

Matthew P Padula

List of Publications by Year in descending order

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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	Quality control of A1-free dairy. Food Control, 2022, 135, 108685.	5.5	5
2	Winery waste valorisation as microalgae culture medium: A step forward for food circular economy. Separation and Purification Technology, 2022, 293, 121088.	7.9	8
3	Cold storage alters the immune characteristics of platelets and potentiates bacterial-induced aggregation. Vox Sanguinis, 2022, , .	1.5	0
4	Separation of intact proteins by capillary electrophoresis. Analyst, The, 2022, 147, 2988-2996.	3.5	8
5	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
6	The immune potential of <i>ex vivo</i> stored platelets: a review. Vox Sanguinis, 2021, 116, 477-488.	1.5	2
7	Enhancing Coverage of Phosphatidylinositol Species in Canola Through Specialised Liquid Chromatography-Mass Spectrometry Buffer Conditions. Journal of Chromatography A, 2021, 1637, 461860.	3.7	6
8	Protein cleavage influences surface protein presentation in Mycoplasma pneumoniae. Scientific Reports, 2021, 11, 6743.	3.3	4
9	Triple SILAC identified progesterin-independent and dependent PRA and PRB interacting partners in breast cancer. Scientific Data, 2021, 8, 100.	5.3	5
10	A Novel Method for Creating a Synthetic L-DOPA Proteome and In Vitro Evidence of Incorporation. Proteomes, 2021, 9, 24.	3.5	2
11	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
12	Evaluation of Filter, Paramagnetic, and STAGETips Aided Workflows for Proteome Profiling of Symbiodiniaceae Dinoflagellate. Processes, 2021, 9, 983.	2.8	6
13	Broad scale proteomic analysis of heat-destabilised symbiosis in the hard coral Acropora millepora. Scientific Reports, 2021, 11, 19061.	3.3	23
14	Acetonitrile adduct analysis of underivatised amino acids offers improved sensitivity for hydrophilic interaction liquid chromatography tandem mass-spectrometry. Journal of Chromatography A, 2021, 1655, 462530.	3.7	6
15	Misincorporation Proteomics Technologies: A Review. Proteomes, 2021, 9, 2.	3.5	4
16	Cryopreservation alters the immune characteristics of platelets. Transfusion, 2021, 61, 3432-3442.	1.6	4
17	Quantitative Proteomic Profiling of Small Molecule Treated Mesenchymal Stem Cells Using Chemical Probes. International Journal of Molecular Sciences, 2021, 22, 160.	4.1	2
18	Characterisation and Bioactivity Analysis of Peridinin-Chlorophyll a-Protein (PCP) Isolated from Symbiodinium tridacnidorum CS-73. Journal of Marine Science and Engineering, 2021, 9, 1387.	2.6	7

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19	The Lipid Composition of Platelets and the Impact of Storage: An Overview. <i>Transfusion Medicine Reviews</i> , 2020, 34, 108-116.	2.0	15
20	Selectively-Packaged Proteins in Breast Cancer Extracellular Vesicles Involved in Metastasis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4990.	4.1	13
21	Label-Free, Real-Time Phospholipase-A Isoform Assay. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4714-4721.	5.2	5
22	Characterizing the ability of an ice recrystallization inhibitor to improve platelet cryopreservation. <i>Cryobiology</i> , 2020, 96, 152-158.	0.7	10
23	Extended storage of thawed platelets: Refrigeration supports postthaw quality for 10% days. <i>Transfusion</i> , 2020, 60, 2969-2981.	1.6	11
24	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
25	Reporting of Hybrid Data and the Difficulties with Cross-Discipline Research Techniques. <i>Proteomes</i> , 2020, 8, 35.	3.5	2
26	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
27	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
28	Perspectives for Glyco-Engineering of Recombinant Biopharmaceuticals from Microalgae. <i>Cells</i> , 2020, 9, 633.	4.1	41
29	Special Issue "Top-down Proteomics: In Memory of Dr Alfred Yergey" Alfred Linwood Yergey, III, 17 September 1941–27 May 2018. <i>Proteomes</i> , 2020, 8, 1.	3.5	1
30	Calcium chelation: a novel approach to reduce cryopreservation-induced damage to frozen platelets. <i>Transfusion</i> , 2020, 60, 1552-1563.	1.6	12
31	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
32	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
33	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
34	<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
35	An Inexpensive, simple calibration method for MALDI TOF/TOF systems. <i>Journal of Mass Spectrometry</i> , 2019, 54, 1003-1007.	1.6	0
36	What is Normalization? The Strategies Employed in Top-Down and Bottom-Up Proteome Analysis Workflows. <i>Proteomes</i> , 2019, 7, 29.	3.5	27

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37	Terminomics Methodologies and the Completeness of Reductive Dimethylation: A Meta-Analysis of Publicly Available Datasets. <i>Proteomes</i> , 2019, 7, 11.	3.5	3
38	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
39	Structural characterization of protein toxins from Australian snake venoms using native mass spectrometry. <i>Toxicon</i> , 2019, 158, S43.	1.6	0
40	Formylated N-terminal methionine is absent from the <i>Mycoplasma hyopneumoniae</i> proteome: Implications for translation initiation. <i>International Journal of Medical Microbiology</i> , 2019, 309, 288-298.	3.6	2
41	Cryopreservation of UVC pathogen inactivated platelets. <i>Transfusion</i> , 2019, 59, 2093-2102.	1.6	15
42	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
43	“What did I do wrong?” An empirical evaluation of sample preparation methodologies in matrix-assisted laser desorption/ionization-mass spectrometry imaging. <i>Future Science OA</i> , 2019, 5, .	1.9	4
44	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
45	Refrigeration, cryopreservation and pathogen inactivation: an updated perspective on platelet storage conditions. <i>Vox Sanguinis</i> , 2018, 113, 317-328.	1.5	32
46	The Effect of Collimating Lens Focusing on Laser Beam Shape in Matrix Assisted Laser Desorption/Ionization Mass Spectrometry (MALDI-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 512-515.	2.8	0
47	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
48	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
49	Optimal Preparation of Formalin Fixed Samples for Peptide Based Matrix Assisted Laser Desorption/Ionization Mass Spectrometry Imaging Workflows. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
50	The quest for improved reproducibility in MALDI mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2018, 37, 217-228.	5.4	54
51	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
52	An Atypical Parvovirus Drives Chronic Tubulointerstitial Nephropathy and Kidney Fibrosis. <i>Cell</i> , 2018, 175, 530-543.e24.	28.9	89
53	Extracellular Actin Is a Receptor for <i>Mycoplasma hyopneumoniae</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 54.	3.9	30
54	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

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55	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
56	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
57	Cryopreserved platelets demonstrate reduced activation responses and impaired signaling after agonist stimulation. <i>Transfusion</i> , 2017, 57, 2845-2857.	1.6	26
58	Elongation factor Tu is a multifunctional and processed moonlighting protein. <i>Scientific Reports</i> , 2017, 7, 11227.	3.3	82
59	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
60	A new standard of visual data representation for imaging mass spectrometry. <i>Proteomics - Clinical Applications</i> , 2017, 11, 1600098.	1.6	8
61	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
62	A Comprehensive Guide for Performing Sample Preparation and Top-Down Protein Analysis. <i>Proteomes</i> , 2017, 5, 11.	3.5	36
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	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
65	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
66	Characterisation of Bone Beneficial Components from Australian Wallaby Bone. <i>Medicines (Basel)</i> , 2016, 14, 1010.	1.4	10
67	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
68	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
69	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
70	Post-translational processing targets functionally diverse proteins in <i>Mycoplasma hyopneumoniae</i> . <i>Open Biology</i> , 2016, 6, 150210.	3.6	53
71	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
72	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

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73	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
74	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
75	Cryopreservation alters the membrane and cytoskeletal protein profile of platelet microparticles. <i>Transfusion</i> , 2015, 55, 2422-2432.	1.6	52
76	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
77	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
78	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
79	<i>Cryptococcus</i> Strains with Different Pathogenic Potentials Have Diverse Protein Secretomes. <i>Eukaryotic Cell</i> , 2015, 14, 554-563.	3.4	28
80	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
81	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
82	You are what you secrete: extracellular proteins and virulence in <i>Cryptococcus</i> . <i>Microbiology Australia</i> , 2015, 36, 93.	0.4	2
83	Deep Imaging: How Much of the Proteome Does Current Top-Down Technology Already Resolve?. <i>PLoS ONE</i> , 2014, 9, e86058.	2.5	31
84	A Systems Biology Approach to Understanding the Mechanisms of Action of an Alternative Anticancer Compound in Comparison to Cisplatin. <i>Proteomes</i> , 2014, 2, 501-526.	3.5	3
85	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
86	Top-down proteomics: Enhancing 2D gel electrophoresis from tissue processing to high-sensitivity protein detection. <i>Proteomics</i> , 2014, 14, 872-889.	2.2	45
87	Diversity of peptide toxins from stinging ant venoms. <i>Toxicon</i> , 2014, 92, 166-178.	1.6	92
88	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
89	Proteogenomic mapping of <i>Mycoplasma hyopneumoniae</i> virulent strain 232. <i>BMC Genomics</i> , 2014, 15, 576.	2.8	20
90	Proteome analysis of multidrug-resistant, breast cancer-derived microparticles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, .	12.2	45

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91	A Therapeutic Potential for Marine Skeletal Proteins in Bone Regeneration. <i>Marine Drugs</i> , 2013, 11, 1203-1220.	4.6	36
92	Coomassie blue staining for high sensitivity gel-based proteomics. <i>Journal of Proteomics</i> , 2013, 90, 96-106.	2.4	45
93	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
94	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
95	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
96	<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
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	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
106	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
107	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
108	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

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109	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
110	Micropreparative fractionation of the complexome by blue native continuous elution electrophoresis. <i>Proteomics</i> , 2009, 9, 2494-2502.	2.2	5
111	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
112	Fungal Lung Infection : Understanding <i>Cryptococcus Gattii</i> Infection and the Challenges of Mixed Proteomes. <i>Journal of Proteomics and Bioinformatics</i> , 2008, S2, 097-098.	0.4	0
113	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
114	A New Role for Marine Skeletal Proteins in Regenerative Orthopaedics. <i>Key Engineering Materials</i> , 0, 529-530, 654-659.	0.4	1