

# Mark Busman

## List of Publications by Year in descending order

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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	Mortality of sea lions along the central California coast linked to a toxic diatom bloom. <i>Nature</i> , 2000, 403, 80-84.	27.8	719
2	Principles and practice of electrospray ionization mass spectrometry for large polypeptides and proteins. <i>Mass Spectrometry Reviews</i> , 1991, 10, 359-452.	5.4	565
3	Detection of domoic acid in northern anchovies and California sea lions associated with an unusual mortality event. <i>Natural Toxins</i> , 1999, 7, 85-92.	1.0	199
4	The <i>Fusarium verticillioides</i> FUM Gene Cluster Encodes a Zn(II) <sub>2</sub> Cys <sub>6</sub> Protein That Affects FUM Gene Expression and Fumonisin Production. <i>Eukaryotic Cell</i> , 2007, 6, 1210-1218.	3.4	171
5	Domoic acid production near California coastal upwelling zones, June 1998. <i>Limnology and Oceanography</i> , 2000, 45, 1818-1833.	3.1	169
6	Induction of Apoptosis through B-cell Receptor Cross-linking Occurs via de Novo Generated C16-Ceramide and Involves Mitochondria. <i>Journal of Biological Chemistry</i> , 2001, 276, 13606-13614.	3.4	148
7	Evolution of structural diversity of trichothecenes, a family of toxins produced by plant pathogenic and entomopathogenic fungi. <i>PLoS Pathogens</i> , 2018, 14, e1006946.	4.7	141
8	Fumonisin Production in the Maize Pathogen <i>Fusarium verticillioides</i> : A Genetic Basis of Naturally Occurring Chemical Variation. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 2424-2430.	5.2	120
9	Birth, death and horizontal transfer of the fumonisin biosynthetic gene cluster during the evolutionary diversification of <i>Fusarium</i> . <i>Molecular Microbiology</i> , 2013, 90, 290-306.	2.5	118
10	Identification of gene clusters associated with fusaric acid, fusarin, and perithecial pigment production in <i>Fusarium verticillioides</i> . <i>Fungal Genetics and Biology</i> , 2012, 49, 521-532.	2.1	116
11	<i>Lae1</i> regulates expression of multiple secondary metabolite gene clusters in <i>Fusarium verticillioides</i> . <i>Fungal Genetics and Biology</i> , 2012, 49, 602-612.	2.1	114
12	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. <i>Phytopathology</i> , 2021, 111, 1064-1079.	2.2	107
13	A fumonisin biosynthetic gene cluster in <i>Fusarium oxysporum</i> strain O-1890 and the genetic basis for B versus C fumonisin production. <i>Fungal Genetics and Biology</i> , 2008, 45, 1016-1026.	2.1	103
14	Diversity of <i>Fusarium</i> head blight populations and trichothecene toxin types reveals regional differences in pathogen composition and temporal dynamics. <i>Fungal Genetics and Biology</i> , 2015, 82, 22-31.	2.1	96
15	Krill: a potential vector for domoic acid in marine food webs. <i>Marine Ecology - Progress Series</i> , 2002, 237, 209-216.	1.9	93
16	Identification of a 12-Gene Fusaric Acid Biosynthetic Gene Cluster in <i>Fusarium</i> Species Through Comparative and Functional Genomics. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 319-332.	2.6	92
17	<i>FvVE1</i> Regulates Biosynthesis of the Mycotoxins Fumonisin and Fusarins in <i>Fusarium verticillioides</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 5089-5094.	5.2	82
18	<i>Pseudo-nitzschia</i> sp. cf. <i>pseudodelicatissima</i> - a confirmed producer of domoic acid from the northern Gulf of Mexico. <i>Marine Ecology - Progress Series</i> , 2001, 220, 83-92.	1.9	82

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19	Marasas et al. 1984 "Toxigenic <i>Fusarium</i> Species: Identity and Mycotoxicology" revisited. <i>Mycologia</i> , 2018, 110, 1058-1080.	1.9	79
20	Coulombic effects in the dissociation of large highly charged ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 111, 103-129.	1.8	74
21	Determination of the aflatoxin M1 (AFM1) from milk by direct analysis in real time " mass spectrometry (DART-MS). <i>Food Control</i> , 2015, 47, 592-598.	5.5	69
22	Thermally induced dissociation of ions from electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 582-585.	1.5	68
23	Activation energies for gas-phase dissociations of multiply charged ions from electrospray ionization mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2397-2400.	2.9	68
24	Anomericity of T-2 Toxin-glucoside: Masked Mycotoxin in Cereal Crops. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 731-738.	5.2	68
25	Observation of T-2 Toxin and HT-2 Toxin Glucosides from <i>Fusarium sporotrichioides</i> by Liquid Chromatography Coupled to Tandem Mass Spectrometry (LC-MS/MS). <i>Toxins</i> , 2011, 3, 1554-1568.	3.4	65
26	Mechanism of photoreceptor cGMP phosphodiesterase inhibition by its gamma-subunits.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 5407-5412.	7.1	59
27	Mass spectrometric analysis of integral membrane proteins: Application to complete mapping of bacteriorhodopsins and rhodopsin. <i>Protein Science</i> , 1998, 7, 758-764.	7.6	56
28	Wheat kernel black point and fumonisin contamination by <b><i>Fusarium proliferatum</i></b>. <i>Food Additives and Contaminants</i> , 2007, 24, 1131-1137.	2.0	51
29	Crystal Structure of Os79 (Os04g0206600) from <i>Oryza sativa</i>: A UDP-glucosyltransferase Involved in the Detoxification of Deoxynivalenol. <i>Biochemistry</i> , 2016, 55, 6175-6186.	2.5	49
30	Quantitative measurement of different ceramide species from crude cellular extracts by normal-phase high-performance liquid chromatography coupled to atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 577-583.	1.5	48
31	DNA Sequence-Based Identification of <i>Fusarium</i>: A Work in Progress. <i>Plant Disease</i> , 2022, 106, 1597-1609.	1.4	48
32	Identification of Photooxidation Sites in Bovine Î±-Crystallin. <i>Photochemistry and Photobiology</i> , 1997, 66, 635-641.	2.5	47
33	Development of a protocol for determination of domoic acid in the sand crab ( <i>Emerita analoga</i> ): a possible new indicator species. <i>Toxicon</i> , 2002, 40, 485-492.	1.6	45
34	Observation of different ceramide species from crude cellular extracts by normal-phase high-performance liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1203-1211.	1.5	42
35	<i>Fusarium verticillioides</i> SGE1 <i> Is Required for Full Virulence and Regulates Expression of Protein Effector and Secondary Metabolite Biosynthetic Genes. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 809-823.	2.6	42
36	Space-charge-dominated mass spectrometry ion sources: Modeling and sensitivity. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 1-10.	2.8	41

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37	Mass spectrometric analysis of ceramide perturbations in brain and fibroblasts of mice and human patients with peroxisomal disorders. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1569-1574.	1.5	41
38	<i>Fusarium verticillioides</i> chitin synthases CHS5 and CHS7 are required for normal growth and pathogenicity. <i>Current Genetics</i> , 2011, 57, 177-189.	1.7	40
39	Production and characterization of a monoclonal antibody that cross-reacts with the mycotoxins nivalenol and 4-deoxynivalenol. <i>Food Additives and Contaminants</i> , 2006, 23, 816-825.	2.0	39
40	Electrospray Ionization with a Pointed Carbon Fiber Emitter. <i>Analytical Chemistry</i> , 2004, 76, 3599-3606.	6.5	35
41	<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. <i>Mycologia</i> , 2015, 107, 409-418.	1.9	34
42	Complementary host-pathogen genetic analyses of the role of fumonisins in the <i>Zea mays</i> - <i>Gibberella moniliformis</i> interaction. <i>Physiological and Molecular Plant Pathology</i> , 2007, 70, 149-160.	2.5	33
43	Identification of phosphorylation sites in phosphopeptides by positive and negative mode electrospray ionization-tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 243-249.	2.8	32
44	<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. <i>Mycologia</i> , 2016, 108, 981-992.	1.9	31
45	Determination of the aflatoxin AFB1 from corn by direct analysis in real time-mass spectrometry (DART-MS). <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2014, 31, 932-939.	2.3	30
46	Determinants and Expansion of Specificity in a Trichothecene UDP-Glucosyltransferase from <i>Oryza sativa</i> . <i>Biochemistry</i> , 2017, 56, 6585-6596.	2.5	30
47	Species diversity and mycotoxin production by members of the <i>Fusarium tricinctum</i> species complex associated with <i>Fusarium</i> head blight of wheat and barley in Italy. <i>International Journal of Food Microbiology</i> , 2021, 358, 109298.	4.7	29
48	Capillary high-performance liquid chromatography-electrospray ionization mass spectrometry using monolithic columns and carbon fiber electrospray ionization emitters. <i>Journal of Chromatography A</i> , 2004, 1047, 49-57.	3.7	28
49	Observation of large multimers in the electrospray ionization mass spectrometry of peptides. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 211-216.	1.5	26
50	<i>Gibberella</i> Ear Rot of Maize ( <i>Zea mays</i> ) in Nepal: Distribution of the Mycotoxins Nivalenol and Deoxynivalenol in Naturally and Experimentally Infected Maize. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5428-5436.	5.2	24
51	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 macroconidium-producing species from South Africa. <i>Mycologia</i> , 2018, 110, 1189-1204.	1.9	24
52	Biomonitoring brevetoxin exposure in mammals using blood collection cards.. <i>Environmental Health Perspectives</i> , 2001, 109, 717-720.	6.0	22
53	<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. <i>Mycologia</i> , 2017, 109, 935-950.	1.9	22
54	Identification and distribution of gene clusters required for synthesis of sphingolipid metabolism inhibitors in diverse species of the filamentous fungus <i>Fusarium</i> . <i>BMC Genomics</i> , 2020, 21, 510.	2.8	21

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55	Quantitation of Mycotoxins Using Direct Analysis in Real Time Mass Spectrometry (DART-MS). Journal of AOAC INTERNATIONAL, 2018, 101, 643-646.	1.5	20
56	Identification of Early Fumonisin Biosynthetic Intermediates by Inactivation of the <i>FUM6</i> Gene in <i>Fusarium verticillioides</i> . Journal of Agricultural and Food Chemistry, 2012, 60, 10293-10301.	5.2	19
57	Impact of temperature stress and validamycin A on compatible solutes and fumonisin production in <i>F. verticillioides</i> : Role of trehalose-6-phosphate synthase. Fungal Genetics and Biology, 2013, 57, 1-10.	2.1	19
58	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
59	Reducing production of fumonisin mycotoxins in <i>Fusarium verticillioides</i> by RNA interference. Mycotoxin Research, 2018, 34, 29-37.	2.3	18
60	Impact of preparation method on gonad domoic acid levels in the scallop, <i>Pecten maximus</i> (L.). Harmful Algae, 2003, 2, 215-222.	4.8	17
61	FUM and BIK gene expression contribute to describe fumonisin and bikaverin synthesis in <i>Fusarium verticillioides</i> . International Journal of Food Microbiology, 2012, 160, 94-98.	4.7	17
62	Development and Evaluation of Monoclonal Antibodies for the Glucoside of T-2 Toxin (T2-Glc). Toxins, 2013, 5, 1299-1313.	3.4	17
63	Intestinal hydrolysis and microbial biotransformation of diacetoxyscirpenol- $\beta$ -glucoside, HT-2- $\beta$ -glucoside and <i>N</i> -(1-deoxy- $\alpha$ -D-fructos-1-yl) fumonisin B <sub>1</sub> by human gut microbiota <i>in vitro</i> . International Journal of Food Sciences and Nutrition, 2020, 71, 540-548.	2.8	17
64	Regional and field-specific differences in <i>Fusarium</i> species and mycotoxins associated with blighted North Carolina wheat. International Journal of Food Microbiology, 2020, 323, 108594.	4.7	17
65	Determination of the Complete Covalent Structure of the $\beta$ 2 Subunit of Bovine Brain G Proteins by Mass Spectrometry. Biochemical and Biophysical Research Communications, 1995, 212, 367-374.	2.1	16
66	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
67	Five-year survey uncovers extensive diversity and temporal fluctuations among <i>Fusarium</i> head blight pathogens of wheat and barley in Brazil. Plant Pathology, 2021, 70, 426-435.	2.4	16
68	<i>Fusarium xyrophilum</i> , sp. nov., a member of the <i>Fusarium fujikuroi</i> species complex recovered from pseudoflowers on yellow-eyed grass ( <i>Xyris</i> spp.) from Guyana. Mycologia, 2020, 112, 39-51.	1.9	14
69	Requirement of Two Acyltransferases for 4-O-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
70	<i>Fusarium praegraminearum</i> 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
71	Phylogenetic Diversity and Mycotoxin Potential of Emergent Phytopathogens Within the <i>Fusarium tricinctum</i> Species Complex. Phytopathology, 2022, 112, 1284-1298.	2.2	12
72	Volatile Organic Compound Profile Fingerprints Using DART-MS Shows Species-Specific Patterns in <i>Fusarium</i> Mycotoxin Producing Fungi. Journal of Fungi (Basel, Switzerland), 2022, 8, 3.	3.5	11

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73	Quantification of patulin in fruit leathers by ultra-high-performance liquid chromatography-photodiode array (UPLC-PDA). <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2015, 32, 1164-1174.	2.3	10
74	Utilization of High Performance Liquid Chromatography Coupled to Tandem Mass Spectrometry for Characterization of 8-O-methylbostrycoidin Production by Species of the Fungus <i>Fusarium</i> . <i>Journal of Fungi</i> (Basel, Switzerland), 2017, 3, 43.	3.5	10
75	<i>Fusarium subtropicale</i> , sp. nov., a novel nivalenol mycotoxin-producing species isolated from barley ( <i>Hordeum vulgare</i> ) in Brazil and sister to <i>F. praegraminearum</i> . <i>Mycologia</i> , 2018, 110, 860-871.	1.9	10
76	Pseudoflowers produced by <i>Fusarium xyrophilum</i> on yellow-eyed grass ( <i>Xyris</i> spp.) in Guyana: A novel floral mimicry system?. <i>Fungal Genetics and Biology</i> , 2020, 144, 103466.	2.1	10
77	Distribution, Function, and Evolution of a Gene Essential for Trichothecene Toxin Biosynthesis in <i>Trichoderma</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 791641.	3.5	10
78	Simulation method for potential and charge distributions in space charge dominated ion sources. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 108, 165-178.	1.8	8
79	Mycotoxins in developing countries: A case study of maize in Nepal. <i>Mycotoxin Research</i> , 2006, 22, 92-95.	2.3	8
80	Pathogenicity of Fumonisin-producing and Nonproducing Strains of <i>Aspergillus</i> Species in Section <i>Nigri</i> to Maize Ears and Seedlings. <i>Plant Disease</i> , 2018, 102, 282-291.	1.4	7
81	An endophyte of <i>Macrochloa tenacissima</i> (esparto or needle grass) from Tunisia is a novel species in the <i>Fusarium redolens</i> species complex. <i>Mycologia</i> , 2020, 112, 792-807.	1.9	7
82	Low Aflatoxin Levels in <i>Aspergillus flavus</i> -Resistant Maize Are Correlated With Increased Corn Earworm Damage and Enhanced Seed Fumonisin. <i>Frontiers in Plant Science</i> , 2020, 11, 565323.	3.6	6
83	Development of antibodies for N-(1-deoxy-D-fructos-1-yl) fumonisin B1 and cross-reaction with modified fumonisins. <i>World Mycotoxin Journal</i> , 2018, 11, 493-502.	1.4	5
84	Biosynthesis of <i>Fusarium</i> mycotoxins and genomics of <i>Fusarium verticillioides</i> . <i>Mycotoxin Research</i> , 2006, 22, 75-78.	2.3	4
85	Malformation Disease in <i>Tabebuia rosea</i> (Rosy Trumpet) Caused by <i>Fusarium pseudocircinatum</i> in Mexico. <i>Plant Disease</i> , 2021, 105, 2822-2829.	1.4	4
86	Rapid Detection Method for Fusaric Acid-producing Species of <i>Fusarium</i> by PCR. <i>Research in Plant Disease</i> , 2015, 21, 326-329.	0.8	4
87	<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. <i>Mycologia</i> , 2022, 114, 682-696.	1.9	4
88	Structural Characterization of Intact G Protein $\beta$ Subunits by Mass Spectrometry. <i>Methods in Enzymology</i> , 2002, 344, 586-597.	1.0	2
89	Weeds Harbor <i>Fusarium</i> Species that Cause Malformation Disease of Economically Important Trees in Western Mexico. <i>Plant Disease</i> , 2022, 106, 612-622.	1.4	1
90	Fumonsins in materials related to ethanol production from corn. <i>ACS Symposium Series</i> , 2010, , 237-246.	0.5	0