry, 2017, 56, 6585-6596.	2.5	30
29	<i>Fusarium algeriense</i>, sp. nov., a novel toxigenic crown rot pathogen of durum wheat from Algeria is nested in the <i>Fusarium burgessii</i> species complex. Mycologia, 2017, 109, 935-950.	1.9	22
30	Utilization of High Performance Liquid Chromatography Coupled to Tandem Mass Spectrometry for Characterization of 8-O-methylbostrycoidin Production by Species of the Fungus Fusarium. Journal of Fungi (Basel, Switzerland), 2017, 3, 43.	3.5	10
31	Crystal Structure of Os79 (Os04g0206600) from <i>Oryza sativa</i>: A UDP-glucosyltransferase Involved in the Detoxification of Deoxynivalenol. Biochemistry, 2016, 55, 6175-6186.	2.5	49
32	<i>Fusarium agapanthi</i> sp. nov., a novel bikaverin and fusarubin-producing leaf and stem spot pathogen of <i>Agapanthus praecox</i> (African lily) from Australia and Italy. Mycologia, 2016, 108, 981-992.	1.9	31
33	Fusarium praegraminearum sp. nov., a novel nivalenol mycotoxin-producing pathogen from New Zealand can induce head blight on wheat. Mycologia, 2016, 108, 1229-1239.	1.9	12
34	Determination of T-2 and HT-2 toxins from maize by direct analysis in real time mass spectrometry. World Mycotoxin Journal, 2015, 8, 489-497.	1.4	16
35	<i>Fusarium dactylidis</i> sp. nov., a novel nivalenol toxin-producing species sister to <i>F. pseudograminearum</i> isolated from orchard grass (<i>Dactylis glomerata</i>) in Oregon and New Zealand. Mycologia, 2015, 107, 409-418.	1.9	34
36	Anomericity of T-2 Toxin-glucoside: Masked Mycotoxin in Cereal Crops. Journal of Agricultural and Food Chemistry, 2015, 63, 731-738.	5.2	68

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37	Identification of a 12-Gene Fusaric Acid Biosynthetic Gene Cluster in <i>Fusarium</i> Species Through Comparative and Functional Genomics. Molecular Plant-Microbe Interactions, 2015, 28, 319-332.	2.6	92
38	Quantification of patulin in fruit leathers by ultra-high-performance liquid chromatography-photodiode array (UPLC-PDA). Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 1164-1174.	2.3	10
39	Diversity of Fusarium head blight populations and trichothecene toxin types reveals regional differences in pathogen composition and temporal dynamics. Fungal Genetics and Biology, 2015, 82, 22-31.	2.1	96
40	Determination of the aflatoxin M1 (AFM1) from milk by direct analysis in real time â€“ mass spectrometry (DART-MS). Food Control, 2015, 47, 592-598.	5.5	69
41	Rapid Detection Method for Fusaric Acid-producing Species of Fusarium by PCR. Research in Plant Disease, 2015, 21, 326-329.	0.8	4
42	Determination of the aflatoxin AFB1 from corn by direct analysis in real time-mass spectrometry (DART-MS). Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2014, 31, 932-939.	2.3	30
43	<i>Fusarium verticillioides SGE1</i> Is Required for Full Virulence and Regulates Expression of Protein Effector and Secondary Metabolite Biosynthetic Genes. Molecular Plant-Microbe Interactions, 2014, 27, 809-823.	2.6	42
44	Birth, death and horizontal transfer of the fumonisin biosynthetic gene cluster during the evolutionary diversification of <i><scp>F</scp>usarium</i>. Molecular Microbiology, 2013, 90, 290-306.	2.5	118
45	Impact of temperature stress and validamycin A on compatible solutes and fumonisin production in F. verticillioides: Role of trehalose-6-phosphate synthase. Fungal Genetics and Biology, 2013, 57, 1-10.	2.1	19
46	Development and Evaluation of Monoclonal Antibodies for the Glucoside of T-2 Toxin (T2-Glc). Toxins, 2013, 5, 1299-1313.	3.4	17
47	Identification of gene clusters associated with fusaric acid, fusarin, and perithecial pigment production in Fusarium verticillioides. Fungal Genetics and Biology, 2012, 49, 521-532.	2.1	116
48	Lae1 regulates expression of multiple secondary metabolite gene clusters in Fusarium verticillioides. Fungal Genetics and Biology, 2012, 49, 602-612.	2.1	114
49	Identification of Early Fumonisin Biosynthetic Intermediates by Inactivation of the <i>FUM6</i> Gene in Fusarium verticillioides. Journal of Agricultural and Food Chemistry, 2012, 60, 10293-10301.	5.2	19
50	FUM and BIK gene expression contribute to describe fumonisin and bikaverin synthesis in Fusarium verticillioides. International Journal of Food Microbiology, 2012, 160, 94-98.	4.7	17
51	Fusarium verticillioides chitin synthases CHS5 and CHS7 are required for normal growth and pathogenicity. Current Genetics, 2011, 57, 177-189.	1.7	40
52	Observation of T-2 Toxin and HT-2 Toxin Glucosides from Fusarium sporotrichioides by Liquid Chromatography Coupled to Tandem Mass Spectrometry (LC-MS/MS). Toxins, 2011, 3, 1554-1568.	3.4	65
53	Fumonsins in materials related to ethanol production from corn. ACS Symposium Series, 2010, , 237-246.	0.5	0
54	<i>FvVE1</i> Regulates Biosynthesis of the Mycotoxins Fumonisins and Fusarins in Fusarium verticillioides. Journal of Agricultural and Food Chemistry, 2009, 57, 5089-5094.	5.2	82

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55	A fumonisin biosynthetic gene cluster in Fusarium oxysporum strain O-1890 and the genetic basis for B versus C fumonisin production. Fungal Genetics and Biology, 2008, 45, 1016-1026.	2.1	103
56	Gibberella Ear Rot of Maize (Zea mays) in Nepal: Distribution of the Mycotoxins Nivalenol and Deoxynivalenol in Naturally and Experimentally Infected Maize. Journal of Agricultural and Food Chemistry, 2008, 56, 5428-5436.	5.2	24
57	Wheat kernel black point and fumonisin contamination by<i>Fusarium proliferatum</i>. Food Additives and Contaminants, 2007, 24, 1131-1137.	2.0	51
58	The Fusarium verticillioides FUM Gene Cluster Encodes a Zn(II)2Cys6 Protein That Affects FUM Gene Expression and Fumonisin Production. Eukaryotic Cell, 2007, 6, 1210-1218.	3.4	171
59	Complementary hostâ€“pathogen genetic analyses of the role of fumonisins in the Zea maysâ€“Gibberella moniliformis interaction. Physiological and Molecular Plant Pathology, 2007, 70, 149-160.	2.5	33
60	Fumonisin Production in the Maize PathogenFusarium verticillioides:Â Genetic Basis of Naturally Occurring Chemical Variation. Journal of Agricultural and Food Chemistry, 2006, 54, 2424-2430.	5.2	120
61	Biosynthesis ofFusarium mycotoxins and genomics ofFusarium verticillioides. Mycotoxin Research, 2006, 22, 75-78.	2.3	4
62	Mycotoxins in developing countries: A case study of maize in Nepal. Mycotoxin Research, 2006, 22, 92-95.	2.3	8
63	Production and characterization of a monoclonal antibody that cross-reacts with the mycotoxins nivalenol and 4-deoxynivalenol. Food Additives and Contaminants, 2006, 23, 816-825.	2.0	39
64	Quantitative measurement of different ceramide species from crude cellular extracts by normal-phase high-performance liquid chromatography coupled to atmospheric pressure ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2004, 18, 577-583.	1.5	48
65	Mass spectrometric analysis of ceramide perturbations in brain and fibroblasts of mice and human patients with peroxisomal disorders. Rapid Communications in Mass Spectrometry, 2004, 18, 1569-1574.	1.5	41
66	Capillary high-performance liquid chromatographyâ€“electrospray ionization mass spectrometry using monolithic columns and carbon fiber electrospray ionization emitters. Journal of Chromatography A, 2004, 1047, 49-57.	3.7	28
67	Electrospray Ionization with a Pointed Carbon Fiber Emitter. Analytical Chemistry, 2004, 76, 3599-3606.	6.5	35
68	Observation of different ceramide species from crude cellular extracts by normal-phase high-performance liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 1203-1211.	1.5	42
69	Impact of preparation method on gonad domoic acid levels in the scallop, Pecten maximus (L.). Harmful Algae, 2003, 2, 215-222.	4.8	17
70	Structural Characterization of Intact G Protein Î³ Subunits by Mass Spectrometry. Methods in Enzymology, 2002, 344, 586-597.	1.0	2
71	Development of a protocol for determination of domoic acid in the sand crab (Emerita analoga): a possible new indicator species. Toxicon, 2002, 40, 485-492.	1.6	45
72	Krill: a potential vector for domoic acid in marine food webs. Marine Ecology - Progress Series, 2002, 237, 209-216.	1.9	93

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73	Biomonitoring brevetoxin exposure in mammals using blood collection cards.. Environmental Health Perspectives, 2001, 109, 717-720.	6.0	22
74	Induction of Apoptosis through B-cell Receptor Cross-linking Occurs via de Novo Generated C16-Ceramide and Involves Mitochondria. Journal of Biological Chemistry, 2001, 276, 13606-13614.	3.4	148
75	Pseudo-nitzschia sp. cf. pseudodelicatissima - a confirmed producer of domoic acid from the northern Gulf of Mexico. Marine Ecology - Progress Series, 2001, 220, 83-92.	1.9	82
76	Domoic acid production near California coastal upwelling zones, June 1998. Limnology and Oceanography, 2000, 45, 1818-1833.	3.1	169
77	Mortality of sea lions along the central California coast linked to a toxic diatom bloom. Nature, 2000, 403, 80-84.	27.8	719
78	Detection of domoic acid in northern anchovies and california sea lions associated with an unusual mortality event. Natural Toxins, 1999, 7, 85-92.	1.0	199
79	Mass spectrometric analysis of integral membrane proteins: Application to complete mapping of bacteriorhodopsins and rhodopsin. Protein Science, 1998, 7, 758-764.	7.6	56
80	Identification of Photooxidation Sites in Bovine Î±-Crystallin. Photochemistry and Photobiology, 1997, 66, 635-641.	2.5	47
81	Mechanism of photoreceptor cGMP phosphodiesterase inhibition by its gamma-subunits.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 5407-5412.	7.1	59
82	Identification of phosphorylation sites in phosphopeptides by positive and negative mode electrospray ionization-tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1996, 7, 243-249.	2.8	32
83	Determination of the Complete Covalent Structure of the Î³2 Subunit of Bovine Brain G Proteins by Mass Spectrometry. Biochemical and Biophysical Research Communications, 1995, 212, 367-374.	2.1	16
84	Observation of large multimers in the electrospray ionization mass spectrometry of peptides. Rapid Communications in Mass Spectrometry, 1994, 8, 211-216.	1.5	26
85	Activation energies for gas-phase dissociations of multiply charged ions from electrospray ionization mass spectrometry. The Journal of Physical Chemistry, 1992, 96, 2397-2400.	2.9	68
86	Space-charge-dominated mass spectrometry ion sources: Modeling and sensitivity. Journal of the American Society for Mass Spectrometry, 1991, 2, 1-10.	2.8	41
87	Principles and practice of electrospray ionizationâ€"mass spectrometry for large polypeptides and proteins. Mass Spectrometry Reviews, 1991, 10, 359-452.	5.4	565
88	Simulation method for potential and charge distributions in space charge dominated ion sources. International Journal of Mass Spectrometry and Ion Processes, 1991, 108, 165-178.	1.8	8
89	Coulombic effects in the dissociation of large highly charged ions. International Journal of Mass Spectrometry and Ion Processes, 1991, 111, 103-129.	1.8	74
90	Thermally induced dissociation of ions from electrospray mass spectrometry. Rapid Communications in Mass Spectrometry, 1991, 5, 582-585.	1.5	68