

Catherine E Costello

List of Publications by Year in descending order

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297
papers

22,832
citations

7069

78
h-index

11581

135
g-index

302
all docs

302
docs citations

302
times ranked

22528
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular vimentin is an attachment factor that facilitates SARS-CoV-2 entry into human endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	75
2	GlycoDeNovo2: An Improved MS/MS-Based <i>De Novo</i> Glycan Topology Reconstruction Algorithm. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 436-445.	1.2	2
3	Characterization of Glycoproteoforms of Integrins $\alpha 2$ and $\beta 1$ in Megakaryocytes in the Occurrence of JAK2V617F Mutation-Induced Primary Myelofibrosis. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100213.	2.5	1
4	Dissecting the Mechanism of the Nonheme Iron Endoperoxidase FtmOx1 Using Substrate Analogues. <i>Jacs Au</i> , 2022, 2, 1686-1698.	3.6	11
5	Identification of Novel, Immunogenic HLA-DP Presented <i>Prevotella copri</i> Peptides in Patients With Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2021, 73, 2200-2205.	2.9	21
6	The Clinical Impact of Proteomics in Amyloid Typing. <i>Mayo Clinic Proceedings</i> , 2021, 96, 1122-1127.	1.4	9
7	CD209L/L-SIGN and CD209/DC-SIGN Act as Receptors for SARS-CoV-2. <i>ACS Central Science</i> , 2021, 7, 1156-1165.	5.3	165
8	Abstract 2004: Understanding the role of $\alpha 1,2$ -fucosylation in head and neck cancer. , 2021, , .		0
9	The cell adhesion molecule TMIGD1 binds to moesin and regulates tubulin acetylation and cell migration. <i>Journal of Biomedical Science</i> , 2021, 28, 61.	2.6	9
10	Protein signatures of centenarians and their offspring suggest centenarians age slower than other humans. <i>Aging Cell</i> , 2021, 20, e13290.	3.0	42
11	Regulation of Pkc1 Hyper-Phosphorylation by Genotoxic Stress. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 874.	1.5	4
12	Toward Automatic and Comprehensive Glycan Characterization by Online PGC-LC-EED MS/MS. <i>Analytical Chemistry</i> , 2020, 92, 782-791.	3.2	42
13	Accurate Identification of Isomeric Glycans by Trapped Ion Mobility Spectrometry-Electronic Excitation Dissociation Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 13211-13220.	3.2	39
14	N-glycosylation in <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) midgut membrane-bound glycoproteins. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 246-247, 110464.	0.7	2
15	$\beta 2$ -Catenin/CBP inhibition alters epidermal growth factor receptor fucosylation status in oral squamous cell carcinoma. <i>Molecular Omics</i> , 2020, 16, 195-209.	1.4	14
16	Osteocytes control myeloid cell proliferation and differentiation through Gs α -dependent and α -independent mechanisms. <i>FASEB Journal</i> , 2020, 34, 10191-10211.	0.2	12
17	Variation of Glycosylation Patterns Revealed by PGC-LC and Gated-TIMS-EED Tandem Mass Spectrometry. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
18	The Russian Mass Spectrometry Interest Group at ASMS: Over 20 Years of Science and Water Polo. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2178-2182.	1.2	0

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19	N-Glycosylation regulates ligand-dependent activation and signaling of vascular endothelial growth factor receptor 2 (VEGFR2). <i>Journal of Biological Chemistry</i> , 2019, 294, 13117-13130.	1.6	37
20	Plasma Peptidylarginine Deiminase IV Promotes VWF-Platelet String Formation and Accelerates Thrombosis After Vessel Injury. <i>Circulation Research</i> , 2019, 125, 507-519.	2.0	72
21	Endothelial cell-specific redox gene modulation inhibits angiogenesis but promotes B16F0 tumor growth in mice. <i>FASEB Journal</i> , 2019, 33, 14147-14158.	0.2	9
22	Multi-isotype Glycoproteomic Characterization of Serum Antibody Heavy Chains Reveals Isotype- and Subclass-Specific N-Glycosylation Profiles. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 686-703.	2.5	44
23	Glycosylation in the Tumor Microenvironment: Implications for Tumor Angiogenesis and Metastasis. <i>Cells</i> , 2019, 8, 544.	1.8	64
24	The most abundant cyst wall proteins of <i>Acanthamoeba castellanii</i> are lectins that bind cellulose and localize to distinct structures in developing and mature cyst walls. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007352.	1.3	23
25	Improved mass spectrometry-based activity assay reveals oxidative and metabolic stress as sirtuin-1 regulators. <i>Redox Biology</i> , 2019, 22, 101150.	3.9	13
26	Altered Domain Structure of the Prion Protein Caused by Cu ²⁺ Binding and Functionally Relevant Mutations: Analysis by Cross-Linking, MS/MS, and NMR. <i>Structure</i> , 2019, 27, 907-922.e5.	1.6	26
27	The minimum information required for a glycomics experiment (MIRAGE) project: LC guidelines. <i>Glycobiology</i> , 2019, 29, 349-354.	1.3	30
28	Oligomannose Glycopeptide Conjugates Elicit Antibodies Targeting the Glycan Core Rather than Its Extremities. <i>ACS Central Science</i> , 2019, 5, 237-249.	5.3	33
29	Characterization and Quantification of Highly Sulfated Glycosaminoglycan Isomers by Gated-Trapped Ion Mobility Spectrometry Negative Electron Transfer Dissociation MS/MS. <i>Analytical Chemistry</i> , 2019, 91, 2994-3001.	3.2	53
30	O-Fucosylation of thrombospondin-like repeats is required for processing of microneme protein 2 and for efficient host cell invasion by <i>Toxoplasma gondii</i> tachyzoites. <i>Journal of Biological Chemistry</i> , 2019, 294, 1967-1983.	1.6	27
31	Snapshots of C-S Cleavage in Egt2 Reveals Substrate Specificity and Reaction Mechanism. <i>Cell Chemical Biology</i> , 2018, 25, 519-529.e4.	2.5	29
32	Characterization of Isomeric Glycans by Reversed Phase Liquid Chromatography-Electronic Excitation Dissociation Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1295-1307.	1.2	27
33	Comparison of Collisional and Electron-Based Dissociation Modes for Middle-Down Analysis of Multiply Glycosylated Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1075-1085.	1.2	36
34	De Novo Glycan Sequencing by Electronic Excitation Dissociation and Fixed-Charge Derivatization. <i>Analytical Chemistry</i> , 2018, 90, 3793-3801.	3.2	25
35	Apicomplexan C-Mannosyltransferases Modify Thrombospondin Type I-containing Adhesins of the TRAP Family. <i>Glycobiology</i> , 2018, 28, 333-343.	1.3	28
36	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	3.9	580

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37	MINAR1 is a Notch2-binding protein that inhibits angiogenesis and breast cancer growth. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 195-204.	1.5	14
38	The SystemMHC Atlas project. <i>Nucleic Acids Research</i> , 2018, 46, D1237-D1247.	6.5	119
39	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. <i>Glycobiology</i> , 2017, 27, 280-284.	1.3	69
40	Asparagine-Linked Glycans of <i>Cryptosporidium parvum</i> Contain a Single Long Arm, Are Barely Processed in the Endoplasmic Reticulum (ER) or Golgi, and Show a Strong Bias for Sites with Threonine. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S42-S53.	2.5	21
41	Microfluidic Capillary Electrophoresis–Mass Spectrometry for Analysis of Monosaccharides, Oligosaccharides, and Glycopeptides. <i>Analytical Chemistry</i> , 2017, 89, 6645-6655.	3.2	95
42	Construction of a Database of Collision Cross Section Values for Glycopeptides, Glycans, and Peptides Determined by IM-MS. <i>Analytical Chemistry</i> , 2017, 89, 4452-4460.	3.2	55
43	Site-Specific N-Glycosylation of Endothelial Cell Receptor Tyrosine Kinase VEGFR-2. <i>Journal of Proteome Research</i> , 2017, 16, 677-688.	1.8	39
44	Human Regulatory Protein Ki-1/57 Is a Target of SUMOylation and Affects PML Nuclear Body Formation. <i>Journal of Proteome Research</i> , 2017, 16, 3147-3157.	1.8	9
45	Evidence of the Immune Relevance of <i>Prevotella copri</i> , a Gut Microbe, in Patients With Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 964-975.	2.9	277
46	Oxidative post-translational modifications of an amyloidogenic immunoglobulin light chain protein. <i>International Journal of Mass Spectrometry</i> , 2017, 416, 71-79.	0.7	13
47	Enhancing glycan isomer separations with metal ions and positive and negative polarity ion mobility spectrometry-mass spectrometry analyses. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 467-476.	1.9	78
48	Immunogenic HLA-DR-Presented Self-Peptides Identified Directly from Clinical Samples of Synovial Tissue, Synovial Fluid, or Peripheral Blood in Patients with Rheumatoid Arthritis or Lyme Arthritis. <i>Journal of Proteome Research</i> , 2017, 16, 122-136.	1.8	50
49	<i>Cryptosporidium parvum</i> vaccine candidates are incompletely modified with O-linked-N-acetylgalactosamine or contain N-terminal N-myristate and S-palmitate. <i>PLoS ONE</i> , 2017, 12, e0182395.	1.1	18
50	Two rheumatoid arthritis-specific autoantigens correlate microbial immunity with autoimmune responses in joints. <i>Journal of Clinical Investigation</i> , 2017, 127, 2946-2956.	3.9	152
51	Ribosome-associated pentatricopeptide repeat proteins function as translational activators in mitochondria of trypanosomes. <i>Molecular Microbiology</i> , 2016, 99, 1043-1058.	1.2	28
52	O-Linked N-Acetylglucosamine (O-GlcNAc) Transferase and O-GlcNAcase Interact with Mi2 ² Protein at the Al^3 -Globin Promoter. <i>Journal of Biological Chemistry</i> , 2016, 291, 15628-15640.	1.6	21
53	Comparative Proteomics Reveals Dysregulated Mitochondrial O-GlcNAcylation in Diabetic Hearts. <i>Journal of Proteome Research</i> , 2016, 15, 2254-2264.	1.8	68
54	The biochemical origins of the surface-enhanced Raman spectra of bacteria: a metabolomics profiling by SERS. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4631-4647.	1.9	194

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55	Epithelial Mesenchymal Transition Induces Aberrant Glycosylation through Hexosamine Biosynthetic Pathway Activation. <i>Journal of Biological Chemistry</i> , 2016, 291, 12917-12929.	1.6	93
56	α -fucosylated glycoproteins form assemblies in close proximity to the nuclear pore complexes of <i>Toxoplasma gondii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11567-11572.	3.3	39
57	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016, 26, 907-910.	1.3	62
58	IGPR-1 Is Required for Endothelial Cell Cell Adhesion and Barrier Function. <i>Journal of Molecular Biology</i> , 2016, 428, 5019-5033.	2.0	23
59	Reconstituted B cell receptor signaling reveals carbohydrate-dependent mode of activation. <i>Scientific Reports</i> , 2016, 6, 36298.	1.6	29
60	Gated trapped ion mobility spectrometry coupled to fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal for Ion Mobility Spectrometry</i> , 2016, 19, 77-85.	1.4	32
61	Glycomics and glycoproteomics of membrane proteins and cell surface receptors: Present trends and future opportunities. <i>Electrophoresis</i> , 2016, 37, 1407-1419.	1.3	55
62	Antisense Transcripts Delimit Exonucleolytic Activity of the Mitochondrial Ω Processome to Generate Guide RNAs. <i>Molecular Cell</i> , 2016, 61, 364-378.	4.5	35
63	Separation and Identification of Isomeric Glycans by Selected Accumulation-Trapped Ion Mobility Spectrometry-Electron Activated Dissociation Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 3440-3443.	3.2	105
64	Matrix metalloproteinase-10 is a target of T and B cell responses that correlate with synovial pathology in patients with antibiotic-refractory Lyme arthritis. <i>Journal of Autoimmunity</i> , 2016, 69, 24-37.	3.0	44
65	S- to N-Palmitoyl Transfer During Proteomic Sample Preparation. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 677-685.	1.2	22
66	Mechanistic Study on Electronic Excitation Dissociation of the Cellobiose- Na^+ Complex. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 319-328.	1.2	24
67	RuvbL1 and RuvbL2 enhance aggresome formation and disaggregate amyloid fibrils. <i>EMBO Journal</i> , 2015, 34, 2363-2382.	3.5	47
68	Emerging roles of post-translational modifications in signal transduction and angiogenesis. <i>Proteomics</i> , 2015, 15, 300-309.	1.3	44
69	Enhancing bottom-up and top-down proteomic measurements with ion mobility separations. <i>Proteomics</i> , 2015, 15, 2766-2776.	1.3	54
70	In-source decay characterization of isoaspartate and β -peptides. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 101-109.	0.7	11
71	MALDI-HSD Mass Spectrometry Analysis of Hemoglobin Variants: a Top-Down Approach to the Characterization of Hemoglobinopathies. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1299-1310.	1.2	21
72	Hypoxia-induced expression of phosducin-like 3 regulates expression of VEGFR-2 and promotes angiogenesis. <i>Angiogenesis</i> , 2015, 18, 449-462.	3.7	42

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73	Protein expression by human pulmonary artery smooth muscle cells containing a BMPR2 mutation and the action of ET-1 as determined by proteomic mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 347-359.	0.7	19
74	Transformative Impact of Proteomics on Cardiovascular Health and Disease. <i>Circulation</i> , 2015, 132, 852-872.	1.6	140
75	Annexin A2 is a target of autoimmune T and B cell responses associated with synovial fibroblast proliferation in patients with antibiotic-refractory Lyme arthritis. <i>Clinical Immunology</i> , 2015, 160, 336-341.	1.4	49
76	A Highly Expressed Human Protein, Apolipoprotein B-100, Serves as an Autoantigen in a Subgroup of Patients With Lyme Disease. <i>Journal of Infectious Diseases</i> , 2015, 212, 1841-1850.	1.9	50
77	Overexpression of Catalase Diminishes Oxidative Cysteine Modifications of Cardiac Proteins. <i>PLoS ONE</i> , 2015, 10, e0144025.	1.1	31
78	Proteomic Mapping of Mitotic O-GlcNAc Sites. <i>FASEB Journal</i> , 2015, 29, 570.20.	0.2	0
79	Western Diet Alters Phosphorylation and O-GlcNAcylation of Proteins Involved in Mouse Heart Metabolic Disease. <i>FASEB Journal</i> , 2015, 29, 570.21.	0.2	1
80	Direct analysis of sialylated or sulfated glycosphingolipids and other polar and neutral lipids using TLC-MS interfaces. <i>Journal of Lipid Research</i> , 2014, 55, 773-781.	2.0	33
81	MIRAGE: The minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014, 24, 402-406.	1.3	116
82	Top-down tandem mass spectrometry on <sc>RN</sc>ase <sc>A</sc> and <sc>B</sc> using a <sc>Q</sc>/<sc>h</sc>/<sc>FT</sc>-<sc>ICR</sc> hybrid mass spectrometer. <i>Proteomics</i> , 2014, 14, 1174-1184.	1.3	31
83	Site-specific qualitative and quantitative analysis of the N- and O-glycoforms in recombinant human erythropoietin. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6265-6274.	1.9	34
84	Mechanistic Study on Electron Capture Dissociation of the Oligosaccharide-Mg ²⁺ Complex. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1451-1460.	1.2	26
85	Alterations to O-GlcNAc cycling disrupt mitotic phosphorylation (555.16). <i>FASEB Journal</i> , 2014, 28, 555.16.	0.2	0
86	Mass spectrometry of glycans. <i>Biochemistry (Moscow)</i> , 2013, 78, 710-720.	0.7	69
87	Lysine Methylation Promotes VEGFR-2 Activation and Angiogenesis. <i>Science Signaling</i> , 2013, 6, ra104.	1.6	39
88	Direct Detection of <i>S</i>-Palmitoylation by Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 11952-11959.	3.2	64
89	Ultraviolet laser-induced cross-linking in peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1660-1668.	0.7	33
90	A novel human autoantigen, endothelial cell growth factor, is a target of T and B cell responses in patients with Lyme disease. <i>Arthritis and Rheumatism</i> , 2013, 65, 186-196.	6.7	76

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91	Epithelial Wounds Induce Differential Phosphorylation Changes in Response to Purinergic and EGF Receptor Activation. <i>American Journal of Pathology</i> , 2013, 183, 1841-1852.	1.9	18
92	The aryl hydrocarbon receptor directs hematopoietic progenitor cell expansion and differentiation. <i>Blood</i> , 2013, 122, 376-385.	0.6	119
93	De Novo Sequencing of Heparan Sulfate Oligosaccharides by Electron-Activated Dissociation. <i>Analytical Chemistry</i> , 2013, 85, 11979-11986.	3.2	43
94	Detailed Glycan Structural Characterization by Electronic Excitation Dissociation. <i>Analytical Chemistry</i> , 2013, 85, 10017-10021.	3.2	68
95	Evidence for a Structural Role for Acid-Fast Lipids in Oocyst Walls of <i>Cryptosporidium</i> , <i>Toxoplasma</i> , and <i>Eimeria</i> . <i>MBio</i> , 2013, 4, e00387-13.	1.8	51
96	The binding sites of monoclonal antibodies to the nonreducing end of <i>Francisella tularensis</i> O-antigen accommodate mainly the terminal saccharide. <i>Immunology</i> , 2013, 140, n/a-n/a.	2.0	12
97	STRAP PTM: Software Tool for Rapid Annotation and Differential Comparison of Protein Post-translational Modifications. <i>Current Protocols in Bioinformatics</i> , 2013, 44, 13.22.1-36.	25.8	7
98	Metabolic Disorder in a Mouse Model on an American Diet: Proteomic Analysis of Cardiovascular Disease. <i>FASEB Journal</i> , 2013, 27, 794.17.	0.2	0
99	Proteomic Study of Reversible Cysteine Oxidation in Catalase Overexpressing Mice on a Western Diet. <i>FASEB Journal</i> , 2013, 27, 810.3.	0.2	0
100	β -1,3-Glucan, Which Can Be Targeted by Drugs, Forms a Trabecular Scaffold in the Oocyst Walls of <i>Toxoplasma</i> and <i>Eimeria</i> . <i>MBio</i> , 2012, 3, .	1.8	36
101	Energy-Dependent Electron Activated Dissociation of Metal-Adducted Permethylated Oligosaccharides. <i>Analytical Chemistry</i> , 2012, 84, 7487-7494.	3.2	54
102	Top-Down Study of β 2-Microglobulin Deamidation. <i>Analytical Chemistry</i> , 2012, 84, 6150-6157.	3.2	22
103	Lipid Sorting by Ceramide Structure from Plasma Membrane to ER for the Cholera Toxin Receptor Ganglioside GM1. <i>Developmental Cell</i> , 2012, 23, 573-586.	3.1	119
104	Protective B-cell epitopes of <i>Francisella tularensis</i> O-polysaccharide in a mouse model of respiratory tularaemia. <i>Immunology</i> , 2012, 136, 352-360.	2.0	16
105	A Typical Preparation of <i>Francisella tularensis</i> O-Antigen Yields a Mixture of Three Types of Saccharides. <i>Biochemistry</i> , 2011, 50, 10941-10950.	1.2	21
106	The Human Proteome Project: Current State and Future Direction. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009993.	2.5	294
107	Electron Transfer Dissociation of Milk Oligosaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 997-1013.	1.2	90
108	Top-down analysis of small plasma proteins using an LTQ-Orbitrap. Potential for mass spectrometry-based clinical assays for transthyretin and hemoglobin. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 130-142.	0.7	41

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109	Peptides Presented by HLA-DR Molecules in Synovia of Patients with Rheumatoid Arthritis or Antibiotic-Refractory Lyme Arthritis. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.002477.	2.5	38
110	Chymotrypsin C Is a Co-activator of Human Pancreatic Procarboxypeptidases A1 and A2. <i>Journal of Biological Chemistry</i> , 2011, 286, 1819-1827.	1.6	31
111	Charge remote fragmentation in electron capture and electron transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 646-656.	1.2	38
112	Identification of phenylbutyrate-generated metabolites in Huntington disease patients using parallel liquid chromatography/electrochemical array/mass spectrometry and off-line tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2010, 399, 152-161.	1.1	31
113	Comparison of Methods for Profiling O-Glycosylation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 719-727.	2.5	136
114	Role of Glycosaminoglycan Sulfation in the Formation of Immunoglobulin Light Chain Amyloid Oligomers and Fibrils. <i>Journal of Biological Chemistry</i> , 2010, 285, 37672-37682.	1.6	49
115	The Antiretroviral Lectin Cyanovirin-N Targets Well-Known and Novel Targets on the Surface of <i>Entamoeba histolytica</i> Trophozoites. <i>Eukaryotic Cell</i> , 2010, 9, 1661-1668.	3.4	7
116	The <i>Caenorhabditis elegans</i> bus-2 Mutant Reveals a New Class of O-Glycans Affecting Bacterial Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 17662-17672.	1.6	30
117	<i>Giardia</i> Cyst Wall Protein 1 Is a Lectin That Binds to Curled Fibrils of the GalNAc Homopolymer. <i>PLoS Pathogens</i> , 2010, 6, e1001059.	2.1	43
118	Redox Regulation of Sirtuin-1 by <i>S</i> -Glutathiolation. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1023-1032.	2.5	88
119	Improved Hydrophilic Interaction Chromatography LC/MS of Heparinoids Using a Chip with Postcolumn Makeup Flow. <i>Analytical Chemistry</i> , 2010, 82, 516-522.	3.2	55
120	Immune versus thrombotic stimulation of platelets differentially regulates signalling pathways, intracellular protein-protein interactions, and α -granule release. <i>Thrombosis and Haemostasis</i> , 2009, 102, 97-110.	1.8	104
121	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. <i>Journal of Experimental Medicine</i> , 2009, 206, 1409-1422.	4.2	47
122	Synthesis of Dideoxymycobactin Antigens Presented by CD1a Reveals T Cell Fine Specificity for Natural Lipopeptide Structures. <i>Journal of Biological Chemistry</i> , 2009, 284, 25087-25096.	1.6	22
123	Abnormal proteins can form aggresome in yeast: aggresome-targeting signals and components of the machinery. <i>FASEB Journal</i> , 2009, 23, 451-463.	0.2	150
124	Mechanistic Insights Into Nitrite-Induced Cardioprotection Using an Integrated Metabolomic/Proteomic Approach. <i>Circulation Research</i> , 2009, 104, 796-804.	2.0	54
125	Synthesis of a cyclic fibrin-like peptide and its analysis by fast atom bombardment mass spectrometry. <i>International Journal of Peptide and Protein Research</i> , 2009, 22, 374-380.	0.1	8
126	AND-34/BCAR3 regulates adhesion-dependent p130Cas serine phosphorylation and breast cancer cell growth pattern. <i>Cellular Signalling</i> , 2009, 21, 1423-1435.	1.7	21

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127	Strong IgG antibody responses to <i>Borrelia burgdorferi</i> glycolipids in patients with Lyme arthritis, a late manifestation of the infection. <i>Clinical Immunology</i> , 2009, 132, 93-102.	1.4	24
128	Structural details and composition of <i>Trichomonas vaginalis</i> lipophosphoglycan in relevance to the epithelial immune function. <i>Glycoconjugate Journal</i> , 2009, 26, 3-17.	1.4	60
129	A chip-based amide-HILIC LC/MS platform for glycosaminoglycan glycomics profiling. <i>Proteomics</i> , 2009, 9, 686-695.	1.3	92
130	Highly efficient and selective enrichment of peptide subsets combining fluoruous chemistry with reversed-phase chromatography. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 4019-4030.	0.7	18
131	O-glycosylation of protein subpopulations in alcohol-extracted rice proteins. <i>Journal of Plant Physiology</i> , 2009, 166, 219-232.	1.6	28
132	Cardiac amyloidosis in African Americans: Comparison of clinical and laboratory features of transthyretin V122I amyloidosis and immunoglobulin light chain amyloidosis. <i>American Heart Journal</i> , 2009, 158, 607-614.	1.2	129
133	Software Tool for Researching Annotations of Proteins: Open-Source Protein Annotation Software with Data Visualization. <i>Analytical Chemistry</i> , 2009, 81, 9819-9823.	3.2	207
134	Chemical-modification rescue assessed by mass spectrometry demonstrates that β -thia-lysine yields the same activity as lysine in aldolase. <i>Protein Science</i> , 2009, 11, 1591-1599.	3.1	30
135	Development of a Malignancy-Associated Proteomic Signature for Diffuse Large B-Cell Lymphoma. <i>American Journal of Pathology</i> , 2009, 175, 25-35.	1.9	14
136	Collisionally activated dissociation and electron capture dissociation provide complementary structural information for branched permethylated oligosaccharides. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 138-150.	1.2	80
137	Comparative glycomics of connective tissue glycosaminoglycans. <i>Proteomics</i> , 2008, 8, 1384-1397.	1.3	88
138	Mass spectrometric detection of multiple extended series of neutral highly fucosylated N-acetyllactosamine oligosaccharides in human milk. <i>International Journal of Mass Spectrometry</i> , 2008, 278, 129-136.	0.7	15
139	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008, 26, 164-167.	9.4	155
140	A Novel Mutant Cardiac Troponin C Disrupts Molecular Motions Critical for Calcium Binding Affinity and Cardiomyocyte Contractility. <i>Biophysical Journal</i> , 2008, 94, 3577-3589.	0.2	62
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