

# Mark R Marten

## List of Publications by Year in descending order

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58  
papers

5,054  
citations

186265

28  
h-index

161849

54  
g-index

59  
all docs

59  
docs citations

59  
times ranked

11713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Autophagy in filamentous fungi. <i>Fungal Genetics and Biology</i> , 2009, 46, 1-8.	2.1	160
3	Proteomics of filamentous fungi. <i>Trends in Biotechnology</i> , 2007, 25, 395-400.	9.3	133
4	Solubilization of Trichloroacetic Acid (TCA) Precipitated Microbial Proteins via NaOH for Two-Dimensional Electrophoresis. <i>Journal of Proteome Research</i> , 2003, 2, 89-93.	3.7	113
5	Quantitative comparison and evaluation of two commercially available, two-dimensional electrophoresis image analysis software packages, Z3 and Melanie. <i>Electrophoresis</i> , 2002, 23, 2194.	2.4	110
6	Elastic Properties of the Cell Wall of <i>Aspergillus nidulans</i> Studied with Atomic Force Microscopy. <i>Biotechnology Progress</i> , 2008, 21, 292-299.	2.6	95
7	Proteome Analysis of Membrane and Cell Wall Associated Proteins from <i>Staphylococcus aureus</i> . <i>Journal of Proteome Research</i> , 2005, 4, 250-257.	3.7	83
8	Fungal morphology and fragmentation behavior in a fed-batch <i>Aspergillus oryzae</i> fermentation at the production scale. <i>Biotechnology and Bioengineering</i> , 2000, 70, 300-312.	3.3	82
9	Proteomic Analysis of Extracellular Proteins from <i>Escherichia coli</i> W3110. <i>Journal of Proteome Research</i> , 2006, 5, 1155-1161.	3.7	69
10	Assessment of Elasticity and Topography of <i>Aspergillus nidulans</i> Spores via Atomic Force Microscopy. <i>Applied and Environmental Microbiology</i> , 2005, 71, 955-960.	3.1	58
11	Comparison of lysis methods and preparation protocols for one- and two-dimensional electrophoresis of <i>Aspergillus oryzae</i> intracellular proteins. <i>Electrophoresis</i> , 2002, 23, 2216.	2.4	54
12	Proteome map of <i>Aspergillus nidulans</i> during osmoadaptation. <i>Fungal Genetics and Biology</i> , 2007, 44, 886-895.	2.1	51
13	Kinetic model for batch cellulase production by <i>Trichoderma reesei</i> RUT C30. <i>Journal of Biotechnology</i> , 1997, 54, 83-94.	3.8	46
14	Selection of bioprocess simulation software for industrial applications. <i>Biotechnology and Bioengineering</i> , 2001, 72, 483-489.	3.3	46
15	Effects of Increased Impeller Power in a Production-Scale <i>Aspergillus oryzae</i> Fermentation. <i>Biotechnology Progress</i> , 2002, 18, 437-444.	2.6	45
16	Estimation of hyphal tensile strength in production-scale <i>Aspergillus oryzae</i> fungal fermentations. <i>Biotechnology and Bioengineering</i> , 2002, 77, 601-613.	3.3	44
17	Pulsed feeding during fed-batch fungal fermentation leads to reduced viscosity without detrimentally affecting protein expression. <i>Biotechnology and Bioengineering</i> , 2003, 81, 341-347.	3.3	41
18	Pulsed addition of limiting-carbon during <i>Aspergillus oryzae</i> fermentation leads to improved productivity of a recombinant enzyme. <i>Biotechnology and Bioengineering</i> , 2003, 82, 111-117.	3.3	41

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19	Microbial nar-GFP cell sensors reveal oxygen limitations in highly agitated and aerated laboratory-scale fermentors. <i>Microbial Cell Factories</i> , 2009, 8, 6.	4.0	40
20	The state of proteome profiling in the fungal genus <i>Aspergillus</i> . <i>Briefings in Functional Genomics &amp; Proteomics</i> , 2008, 7, 87-94.	3.8	38
21	Fungal mycelia show lag time before re-growth on endogenous carbon. <i>Biotechnology and Bioengineering</i> , 2008, 100, 458-465.	3.3	36
22	Proteomic analysis of <i>Staphylococcus aureus</i> biofilm cells grown under physiologically relevant fluid shear stress conditions. <i>Proteome Science</i> , 2014, 12, 21.	1.7	36
23	Quantifying Metabolic Activity of Filamentous Fungi Using a Colorimetric XTT Assay. <i>Biotechnology Progress</i> , 2008, 24, 780-783.	2.6	35
24	Comprehensive Analysis of <i>Aspergillus nidulans</i> PKA Phosphorylome Identifies a Novel Mode of CreA Regulation. <i>MBio</i> , 2019, 10, .	4.1	35
25	Feast or famine: autophagy control and engineering in eukaryotic cell culture. <i>Current Opinion in Biotechnology</i> , 2008, 19, 518-526.	6.6	32
26	Proteome analysis to assess physiological changes in <i>Escherichia coli</i> grown under glucose-limited fed-batch conditions. <i>Biotechnology and Bioengineering</i> , 2005, 92, 384-392.	3.3	31
27	Autophagy induced by rapamycin and carbon-starvation have distinct proteome profiles in <i>Aspergillus nidulans</i> . <i>Biotechnology and Bioengineering</i> , 2011, 108, 2705-2715.	3.3	31
28	Rheological, Mass Transfer, and Mixing Characterization of Cellulase-Producing <i>Trichoderma reesei</i> Suspensions. <i>Biotechnology Progress</i> , 1996, 12, 602-611.	2.6	28
29	Using Computational Fluid Dynamics Software to Estimate Circulation Time Distributions in Bioreactors. <i>Biotechnology Progress</i> , 2003, 19, 1480-1486.	2.6	28
30	The <i>Aspergillus fumigatus</i> Phosphoproteome Reveals Roles of High-Osmolarity Glycerol Mitogen-Activated Protein Kinases in Promoting Cell Wall Damage and Caspofungin Tolerance. <i>MBio</i> , 2020, 11, .	4.1	27
31	Optical analysis of liquid mixing in a minibioreactor. <i>Biotechnology and Bioengineering</i> , 2006, 93, 906-911.	3.3	26
32	Pulsed Feeding during Fed-Batch <i>Aspergillus oryzae</i> Fermentation Leads to Improved Oxygen Mass Transfer. <i>Biotechnology Progress</i> , 2003, 19, 1091-1094.	2.6	24
33	Effect of cycle time on fungal morphology, broth rheology, and recombinant enzyme productivity during pulsed addition of limiting carbon source. <i>Biotechnology and Bioengineering</i> , 2005, 89, 524-529.	3.3	24
34	Optimal control strategy for fed-batch enzymatic hydrolysis of lignocellulosic biomass based on epidemic modeling. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1376-1382.	3.3	21
35	The phosphoproteome of <i>Aspergillus nidulans</i> reveals functional association with cellular processes involved in morphology and secretion. <i>Proteomics</i> , 2014, 14, 2454-2459.	2.2	20
36	Proteome Analyses of <i>Staphylococcus aureus</i> Biofilm at Elevated Levels of NaCl. <i>Clinical Microbiology (Los Angeles, Calif)</i> , 2015, 04, .	0.2	20

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37	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1-7.	2.2	19
38	Protein Image Alignment via Piecewise Affine Transformations. <i>Journal of Computational Biology</i> , 2006, 13, 614-630.	1.6	15
39	In silico reconstruction of nutrient-sensing signal transduction pathways in <i>Aspergillus nidulans</i> . In <i>Silico Biology</i> , 2004, 4, 605-31.	0.9	14
40	Cost-effective isobaric tagging for quantitative phosphoproteomics using DiART reagents. <i>Molecular BioSystems</i> , 2013, 9, 2981.	2.9	9
41	Changes in tendon spatial frequency parameters with loading. <i>Journal of Biomechanics</i> , 2017, 57, 136-140.	2.1	9
42	Phosphoproteomic and transcriptomic analyses reveal multiple functions for <i>Aspergillus nidulans</i> MpkA independent of cell wall stress. <i>Fungal Genetics and Biology</i> , 2019, 125, 1-12.	2.1	7
43	Effects of temperature and cycloheximide on secretion of cloned invertase from recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 1995, 46, 627-630.	3.3	6
44	Novel and cost-effective 6-plex isobaric tagging reagent, DiART, is effective for identification and relative quantification of complex protein mixtures using PQD fragmentation. <i>Journal of Mass Spectrometry</i> , 2013, 48, 1032-1041.	1.6	6
45	Insights regarding fungal phosphoproteomic analysis. <i>Fungal Genetics and Biology</i> , 2017, 104, 38-44.	2.1	6
46	Altered secretion patterns and cell wall organization caused by loss of PodB function in the filamentous fungus <i>Aspergillus nidulans</i> . <i>Scientific Reports</i> , 2018, 8, 11433.	3.3	6
47	Discovery of treatment for nerve agents targeting a new metabolic pathway. <i>Archives of Toxicology</i> , 2020, 94, 3249-3264.	4.2	6
48	Dynamic Transcriptomic and Phosphoproteomic Analysis During Cell Wall Stress in <i>Aspergillus nidulans</i> . <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1310-1329.	3.8	6
49	Micafungin-Induced Cell Wall Damage Stimulates Morphological Changes Consistent with Microcycle Conidiation in <i>Aspergillus nidulans</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 525.	3.5	6
50	Confocal Optical System: A Novel Noninvasive Sensor To Study Mixing. <i>Biotechnology Progress</i> , 2005, 21, 1531-1536.	2.6	5
51	A fast and simple method to estimate relative, hyphal tensile strength of filamentous fungi used to assess the effect of autophagy. <i>Biotechnology and Bioengineering</i> , 2018, 115, 597-605.	3.3	3
52	A method for fractionation of cloned protein in recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1989, 3, 325-328.	0.5	2
53	Steady and dynamic shear characterization of cellulase-producing <i>Trichoderma reesei</i> suspensions. <i>Applied Biochemistry and Biotechnology</i> , 1995, 51-52, 319-328.	2.9	2
54	<i>Aspergillus nidulans</i> Septa Are Indispensable for Surviving Cell Wall Stress. <i>Microbiology Spectrum</i> , 2022, 10, e0206321.	3.0	2

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55	Localization of cloned invertase in <i>Saccharomyces cerevisiae</i> directed by the SUC2 and MF1±1 signal sequences. <i>Biotechnology and Bioengineering</i> , 1990, 35, 751-751.	3.3	0
56	Biological Systems Engineering: An Overview. ACS Symposium Series, 2002, , 1-6.	0.5	0
57	American Chemical Society: Division of Biochemical Technology (BIOT). <i>Biotechnology Progress</i> , 2008, 24, 487-487.	2.6	0
58	Decoding the Role of Serum IL-12 as a Prognostic Biomarker in Pegylated IFN- $\alpha$ -2a /Ribavirin- Treated Chronic Hepatitis C Patients Using Luminex Xmap Technology. <i>Advanced Research in Gastroenterology &amp; Hepatology</i> , 2017, 2, .	0.0	0