

Mark W Duncan

List of Publications by Year in descending order

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106
papers

6,305
citations

61984

43
h-index

69250

77
g-index

109
all docs

109
docs citations

109
times ranked

7686
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress with geneâ€product mapping of the Mollicutes: <i>Mycoplasma genitalium</i>. Electrophoresis, 1995, 16, 1090-1094.	2.4	892
2	Chlorination of Tyrosyl Residues in Peptides by Myeloperoxidase and Human Neutrophils. Journal of Biological Chemistry, 1995, 270, 16542-16548.	3.4	303
3	Mass Spectrometry to Classify Nonâ€Small-Cell Lung Cancer Patients for Clinical Outcome After Treatment With Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitors: A Multicohort Cross-Institutional Study. Journal of the National Cancer Institute, 2007, 99, 838-846.	6.3	303
4	Protein-bound 3,4-dihydroxyphenylalanine is a major reductant formed during hydroxyl radical damage to proteins. Biochemistry, 1993, 32, 4780-4786.	2.5	188
5	Proteomic analysis of multiple sclerosis cerebrospinal fluid. Multiple Sclerosis Journal, 2004, 10, 245-260.	3.0	180
6	Quantitative matrix-assisted laser desorption/ionization mass spectrometry. Briefings in Functional Genomics & Proteomics, 2008, 7, 355-370.	3.8	180
7	A Genomic and Proteomic Analysis of Activation of the Human Neutrophil by Lipopolysaccharide and Its Mediation by p38 Mitogen-activated Protein Kinase. Journal of Biological Chemistry, 2002, 277, 31291-31302.	3.4	166
8	Practical quantitative biomedical applications of MALDI-TOF mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 1015-1027.	2.8	160
9	Cross-species identification of proteins separated by two-dimensional gel electrophoresis using matrix-assisted laser desorption ionisation/time-of-flight mass spectrometry and amino acid composition. Electrophoresis, 1995, 16, 438-443.	2.4	136
10	The pros and cons of peptide-centric proteomics. Nature Biotechnology, 2010, 28, 659-664.	17.5	130
11	A comprehensive characterization of the peptide and protein constituents of human seminal fluid. Prostate, 2004, 61, 171-181.	2.3	128
12	Quantitative analysis of low molecular weight compounds of biological interest by matrix-assisted laser desorption ionization. Rapid Communications in Mass Spectrometry, 1993, 7, 1090-1094.	1.5	125
13	Alpha-Linolenic Acid: An Omega-3 Fatty Acid with Neuroprotective Propertiesâ€Ready for Use in the Stroke Clinic?. BioMed Research International, 2015, 2015, 1-8.	1.9	116
14	Quantitative and qualitative differences in protein expression between papillary thyroid carcinoma and normal thyroid tissue. Molecular Carcinogenesis, 2006, 45, 613-626.	2.7	113
15	Measurements of protein carbonyls, ortho- and meta-tyrosine and oxidative phosphorylation complex activity in mitochondria from young and old rats. Free Radical Biology and Medicine, 2001, 31, 181-190.	2.9	112
16	Measurement of Norepinephrine and 3,4-Dihydroxyphenylglycol in Urine and Plasma for the Diagnosis of Pheochromocytoma. New England Journal of Medicine, 1988, 319, 136-142.	27.0	103
17	A review of approaches to the analysis of 3-nitrotyrosine. Amino Acids, 2003, 25, 351-361.	2.7	100
18	Effector activity of peanut allergens: a critical role for Ara h 2, Ara h 6, and their variants. Clinical and Experimental Allergy, 2009, 39, 1099-1108.	2.9	94

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19	Quantification of 3-nitrotyrosine in biological tissues and fluids: Generating valid results by eliminating artifactual formation. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 578-586.	2.8	91
20	Proteomic analysis of pulmonary edema fluid and plasma in patients with acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L1095-L1104.	2.9	91
21	Facilitated Transport of the Neurotoxin, ?-N-Methylamino-l-Alanine, Across the Blood-Brain Barrier. <i>Journal of Neurochemistry</i> , 1992, 58, 1330-1337.	3.9	88
22	Characterization of a Mechanism-Based Inhibitor of NAD(P)H:Quinone Oxidoreductase 1 by Biochemical, X-ray Crystallographic, and Mass Spectrometric Approaches. <i>Biochemistry</i> , 2001, 40, 15135-15142.	2.5	87
23	Utility of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the analysis of low molecular weight compounds. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 128-132.	1.5	79
24	Measurement of the NO metabolites, nitrite and nitrate, in human biological fluids by GC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 851, 83-92.	2.3	77
25	Quantifying proteins by mass spectrometry: The selectivity of SRM is only part of the problem. <i>Proteomics</i> , 2009, 9, 1124-1127.	2.2	71
26	Proteomic analysis of mature adipocytes from obese patients in relation to aging. <i>Experimental Gerontology</i> , 2013, 48, 1196-1203.	2.8	69
27	Plasma Protein Profiling of Mild Cognitive Impairment and Alzheimer's Disease Across Two Independent Cohorts. <i>Journal of Alzheimer's Disease</i> , 2014, 43, 1355-1373.	2.6	68
28	The 2S albumin allergens of <i>Arachis hypogaea</i> , Ara h 2 and Ara h 6, are the major elicitors of anaphylaxis and can effectively desensitize peanut allergic mice. <i>Clinical and Experimental Allergy</i> , 2012, 42, 326-336.	2.9	67
29	Applications of MALDI Mass Spectrometry in Clinical Chemistry. <i>Clinical Chemistry</i> , 2016, 62, 134-143.	3.2	65
30	Quantitative variation of secondary metabolites in the sea hare <i>Aplysia parvula</i> and its host plant, <i>Delisea pulchra</i> . <i>Marine Ecology - Progress Series</i> , 1996, 130, 135-146.	1.9	65
31	Identification of Novel Diagnostic Serum Biomarkers for Chagas' Disease in Asymptomatic Subjects by Mass Spectrometric Profiling. <i>Journal of Clinical Microbiology</i> , 2010, 48, 1139-1149.	3.9	60
32	Mass spectrometry and 3-nitrotyrosine: Strategies, controversies, and our current perspective. <i>Mass Spectrometry Reviews</i> , 2014, 33, 237-276.	5.4	59
33	Proteomics as a Tool for Discovery: Proteins Implicated in Alzheimer's Disease are Highly Expressed in Normal Pancreatic Islets. <i>Journal of Proteome Research</i> , 2003, 2, 199-205.	3.7	58
34	Analysis of docetaxel pharmacokinetics in humans with the inclusion of later sampling time-points afforded by the use of a sensitive tandem LCMS assay. <i>Cancer Chemotherapy and Pharmacology</i> , 2003, 52, 159-166.	2.3	57
35	Characterization of their <i>in vivo</i> forms of lacrimal-specific proline-rich proteins in human tear fluid. <i>Proteomics</i> , 2004, 4, 3953-3959.	2.2	57
36	Proteomics of semen and its constituents. <i>Proteomics - Clinical Applications</i> , 2007, 1, 861-875.	1.6	56

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37	Salsolinol and dopamine in rat medial basal hypothalamus after chronic ethanol exposure. <i>Life Sciences</i> , 1985, 36, 309-314.	4.3	50
38	Discovery and Validation of Protein Abundance Differences between Follicular Thyroid Neoplasms. <i>Cancer Research</i> , 2008, 68, 1572-1580.	0.9	49
39	Regional extraction of circulating norepinephrine, DOPA, and dihydroxyphenylglycol in humans. <i>Journal of the Autonomic Nervous System</i> , 1991, 34, 17-35.	1.9	46
40	Fluorometric and Mass Spectrometric Analysis of Nonenzymatic Glycosylated Albumin. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 83-89.	2.1	46
41	Contribution of Ara h 2 to peanut-specific, immunoglobulin E-mediated, cell activation. <i>Clinical and Experimental Allergy</i> , 2007, 37, 752-763.	2.9	46
42	Peroxynitrite-Mediated Nitration of Peptides: Characterization of the Products by Electrospray and Combined Gas Chromatography-Mass Spectrometry. <i>Archives of Biochemistry and Biophysics</i> , 1997, 344, 253-259.	3.0	45
43	Proteomics as a Tool for Clinically Relevant Biomarker Discovery and Validation. <i>Experimental Biology and Medicine</i> , 2005, 230, 808-817.	2.4	45
44	Amino Acid Analysis of Peptides and Proteins on the Femtomole Scale by Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 890-896.	6.5	43
45	Comparison of high-performance liquid chromatography with electrochemical detection and gas chromatography-mass fragmentography for the assay of salsolinol, dopamine and dopamine metabolites in food and beverage samples. <i>Biomedical Applications</i> , 1984, 336, 199-209.	1.7	42
46	Simultaneous Quantification of Human Cardiac β - and γ -Myosin Heavy Chain Proteins by MALDI-TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 1683-1689.	6.5	41
47	Nicotine and Cotinine Adducts of a Melanin Intermediate Demonstrated by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2001, 14, 275-279.	3.3	38
48	Good mass spectrometry and its place in good science. <i>Journal of Mass Spectrometry</i> , 2012, 47, 795-809.	1.6	36
49	How Is Whole Body Protein Turnover Perturbed in Growth Hormone-Deficient Adults?1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 4344-4349.	3.6	35
50	Mature adipocyte proteome reveals differentially altered protein abundances between lean, overweight and morbidly obese human subjects. <i>Molecular and Cellular Endocrinology</i> , 2015, 401, 142-154.	3.2	34
51	2-Amino-3-(methylamino)propanoic acid (BMAA) bioavailability in the primate. <i>Neurobiology of Aging</i> , 1992, 13, 333-337.	3.1	33
52	Biomarkers in rheumatology, now and in the future. <i>Rheumatology</i> , 2012, 51, 423-433.	1.9	33
53	Assessment of post-mortem-induced changes to the mouse brain proteome. <i>Journal of Neurochemistry</i> , 2008, 105, 725-737.	3.9	32
54	Purification and Structural Characterization of Siderophore (Corynebactin) from <i>Corynebacterium diphtheriae</i> . <i>PLoS ONE</i> , 2012, 7, e34591.	2.5	32

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55	Mass Spectrometric Techniques Applied to the Analysis of Human Tears: A Focus on the Peptide and Protein Constituents. <i>Advances in Experimental Medicine and Biology</i> , 2002, 506, 601-605.	1.6	32
56	Proteomic analysis of a neoplastic mouse lung epithelial cell line whose tumorigenicity has been abrogated by transfection with the gap junction structural gene for connexin 43, Gja1. <i>Carcinogenesis</i> , 2003, 24, 651-657.	2.8	31
57	Circulating Cytokines and Growth Factors in Pediatric Pulmonary Hypertension. <i>Mediators of Inflammation</i> , 2012, 2012, 1-7.	3.0	31
58	Is protein overlap in two-dimensional gels a serious practical problem?. <i>Proteomics</i> , 2006, 6, 1374-1375.	2.2	29
59	Dopamine and salsolinol levels in rat hypothalamus and striatum after schedule-induced self-injection (SIS) of ethanol and acetaldehyde. <i>Brain Research</i> , 1985, 358, 122-128.	2.2	28
60	Brain Uptake, Pharmacokinetics, and Tissue Distribution in the Rat of Neurotoxic N-Butylbenzenesulfonamide. <i>Toxicological Sciences</i> , 2007, 97, 253-264.	3.1	27
61	Histological changes during maturation in male and female cones of the cycad <i>Zamia furfuracea</i> and their significance in relation to pollination biology. <i>Botanical Journal of the Linnean Society</i> , 1993, 111, 241-252.	1.6	26
62	Conserved Motifs as the Basis for Recognition of Homologous Proteins Across Species Boundaries Using Peptide-mass Fingerprinting. , 1997, 32, 370-378.		26
63	Mass Spectrometric Identification and Quantification of Hemorphins Extracted from Human Adrenal and Pheochromocytoma Tissue. <i>Journal of Neurochemistry</i> , 1997, 68, 1712-1719.	3.9	26
64	Gas chromatographic/mass spectrometric methodology for simultaneous assay of salsolinol, dopamine, norepinephrine, dihydroxyphenylacetic acid and dihydroxyphenylethanol. <i>Biological Mass Spectrometry</i> , 1985, 12, 106-114.	0.5	25
65	The stereoselective disposition of the enantiomers of ibuprofen in blood, blister and synovial fluid.. <i>British Journal of Clinical Pharmacology</i> , 1994, 38, 221-227.	2.4	24
66	A simple and inexpensive approach to interfacing high-performance liquid chromatography and matrix-assisted laser desorption/ionization-time of flight-mass spectrometry. <i>Proteomics</i> , 2004, 4, 3121-3127.	2.2	24
67	Estrogen Regulation of the Rat Anterior Pituitary Gland Proteome. <i>Experimental Biology and Medicine</i> , 2005, 230, 800-807.	2.4	24
68	Dopamine Infusion Studies in Patients with Pathological Hyperprolactinemia: Evidence of Normal Prolactin Suppressibility but Abnormal Dopamine Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1984, 58, 128-133.	3.6	22
69	Oxidative damage to proteins in yeast cells exposed to adaptive levels of H ₂ O ₂ . <i>Redox Report</i> , 2003, 8, 371-377.	4.5	22
70	Quantitative analysis of low-molecular-weight polar compounds by continuous flow liquid secondary ion tandem mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 1013-1016.	6.5	21
71	Quantification of the neurotoxin 2-amino-3-(methylamino)-propanoic acid (BMAA) in cycadales. <i>Phytochemistry</i> , 1992, 31, 3429-3432.	2.9	21
72	Trace Quantification of the Oxidative Damage Products, meta- and ortho-Tyrosine, in Biological Samples by Gas Chromatography-Electron Capture Negative Ionization Mass Spectrometry. <i>Analytical Biochemistry</i> , 1997, 244, 270-276.	2.4	21

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73	Through the eye of an electrospray needle: mass spectrometric identification of the major peptides and proteins in the milk of the one-humped camel (<i>Camelus dromedarius</i>). <i>Journal of Mass Spectrometry</i> , 2013, 48, 779-794.	1.6	21
74	Analysis and Quantitation of Glycated Hemoglobin by Matrix Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 532-541.	2.8	21
75	?-Methylamino-L-Alanine (BMAA) and Amyotrophic Lateral Sclerosis?Parkinsonism Dementia of the Western Pacific. <i>Annals of the New York Academy of Sciences</i> , 1992, 648, 161-168.	3.8	20
76	Trifluoroacetic Anhydride-Catalyzed Nitration of Toluene as an Approach to the Specific Analysis of Nitrate by Gas Chromatography-Mass Spectrometry. <i>Nitric Oxide - Biology and Chemistry</i> , 1999, 3, 67-74.	2.7	18
77	Activation of Erythropoietin Receptor through a Novel Extracellular Binding Site. <i>Endocrinology</i> , 2002, 143, 2293-2302.	2.8	18
78	A proteomic analysis of excreted and circulating proteins from obese patients following two different weight-loss strategies. <i>Experimental Biology and Medicine</i> , 2014, 239, 568-580.	2.4	18
79	Separation of deuteriated isotopomers of dopamine by ion-pair reverse phase high-performance liquid chromatography. <i>Analytical Chemistry</i> , 1988, 60, 2131-2134.	6.5	16
80	Analysis of the Neurotoxic Plasticizer n-Butylbenzenesulfonamide by Gas Chromatography Combined with Accurate Mass Selected Ion Monitoring. <i>Journal of Analytical Toxicology</i> , 1994, 18, 361-368.	2.8	16
81	The ongoing evolution of laser desorption/ionization mass spectrometry: Some observations on current trends and future directions. <i>Journal of Mass Spectrometry</i> , 2018, 53, 525-540.	1.6	15
82	Lipopolysaccharide Stimulation of the Human Neutrophil. <i>Chest</i> , 2002, 121, 75S-76S.	0.8	14
83	Proteomic analysis of six- and twelve-month hippocampus and cerebellum in a murine Down syndrome model. <i>Neurobiology of Aging</i> , 2018, 63, 96-109.	3.1	14
84	Vitamin D binding protein isoforms as candidate predictors of disease extension in childhood arthritis. <i>Journal of Proteomics</i> , 2012, 75, 5479-5492.	2.4	13
85	A covalent thymine-tyrosine adduct involved in DNA-protein crosslinks: synthesis, characterization, and quantification. <i>Free Radical Biology and Medicine</i> , 1999, 27, 254-261.	2.9	12
86	Discovery and verification of protein differences between Er positive/Her2/neu negative breast tumor tissue and matched adjacent normal breast tissue. <i>Breast Cancer Research and Treatment</i> , 2010, 124, 297-305.	2.5	12
87	Formation of proline thiohydantoin with ammonium thiocyanate: progress towards a viable C-terminal amino-acid-sequencing procedure. <i>Journal of Proteomics</i> , 1992, 25, 163-171.	2.4	10
88	Recovery of peptides and proteins following matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 233-239.	1.5	10
89	Debating the Cause of a Neurological Disorder. <i>Science</i> , 2006, 313, 1737b-1737b.	12.6	9
90	Intellectual property-The Foundation of Innovation: A scientist's guide to intellectual property. <i>Journal of Mass Spectrometry</i> , 2019, 54, 288-300.	1.6	9

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91	Comments on Standards in Proteomics and the Concept of Fitness-for-Purpose. <i>Proteomics</i> , 2006, 6, 45-47.	2.2	7
92	Proteomics in Pediatric Research and Practice. <i>Advances in Pediatrics</i> , 2007, 54, 9-28.	1.4	7
93	MALDI-MS: Emerging roles in pathology and laboratory medicine. <i>Clinical Mass Spectrometry</i> , 2019, 13, 1-4.	1.9	6
94	Applications of Proteomics to Thyroid Neoplasms: Are We There Yet?. <i>Thyroid</i> , 2010, 20, 1051-1052.	4.5	5
95	Omics and its 15 minutes. <i>Experimental Biology and Medicine</i> , 2007, 232, 471-2.	2.4	5
96	Place for Biochemical Markers in Early-Stage Lung Cancer Detection?. <i>Journal of Clinical Oncology</i> , 2009, 27, 2749-2750.	1.6	3
97	Proteomics-Based Disease Biomarkers. <i>International Journal of Proteomics</i> , 2011, 2011, 1-2.	2.0	3
98	Proteomic Analysis of Mouse Lung Neoplasia. <i>Chest</i> , 2002, 121, 28S.	0.8	2
99	Quantitative analysis of proteomics using data mining. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2005, 24, 67-72.	0.8	1
100	Tools for quantitative analysis: The Al Yergey perspective. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4524.	1.6	1
101	Proteomics of Seminal Fluid. , 2007, , 467-493.		1
102	M06-03: Prediction of benefit from EGFR TKIs by proteomic analysis of pretreatment serum. <i>Journal of Thoracic Oncology</i> , 2007, 2, S167-S168.	1.1	0
103	Companion and Complementary Diagnostics by Mass Spectrometry. , 2019, , 187-200.		0
104	Vale Al Yergey. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4535.	1.6	0
105	IDENTIFICATION OF CONTAMINANTS IN MALDI-TOF PROTEOMICS SPECTRA VIA DATA MINING. , 2005, , .		0
106	An Overview of Matrix-Assisted Laser Desorption/Ionization (MALDI) Mass Spectrometry and Some of Its Applications. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2014, , 69-81.	0.5	0