

Matthew P Padula

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6359232/publications.pdf>

Version: 2024-02-01

114
papers

3,189
citations

109321

35
h-index

189892

50
g-index

120
all docs

120
docs citations

120
times ranked

3624
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon: Potential to Promote Direct and Indirect Effects on Plant Defense Against Arthropod Pests in Agriculture. <i>Frontiers in Plant Science</i> , 2016, 7, 744.	3.6	204
2	Proteomics and Phylogenetic Analysis of the Cathepsin L Protease Family of the Helminth Pathogen <i>Fasciola hepatica</i> . <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1111-1123.	3.8	118
3	Diversity of peptide toxins from stinging ant venoms. <i>Toxicon</i> , 2014, 92, 166-178.	1.6	92
4	An Atypical Parvovirus Drives Chronic Tubulointerstitial Nephropathy and Kidney Fibrosis. <i>Cell</i> , 2018, 175, 530-543.e24.	28.9	89
5	Elongation factor Tu is a multifunctional and processed moonlighting protein. <i>Scientific Reports</i> , 2017, 7, 11227.	3.3	82
6	A Processed Multidomain <i>Mycoplasma hyopneumoniae</i> Adhesin Binds Fibronectin, Plasminogen, and Swine Respiratory Cilia. <i>Journal of Biological Chemistry</i> , 2010, 285, 33971-33978.	3.4	77
7	Mhp182 (P102) binds fibronectin and contributes to the recruitment of plasmin(ogen) to the <i>Mycoplasma hyopneumoniae</i> cell surface. <i>Cellular Microbiology</i> , 2012, 14, 81-94.	2.1	76
8	Repeat regions R1 and R2 in the P97 paralogue Mhp271 of <i>Mycoplasma hyopneumoniae</i> bind heparin, fibronectin and porcine cilia. <i>Molecular Microbiology</i> , 2010, 78, 444-458.	2.5	74
9	Collagenolytic Activities of the Major Secreted Cathepsin L Peptidases Involved in the Virulence of the Helminth Pathogen, <i>Fasciola hepatica</i> . <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1012.	3.0	66
10	Methylation of translation-associated proteins in <i>Saccharomyces cerevisiae</i> : Identification of methylated lysines and their methyltransferases. <i>Proteomics</i> , 2012, 12, 960-972.	2.2	59
11	MHJ_0461 is a multifunctional leucine aminopeptidase on the surface of <i>Mycoplasma hyopneumoniae</i> . <i>Open Biology</i> , 2015, 5, 140175.	3.6	59
12	Specific non-peroxide antibacterial effect of manuka honey on the <i>Staphylococcus aureus</i> proteome. <i>International Journal of Antimicrobial Agents</i> , 2012, 40, 43-50.	2.5	58
13	MHJ_0125 is an M42 glutamyl aminopeptidase that moonlights as a multifunctional adhesin on the surface of <i>Mycoplasma hyopneumoniae</i> . <i>Open Biology</i> , 2013, 3, 130017.	3.6	58
14	Red-back spider (<i>Latrodectus hasselti</i>) antivenom prevents the toxicity of widow spider venoms. <i>Annals of Emergency Medicine</i> , 2001, 37, 154-160.	0.6	55
15	Identification of Lipoprotein MslA as a Neoteric Virulence Factor of <i>Mycoplasma gallisepticum</i> . <i>Infection and Immunity</i> , 2010, 78, 3475-3483.	2.2	54
16	Characterization of Cleavage Events in the Multifunctional Cilium Adhesin Mhp684 (P146) Reveals a Mechanism by Which <i>Mycoplasma hyopneumoniae</i> Regulates Surface Topography. <i>MBio</i> , 2012, 3, .	4.1	54
17	The quest for improved reproducibility in MALDI mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018, 37, 217-228.	5.4	54
18	Post-translational processing targets functionally diverse proteins in <i>Mycoplasma hyopneumoniae</i> . <i>Open Biology</i> , 2016, 6, 150210.	3.6	53

#	ARTICLE	IF	CITATIONS
19	<i>Mycoplasma hyopneumoniae</i> Surface Proteins Mhp385 and Mhp384 Bind Host Cilia and Glycosaminoglycans and Are Endoproteolytically Processed by Proteases That Recognize Different Cleavage Motifs. <i>Journal of Proteome Research</i> , 2012, 11, 1924-1936.	3.7	52
20	Cryopreservation alters the membrane and cytoskeletal protein profile of platelet microparticles. <i>Transfusion</i> , 2015, 55, 2422-2432.	1.6	52
21	P159 from <i>Mycoplasma hyopneumoniae</i> Binds Porcine Cilia and Heparin and Is Cleaved in a Manner Akin to Ectodomain Shedding. <i>Journal of Proteome Research</i> , 2013, 12, 5891-5903.	3.7	49
22	Proteome Analysis Reveals Extensive Light Stress-Response Reprogramming in the Seagrass <i>Zostera muelleri</i> (Alismatales, Zosteraceae) Metabolism. <i>Frontiers in Plant Science</i> , 2016, 7, 2023.	3.6	48
23	Sequence TTKFâ†“QE Defines the Site of Proteolytic Cleavage in Mhp683 Protein, a Novel Glycosaminoglycan and Cilium Adhesin of <i>Mycoplasma hyopneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 41217-41229.	3.4	47
24	Mhp107 Is a Member of the Multifunctional Adhesin Family of <i>Mycoplasma hyopneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 10097-10104.	3.4	46
25	Refrigerated storage of platelets initiates changes in platelet surface marker expression and localization of intracellular proteins. <i>Transfusion</i> , 2016, 56, 2548-2559.	1.6	46
26	Coomassie blue staining for high sensitivity gel-based proteomics. <i>Journal of Proteomics</i> , 2013, 90, 96-106.	2.4	45
27	Topâ€down proteomics: Enhancing 2D gel electrophoresis from tissue processing to highâ€sensitivity protein detection. <i>Proteomics</i> , 2014, 14, 872-889.	2.2	45
28	Proteome analysis of multidrugâ€resistant, breast cancerâ€derived microparticles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, .	12.2	45
29	The Role of CD44 and ERM Proteins in Expression and Functionality of P-glycoprotein in Breast Cancer Cells. <i>Molecules</i> , 2016, 21, 290.	3.8	45
30	Proteomic analysis of intra-arterial thrombus secretions reveals a negative association of clusterin and thrombospondin-1 with abdominal aortic aneurysm. <i>Atherosclerosis</i> , 2011, 219, 432-439.	0.8	42
31	Considerations for amino acid analysis by liquid chromatography-tandem mass spectrometry: A tutorial review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 131, 116018.	11.4	41
32	Perspectives for Glyco-Engineering of Recombinant Biopharmaceuticals from Microalgae. <i>Cells</i> , 2020, 9, 633.	4.1	41
33	Proteomic and biophysical analyses reveal a metabolic shift in nitrogen deprived <i>Nannochloropsis oculata</i> . <i>Algal Research</i> , 2016, 19, 1-11.	4.6	39
34	Immunoproteomic Approach to Elucidating the Pathogenesis of Cryptococcosis Caused by <i>Cryptococcus gattii</i> . <i>Journal of Proteome Research</i> , 2010, 9, 3832-3841.	3.7	38
35	Proteolytic processing of the cilium adhesin MHJ_0194 (P123 _J) in <i>Mycoplasma hyopneumoniae</i> generates a functionally diverse array of cleavage fragments that bind multiple host molecules. <i>Cellular Microbiology</i> , 2015, 17, 425-444.	2.1	37
36	A Therapeutic Potential for Marine Skeletal Proteins in Bone Regeneration. <i>Marine Drugs</i> , 2013, 11, 1203-1220.	4.6	36

#	ARTICLE	IF	CITATIONS
37	Cilium Adhesin P216 (MHJ_0493) Is a Target of Ectodomain Shedding and Aminopeptidase Activity on the Surface of <i>Mycoplasma hyopneumoniae</i> . <i>Journal of Proteome Research</i> , 2014, 13, 2920-2930.	3.7	36
38	A Comprehensive Guide for Performing Sample Preparation and Top-Down Protein Analysis. <i>Proteomes</i> , 2017, 5, 11.	3.5	36
39	Analysis of formalin-fixed, paraffin-embedded (FFPE) tissue via proteomic techniques and misconceptions of antigen retrieval. <i>BioTechniques</i> , 2016, 60, 229-238.	1.8	35
40	N-terminomics identifies widespread endoproteolysis and novel methionine excision in a genome-reduced bacterial pathogen. <i>Scientific Reports</i> , 2017, 7, 11063.	3.3	35
41	Detection of the suspected neurotoxin β -methylamino-L-alanine (BMAA) in cyanobacterial blooms from multiple water bodies in Eastern Australia. <i>Harmful Algae</i> , 2018, 74, 10-18.	4.8	34
42	Refrigeration, cryopreservation and pathogen inactivation: an updated perspective on platelet storage conditions. <i>Vox Sanguinis</i> , 2018, 113, 317-328.	1.5	32
43	Deep Imaging: How Much of the Proteome Does Current Top-Down Technology Already Resolve?. <i>PLoS ONE</i> , 2014, 9, e86058.	2.5	31
44	Extracellular Actin Is a Receptor for <i>Mycoplasma hyopneumoniae</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 54.	3.9	30
45	<i>Cryptococcus</i> Strains with Different Pathogenic Potentials Have Diverse Protein Secretomes. <i>Eukaryotic Cell</i> , 2015, 14, 554-563.	3.4	28
46	The application of terminomics for the identification of protein start sites and proteoforms in bacteria. <i>Proteomics</i> , 2016, 16, 257-272.	2.2	28
47	A Mitochondrial Specific Antioxidant Reverses Metabolic Dysfunction and Fatty Liver Induced by Maternal Cigarette Smoke in Mice. <i>Nutrients</i> , 2019, 11, 1669.	4.1	28
48	What is Normalization? The Strategies Employed in Top-Down and Bottom-Up Proteome Analysis Workflows. <i>Proteomes</i> , 2019, 7, 29.	3.5	27
49	Cryopreserved platelets demonstrate reduced activation responses and impaired signaling after agonist stimulation. <i>Transfusion</i> , 2017, 57, 2845-2857.	1.6	26
50	Analysis of <i>Theileria orientalis</i> draft genome sequences reveals potential species-level divergence of the Ikeda, Chitose and Buffeli genotypes. <i>BMC Genomics</i> , 2018, 19, 298.	2.8	24
51	Broad scale proteomic analysis of heat-destabilised symbiosis in the hard coral <i>Acropora millepora</i> . <i>Scientific Reports</i> , 2021, 11, 19061.	3.3	23
52	Murine and related chapparvoviruses are nephro-tropic and produce novel accessory proteins in infected kidneys. <i>PLoS Pathogens</i> , 2020, 16, e1008262.	4.7	23
53	Combined Peptidomic and Proteomic Analysis of Electrically Stimulated and Manually Dissected Venom from the South American Bullet Ant <i>Paraponera clavata</i> . <i>Journal of Proteome Research</i> , 2017, 16, 1339-1351.	3.7	22
54	Proteogenomic mapping of <i>Mycoplasma hyopneumoniae</i> virulent strain 232. <i>BMC Genomics</i> , 2014, 15, 576.	2.8	20

#	ARTICLE	IF	CITATIONS
55	A versatile cost-effective method for the analysis of fresh frozen tissue sections via matrix-assisted laser desorption/ionisation imaging mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 637-644.	1.5	20
56	Comparisons of Protein and Peptide Complexity in Poneroid and Formicoid Ant Venoms. <i>Journal of Proteome Research</i> , 2016, 15, 3039-3054.	3.7	20
57	Development of an Efficient Protein Extraction Method Compatible with LC-MS/MS for Proteome Mapping in Two Australian Seagrasses <i>Zostera muelleri</i> and <i>Posidonia australis</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1416.	3.6	20
58	The impact of refrigerated storage of UVC pathogen inactivated platelet concentrates on <i>in vitro</i> platelet quality parameters. <i>Vox Sanguinis</i> , 2019, 114, 47-56.	1.5	18
59	An Integrated Proteomic and Transcriptomic Analysis Reveals the Venom Complexity of the Bullet Ant <i>Paraponera clavata</i> . <i>Toxins</i> , 2020, 12, 324.	3.4	18
60	P40 and P90 from Mpn142 are Targets of Multiple Processing Events on the Surface of <i>Mycoplasma pneumoniae</i> . <i>Proteomes</i> , 2015, 3, 512-537.	3.5	17
61	HPLC MS-MS Analysis Shows Measurement of Corticosterone in Egg Albumen Is Not a Valid Indicator of Chicken Welfare. <i>Animals</i> , 2020, 10, 821.	2.3	17
62	Time-Course Proteome Analysis Reveals the Dynamic Response of <i>Cryptococcus gattii</i> Cells to Fluconazole. <i>PLoS ONE</i> , 2012, 7, e42835.	2.5	17
63	Proteomic Analysis of Human Adipose Derived Stem Cells during Small Molecule Chemical Stimulated Pre-neuronal Differentiation. <i>International Journal of Stem Cells</i> , 2017, 10, 193-217.	1.8	17
64	Proteomic and genomic analyses suggest the association of apolipoprotein C1 with abdominal aortic aneurysm. <i>Proteomics - Clinical Applications</i> , 2014, 8, 762-772.	1.6	16
65	A non-instrument-based method for the analysis of formalin-fixed paraffin-embedded human spinal cord via matrix-assisted laser desorption/ionisation imaging mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1836-1840.	1.5	16
66	Comparative proteomic analysis of two pathogenic <i>Trichostrongylus axei</i> genotypes: there is more to the proteome than meets the eye. <i>International Journal for Parasitology</i> , 2017, 47, 203-213.	3.1	16
67	Cell surface processing of the P1 adhesin of <i>Mycoplasma pneumoniae</i> identifies novel domains that bind host molecules. <i>Scientific Reports</i> , 2020, 10, 6384.	3.3	16
68	Cryopreservation of UVC pathogen-inactivated platelets. <i>Transfusion</i> , 2019, 59, 2093-2102.	1.6	15
69	The Lipid Composition of Platelets and the Impact of Storage: An Overview. <i>Transfusion Medicine Reviews</i> , 2020, 34, 108-116.	2.0	15
70	Proteomic Analysis of Extracellular HMGB1 Identifies Binding Partners and Exposes Its Potential Role in Airway Epithelial Cell Homeostasis. <i>Journal of Proteome Research</i> , 2018, 17, 33-45.	3.7	14
71	Challenges, Current Status and Future Perspectives of Proteomics in Improving Understanding, Diagnosis and Treatment of Vascular Disease. <i>European Journal of Vascular and Endovascular Surgery</i> , 2009, 38, 346-355.	1.5	13
72	Selectively-Packaged Proteins in Breast Cancer Extracellular Vesicles Involved in Metastasis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4990.	4.1	13

#	ARTICLE	IF	CITATIONS
73	Calcium chelation: a novel approach to reduce cryopreservation-induced damage to frozen platelets. <i>Transfusion</i> , 2020, 60, 1552-1563.	1.6	12
74	<i>Mycoplasma hyopneumoniae</i> surface-associated proteases cleave bradykinin, substance P, neurokinin A and neuropeptide Y. <i>Scientific Reports</i> , 2019, 9, 14585.	3.3	11
75	Extended storage of thawed platelets: Refrigeration supports postthaw quality for 10% days. <i>Transfusion</i> , 2020, 60, 2969-2981.	1.6	11
76	The Characterization of Laser Ablation Patterns and a New Definition of Resolution in Matrix Assisted Laser Desorption Ionization Imaging Mass Spectrometry (MALDI-IMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 895-900.	2.8	10
77	Higher Mass Accuracy MALDI-TOF/TOF Lipid Imaging of Human Brain Tissue in Alzheimer's Disease. <i>Current Protocols in Molecular Biology</i> , 2019, 126, e86.	2.9	10
78	Characterizing the ability of an ice recrystallization inhibitor to improve platelet cryopreservation. <i>Cryobiology</i> , 2020, 96, 152-158.	0.7	10
79	Proteomic Analysis of Cyclic Ketamine Compounds Ability to Induce Neural Differentiation in Human Adult Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 523.	4.1	9
80	A novel method to detect translation of membrane proteins following microvesicle intercellular transfer of nucleic acids. <i>Journal of Biochemistry</i> , 2016, 160, 281-289.	1.7	8
81	A new standard of visual data representation for imaging mass spectrometry. <i>Proteomics - Clinical Applications</i> , 2017, 11, 1600098.	1.6	8
82	Winery waste valorisation as microalgae culture medium: A step forward for food circular economy. <i>Separation and Purification Technology</i> , 2022, 293, 121088.	7.9	8
83	Separation of intact proteins by capillary electrophoresis. <i>Analyst, The</i> , 2022, 147, 2988-2996.	3.5	8
84	Characterisation and Bioactivity Analysis of Peridinin-Chlorophyll a-Protein (PCP) Isolated from <i>Symbiodinium tridacnidorum</i> CS-73. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1387.	2.6	7
85	Enhancing Coverage of Phosphatidylinositol Species in Canola Through Specialised Liquid Chromatography-Mass Spectrometry Buffer Conditions. <i>Journal of Chromatography A</i> , 2021, 1637, 461860.	3.7	6
86	Evaluation of Filter, Paramagnetic, and STAGETips Aided Workflows for Proteome Profiling of <i>Symbiodiniaceae</i> Dinoflagellate. <i>Processes</i> , 2021, 9, 983.	2.8	6
87	Acetonitrile adduct analysis of underivatised amino acids offers improved sensitivity for hydrophilic interaction liquid chromatography tandem mass-spectrometry. <i>Journal of Chromatography A</i> , 2021, 1655, 462530.	3.7	6
88	Micropreparative fractionation of the complexome by blue native continuous elution electrophoresis. <i>Proteomics</i> , 2009, 9, 2494-2502.	2.2	5
89	Label-Free, Real-Time Phospholipase-A Isoform Assay. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4714-4721.	5.2	5
90	Triple SILAC identified progesterin-independent and dependent PRA and PRB interacting partners in breast cancer. <i>Scientific Data</i> , 2021, 8, 100.	5.3	5

#	ARTICLE	IF	CITATIONS
91	Quality control of A1-free dairy. Food Control, 2022, 135, 108685.	5.5	5
92	Optimal Preparation of Formalin Fixed Samples for Peptide Based Matrix Assisted Laser Desorption/Ionization Mass Spectrometry Imaging Workflows. Journal of Visualized Experiments, 2018, , .	0.3	4
93	“What did I do wrong?” An empirical evaluation of sample preparation methodologies in matrix-assisted laser desorption/ionization-mass spectrometry imaging. Future Science OA, 2019, 5, .	1.9	4
94	Protein cleavage influences surface protein presentation in Mycoplasma pneumoniae. Scientific Reports, 2021, 11, 6743.	3.3	4
95	Misincorporation Proteomics Technologies: A Review. Proteomes, 2021, 9, 2.	3.5	4
96	Cryopreservation alters the immune characteristics of platelets. Transfusion, 2021, 61, 3432-3442.	1.6	4
97	A Systems Biology Approach to Understanding the Mechanisms of Action of an Alternative Anticancer Compound in Comparison to Cisplatin. Proteomes, 2014, 2, 501-526.	3.5	3
98	Terminomics Methodologies and the Completeness of Reductive Dimethylation: A Meta-Analysis of Publicly Available Datasets. Proteomes, 2019, 7, 11.	3.5	3
99	Unassembled cell wall proteins form aggregates in the extracellular space of Chlamydomonas reinhardtii strain UVM4. Applied Microbiology and Biotechnology, 2022, 106, 4145-4156.	3.6	3
100	Formylated N-terminal methionine is absent from the Mycoplasma hyopneumoniae proteome: Implications for translation initiation. International Journal of Medical Microbiology, 2019, 309, 288-298.	3.6	2
101	Reporting of Hybrid Data and the Difficulties with Cross-Discipline Research Techniques. Proteomes, 2020, 8, 35.	3.5	2
102	The immune potential of <i>ex vivo</i> stored platelets: a review. Vox Sanguinis, 2021, 116, 477-488.	1.5	2
103	A Novel Method for Creating a Synthetic L-DOPA Proteome and In Vitro Evidence of Incorporation. Proteomes, 2021, 9, 24.	3.5	2
104	Matrix phase fractionation: Investigating the compromise between dynamic range of analyte extraction and spatial resolution in mass spectrometry imaging. Rapid Communications in Mass Spectrometry, 2021, 35, e9106.	1.5	2
105	You are what you secrete: extracellular proteins and virulence in Cryptococcus. Microbiology Australia, 2015, 36, 93.	0.4	2
106	Quantitative Proteomic Profiling of Small Molecule Treated Mesenchymal Stem Cells Using Chemical Probes. International Journal of Molecular Sciences, 2021, 22, 160.	4.1	2
107	A New Role for Marine Skeletal Proteins in Regenerative Orthopaedics. Key Engineering Materials, 0, 529-530, 654-659.	0.4	1
108	Special Issue “Top-down Proteomics: In Memory of Dr Alfred Yergey”, Alfred Linwood Yergey, III, 17 September 1941–27 May 2018. Proteomes, 2020, 8, 1.	3.5	1

#	ARTICLE	IF	CITATIONS
109	Characterisation of Bone Beneficial Components from Australian Wallaby Bone. Medicines (Basel,) Tj ETQq1 1 0.784314 rgBT ₀ /Overlook	1.4	0
110	The Effect of Collimating Lens Focusing on Laser Beam Shape in Matrix Assisted Laser Desorption/Ionization Mass Spectrometry (MALDI-MS). Journal of the American Society for Mass Spectrometry, 2018, 29, 512-515.	2.8	0
111	An Inexpensive, simple calibration method for MALDI TOF/TOF systems. Journal of Mass Spectrometry, 2019, 54, 1003-1007.	1.6	0
112	Structural characterization of protein toxins from Australian snake venoms using native mass spectrometry. Toxicon, 2019, 158, S43.	1.6	0
113	Fungal Lung Infection : Understanding Cryptococcus Gattii Infection and the Challenges of Mixed Proteomes. Journal of Proteomics and Bioinformatics, 2008, S2, 097-098.	0.4	0
114	Cold storage alters the immune characteristics of platelets and potentiates bacterial-induced aggregation. Vox Sanguinis, 2022, , .	1.5	0