

Roman A Zubarev

List of Publications by Year in descending order

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293
papers

18,407
citations

16437

64
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123
g-index

321
all docs

321
docs citations

321
times ranked

14772
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Capture Dissociation of Multiply Charged Protein Cations. A Nonergodic Process. <i>Journal of the American Chemical Society</i> , 1998, 120, 3265-3266.	6.6	1,766
2	Electron Capture Dissociation for Structural Characterization of Multiply Charged Protein Cations. <i>Analytical Chemistry</i> , 2000, 72, 563-573.	3.2	903
3	Electron Capture Dissociation of Gaseous Multiply-Charged Proteins Is Favored at Disulfide Bonds and Other Sites of High Hydrogen Atom Affinity. <i>Journal of the American Chemical Society</i> , 1999, 121, 2857-2862.	6.6	539
4	Automated reduction and interpretation of. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 320-332.	1.2	500
5	Orbitrap Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 5288-5296.	3.2	454
6	Reactions of polypeptide ions with electrons in the gas phase. <i>Mass Spectrometry Reviews</i> , 2003, 22, 57-77.	2.8	407
7	Localization of O-Glycosylation Sites in Peptides by Electron Capture Dissociation in a Fourier Transform Mass Spectrometer. <i>Analytical Chemistry</i> , 1999, 71, 4431-4436.	3.2	379
8	Localization of Labile Posttranslational Modifications by Electron Capture Dissociation: The Case of β -Carboxyglutamic Acid. <i>Analytical Chemistry</i> , 1999, 71, 4250-4253.	3.2	362
9	Electron capture dissociation of singly and multiply phosphorylated peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1793-1800.	0.7	341
10	Electron-capture dissociation tandem mass spectrometry. <i>Current Opinion in Biotechnology</i> , 2004, 15, 12-16.	3.3	328
11	Low-mass ions observed in plasma desorption mass spectrometry of high explosives. , 2000, 35, 337-346.		280
12	Automated de novo sequencing of proteins by tandem high-resolution mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10313-10317.	3.3	243
13	Electron detachment dissociation of peptide di-anions: an electron "hole" recombination phenomenon. <i>Chemical Physics Letters</i> , 2001, 342, 299-302.	1.2	228
14	Towards An Understanding of the Mechanism of Electron-Capture Dissociation: A Historical Perspective and Modern Ideas. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 337-349.	0.5	227
15	Electron capture dissociation of gaseous multiply charged ions by Fourier-transform ion cyclotron resonance. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 245-249.	1.2	226
16	Release of Active Peptidyl Arginine Deiminases by Neutrophils Can Explain Production of Extracellular Citrullinated Autoantigens in Rheumatoid Arthritis Synovial Fluid. <i>Arthritis and Rheumatology</i> , 2015, 67, 3135-3145.	2.9	193
17	De Novo Peptide Sequencing and Identification with Precision Mass Spectrometry. <i>Journal of Proteome Research</i> , 2007, 6, 114-123.	1.8	185
18	Dissociative capture of hot (3×10^{-13} eV) electrons by polypeptide polycations: an efficient process accompanied by secondary fragmentation. <i>Chemical Physics Letters</i> , 2002, 356, 201-206.	1.2	184

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19	ModifiComb, a New Proteomic Tool for Mapping Substoichiometric Post-translational Modifications, Finding Novel Types of Modifications, and Fingerprinting Complex Protein Mixtures. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 935-948.	2.5	178
20	BIOCHEMISTRY:Biomolecule Mass Spectrometry. <i>Science</i> , 1999, 284, 1289-1290.	6.0	177
21	Heightened immune response to autocitrullinated <i>Porphyromonas gingivalis</i> peptidylarginine deiminase: a potential mechanism for breaching immunologic tolerance in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 263-269.	0.5	171
22	Functional Conservation of Subfamilies of Putative UDP-N-acetylgalactosamine:Polypeptide N-Acetylgalactosaminyltransferases in <i>Drosophila</i> , <i>Caenorhabditis elegans</i> , and Mammals. <i>Journal of Biological Chemistry</i> , 2002, 277, 22623-22638.	1.6	168
23	Electron Capture Dissociation Proceeds with a Low Degree of Intramolecular Migration of Peptide Amide Hydrogens. <i>Journal of the American Chemical Society</i> , 2008, 130, 1341-1349.	6.6	167
24	The challenge of the proteome dynamic range and its implications for in-depth proteomics. <i>Proteomics</i> , 2013, 13, 723-726.	1.3	160
25	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. <i>Science</i> , 2018, 362, 834-839.	6.0	156
26	Mass spectrometric analysis of asparagine deamidation and aspartate isomerization in polypeptides. <i>Electrophoresis</i> , 2010, 31, 1764-1772.	1.3	150
27	Proteome Integral Solubility Alteration: A High-Throughput Proteomics Assay for Target Deconvolution. <i>Journal of Proteome Research</i> , 2019, 18, 4027-4037.	1.8	148
28	Proteomics-Grade de Novo Sequencing Approach. <i>Journal of Proteome Research</i> , 2005, 4, 2348-2354.	1.8	147
29	On the Proper Use of Mass Accuracy in Proteomics. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 377-381.	2.5	144
30	Myeloid-derived suppressor cells express the death receptor Fas and apoptose in response to T cell-expressed FasL. <i>Blood</i> , 2011, 117, 5381-5390.	0.6	140
31	Electron capture/transfer versus collisionally activated/induced dissociations: Solo or duet?. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 753-761.	1.2	136
32	Improving Protein Identification Using Complementary Fragmentation Techniques in Fourier Transform Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 835-845.	2.5	128
33	Complete Characterization of Posttranslational Modification Sites in the Bovine Milk Protein PP3 by Tandem Mass Spectrometry with Electron Capture Dissociation as the Last Stage. <i>Analytical Chemistry</i> , 2003, 75, 2355-2361.	3.2	126
34	Distinguishing of Ile/Leu Amino Acid Residues in the PP3 Protein by (Hot) Electron Capture Dissociation in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 1267-1274.	3.2	126
35	Fragmentation of Peptides in MALDI In-Source Decay Mediated by Hydrogen Radicals. <i>Analytical Chemistry</i> , 2005, 77, 172-177.	3.2	125
36	Rapid and Deep Human Proteome Analysis by Single-dimension Shotgun Proteomics. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3330-3338.	2.5	123

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37	Hydrogen rearrangement to and from radical z fragments in electron capture dissociation of peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 113-120.	1.2	120
38	The SystemMHC Atlas project. <i>Nucleic Acids Research</i> , 2018, 46, D1237-D1247.	6.5	119
39	Accuracy Requirements for Peptide Characterization by Monoisotopic Molecular Mass Measurements. <i>Analytical Chemistry</i> , 1996, 68, 4060-4063.	3.2	117
40	Optimizing heterologous protein production in the periplasm of <i>E. coli</i> by regulating gene expression levels. <i>Microbial Cell Factories</i> , 2013, 12, 24.	1.9	114
41	Repurposing of auranofin: Thioredoxin reductase remains a primary target of the drug. <i>Biochimie</i> , 2019, 162, 46-54.	1.3	113
42	Improved low-energy electron injection systems for high rate electron capture dissociation in Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1849-1854.	0.7	112
43	C??C Backbone Fragmentation Dominates in Electron Detachment Dissociation of Gas-Phase Polypeptide Polyanions. <i>Chemistry - A European Journal</i> , 2005, 11, 1803-1812.	1.7	112
44	Shared immunological targets in the lungs and joints of patients with rheumatoid arthritis: identification and validation. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1772-1777.	0.5	112
45	Validation and development of MTH1 inhibitors for treatment of cancer. <i>Annals of Oncology</i> , 2016, 27, 2275-2283.	0.6	111
46	Molecular profiling of prostate cancer derived exosomes may reveal a predictive signature for response to docetaxel. <i>Oncotarget</i> , 2015, 6, 21740-21754.	0.8	109
47	Advantages of External Accumulation for Electron Capture Dissociation in Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2998-3005.	3.2	106
48	Facile Disulfide Bond Cleavage in Gaseous Peptide and Protein Cations by Ultraviolet Photodissociation at 157 nm. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6399-6403.	7.2	99
49	Prodynorphin Mutations Cause the Neurodegenerative Disorder Spinocerebellar Ataxia Type 23. <i>American Journal of Human Genetics</i> , 2010, 87, 593-603.	2.6	99
50	The RBCC GeneRFP2(Leu5) Encodes a Novel Transmembrane E3 Ubiquitin Ligase Involved in ERAD. <i>Molecular Biology of the Cell</i> , 2007, 18, 1670-1682.	0.9	97
51	Electron capture dissociation distinguishes a single D-amino acid in a protein and probes the tertiary structure. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1087-1098.	1.2	93
52	Extent of Modifications in Human Proteome Samples and Their Effect on Dynamic Range of Analysis in Shotgun Proteomics. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 2384-2391.	2.5	93
53	New Data Base-independent, Sequence Tag-based Scoring of Peptide MS/MS Data Validates Mowse Scores, Recovers Below Threshold Data, Singles Out Modified Peptides, and Assesses the Quality of MS/MS Techniques. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1180-1188.	2.5	88
54	Electron capture dissociation of multiply charged peptide cations. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 787-793.	0.7	85

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55	Proteomic analysis of urinary biomarker candidates for nonmuscle invasive bladder cancer. <i>Proteomics</i> , 2012, 12, 135-144.	1.3	83
56	Electron Ionization Dissociation of Singly and Multiply Charged Peptides. <i>Journal of the American Chemical Society</i> , 2009, 131, 9977-9985.	6.6	81
57	In Silico Instrumental Response Correction Improves Precision of Label-free Proteomics and Accuracy of Proteomics-based Predictive Models. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2324-2331.	2.5	81
58	Applications of Electron ⁺ Ion Dissociation Reactions for Analysis of Polycationic Chitooligosaccharides in Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 5994-6001.	3.2	80
59	Electron capture dissociation of polypeptides in a three-dimensional quadrupole ion trap: Implementation and first results. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 22-27.	1.2	79
60	Complementary Sequence Preferences of Electron-Capture Dissociation and Vibrational Excitation in Fragmentation of Polypeptide Polycations. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5301-5303.	7.2	79
61	Electron capture versus energetic dissociation of protein ions. <i>International Journal of Mass Spectrometry</i> , 1999, 182-183, 1-5.	0.7	75
62	Liquid Chromatography at Critical Conditions: A Comprehensive Approach to Sequence-Dependent Retention Time Prediction. <i>Analytical Chemistry</i> , 2006, 78, 7770-7777.	3.2	73
63	Urinary Prognostic Biomarkers and Classification of IgA Nephropathy by High Resolution Mass Spectrometry Coupled with Liquid Chromatography. <i>PLoS ONE</i> , 2013, 8, e80830.	1.1	73
64	Functional and Structural Characterization of a Novel HLA-DRB1*04:01-Restricted β -Enolase T Cell Epitope in Rheumatoid Arthritis. <i>Frontiers in Immunology</i> , 2016, 7, 494.	2.2	73
65	Distinguishing and Quantifying Peptides and Proteins Containing γ -Amino Acids by Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 4571-4580.	3.2	70
66	De novo sequencing of antimicrobial peptides isolated from the venom glands of the wolf spider <i>Lycosa singoriensis</i> . <i>Journal of Mass Spectrometry</i> , 2004, 39, 193-201.	0.7	68
67	Side-Chain Losses in Electron Capture Dissociation To Improve Peptide Identification. <i>Analytical Chemistry</i> , 2007, 79, 2296-2302.	3.2	68
68	Blood Plasma IgG Fc Glycans are Significantly Altered in Alzheimer's Disease and Progressive Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 567-579.	1.2	66
69	Tetrathiafulvaleno-Annulated Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2497-2500.	7.2	64
70	Electron capture dissociation of weakly bound polypeptide polycationic complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 2260-2265.	0.7	64
71	Cerebrospinal fluid protein patterns in neurodegenerative disease revealed by liquid chromatography-Fourier transform ion cyclotron resonance mass spectrometry. <i>Proteomics</i> , 2004, 4, 4010-4018.	1.3	64
72	Covariation of Peptide Abundances Accurately Reflects Protein Concentration Differences. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 936-948.	2.5	64

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73	Structural Basis of Cross-Reactivity of Anti-Citrullinated Protein Antibodies. <i>Arthritis and Rheumatology</i> , 2019, 71, 210-221.	2.9	64
74	DeMix-Q: Quantification-Centered Data Processing Workflow. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1467-1478.	2.5	63
75	Proteomic Pathway Analysis Reveals Inflammation Increases Myeloid-Derived Suppressor Cell Resistance to Apoptosis. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.002980.	2.5	60
76	Prediction of N-C bond cleavage frequencies in electron capture dissociation of Trp-cage dications by force-field molecular dynamics simulations. <i>International Journal of Mass Spectrometry</i> , 2006, 248, 124-135.	0.7	59
77	MS analysis of rheumatoid arthritic synovial tissue identifies specific citrullination sites on fibrinogen. <i>Proteomics - Clinical Applications</i> , 2010, 4, 511-518.	0.8	59
78	High levels of the adhesion molecule CD44 on leukemic cells generate acute myeloid leukemia relapse after withdrawal of the initial transforming event. <i>Leukemia</i> , 2011, 25, 515-526.	3.3	59
79	Intramolecular hydrogen atom transfer in hydrogen-deficient polypeptide radical cations. <i>Chemical Physics Letters</i> , 2000, 330, 558-562.	1.2	58
80	Comprehensive chemical proteomics for target deconvolution of the redox active drug auranofin. <i>Redox Biology</i> , 2020, 32, 101491.	3.9	58
81	Can the (M+X) Region in Electron Capture Dissociation Provide Reliable Information on Amino Acid Composition of Polypeptides?. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 461-469.	0.5	55
82	Bifurcating Fragmentation Behavior of Gas-Phase Tryptic Peptide Dications in Collisional Activation. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1755-1763.	1.2	55
83	Zwitterionic States in Gas-Phase Polypeptide Ions Revealed by 157-nm Ultra-Violet Photodissociation. <i>Chemistry - A European Journal</i> , 2006, 12, 7920-7928.	1.7	54
84	Structural basis of SUFU-Gli interaction in human Hedgehog signalling regulation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2563-2579.	2.5	54
85	Cationic gold nanoparticles elicit mitochondrial dysfunction: a multi-omics study. <i>Scientific Reports</i> , 2019, 9, 4366.	1.6	54
86	Approaches and Limits for Accurate Mass Characterization of Large Biomolecules. <i>Analytical Chemistry</i> , 1995, 67, 3793-3798.	3.2	53
87	MH2+... ion production from protonated polypeptides by electron impact: observation and determination of ionization energies and a cross-section. <i>Chemical Physics Letters</i> , 2000, 316, 19-23.	1.2	53
88	Immunoaffinity Enrichments Followed by Mass Spectrometric Detection for Studying Global Protein Tyrosine Phosphorylation. <i>Journal of Proteome Research</i> , 2008, 7, 2897-2910.	1.8	52
89	DeMix Workflow for Efficient Identification of Cofragmented Peptides in High Resolution Data-dependent Tandem Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 3211-3223.	2.5	52
90	Binding of Pro-Gly-Pro at the active site of leukotriene A ₄ hydrolase/aminopeptidase and development of an epoxide hydrolase selective inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4227-4232.	3.3	50

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91	Cell line profiling to improve monoclonal antibody production. <i>Biotechnology and Bioengineering</i> , 2014, 111, 748-760.	1.7	50
92	<i>De novo</i> sequencing of peptides secreted by the skin glands of the Caucasian Green Frog <i>Rana ridibunda</i>. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3517-3525.	0.7	48
93	Sequence Scrambling in Shotgun Proteomics is Negligible. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1121-1124.	1.2	48
94	Autoreactivity to malondialdehyde-modifications in rheumatoid arthritis is linked to disease activity and synovial pathogenesis. <i>Journal of Autoimmunity</i> , 2017, 84, 29-45.	3.0	48
95	ProTargetMiner as a proteome signature library of anticancer molecules for functional discovery. <i>Nature Communications</i> , 2019, 10, 5715.	5.8	47
96	A Direct Comparison of Protein Structure in the Gas and Solution Phase:â€‰ The Trp-cage. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13147-13150.	1.2	46
97	Approach for Identifying Human Leukocyte Antigen (HLA)-DR Bound Peptides from Scarce Clinical Samples. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3017-3029.	2.5	46
98	Prognostic Polypeptide Blood Plasma Biomarkers of Alzheimer's Disease Progression. <i>Journal of Alzheimer's Disease</i> , 2014, 40, 659-666.	1.2	44
99	Functional Identification of Target by Expression Proteomics (FITExP) reveals protein targets and highlights mechanisms of action of small molecule drugs. <i>Scientific Reports</i> , 2015, 5, 11176.	1.6	44
100	System-wide identification and prioritization of enzyme substrates by thermal analysis. <i>Nature Communications</i> , 2021, 12, 1296.	5.8	44
101	Ionization energies of multiply protonated polypeptides obtained by tandem ionization in Fourier transform mass spectrometers. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1141-1144.	0.7	43
102	Can relative cleavage frequencies in peptides provide additional sequence information?. <i>International Journal of Mass Spectrometry</i> , 2002, 219, 283-294.	0.7	42
103	Analytical Utility of Small Neutral Losses from Reduced Species in Electron Capture Dissociation Studied Using SwedECD Database. <i>Analytical Chemistry</i> , 2008, 80, 8089-8094.	3.2	42
104	Conformational Selection in Biocatalytic Plastic Degradation by PETase. <i>ACS Catalysis</i> , 2022, 12, 3397-3409.	5.5	42
105	Secondary Losses via $\hat{1}^3$ -Lactam Formation in Hot Electron Capture Dissociation:â€‰ A Missing Link to Complete de Novo Sequencing of Proteins?. <i>Journal of the American Chemical Society</i> , 2003, 125, 6628-6629.	6.6	41
106	Dissociation of peptide ions by fast atom bombardment in a quadrupole ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2163-2171.	0.7	41
107	Variable domain Nâ€linked glycosylation and negative surface charge are key features of monoclonal ACPA: Implications for Bâ€cell selection. <i>European Journal of Immunology</i> , 2018, 48, 1030-1045.	1.6	41
108	Optimizing Recombinant Protein Production in the Escherichia coli Periplasm Alleviates Stress. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	41

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109	C57BL/6 mice need MHC class II Aq to develop collagen-induced arthritis dependent on autoreactive T cells. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 1225-1232.	0.5	40
110	PhosTShunter: A Fast and Reliable Tool to Detect Phosphorylated Peptides in Liquid Chromatography Fourier Transform Tandem Mass Spectrometry Data Sets. <i>Journal of Proteome Research</i> , 2006, 5, 659-668.	1.8	39
111	Toward Proteome-Scale Identification and Quantification of Isoaspartyl Residues in Biological Samples. <i>Journal of Proteome Research</i> , 2009, 8, 4615-4621.	1.8	39
112	The Effects of 5-Fluorouracil on the Proteome of Colon Cancer Cells. <i>Journal of Proteome Research</i> , 2013, 12, 1969-1979.	1.8	39
113	Two-dimensional mass spectrometry of biomolecules at the subfemtomole level. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 571-578.	2.8	38
114	Chemosensory proteins, major salivary factors in caterpillar mandibular glands. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 796-805.	1.2	38
115	Protein primary structure using orthogonal fragmentation techniques in Fourier transform mass spectrometry. <i>Expert Review of Proteomics</i> , 2006, 3, 251-261.	1.3	37
116	Lysine-specific demethylase 1A restricts ex vivo propagation of human HSCs and is a target of UM171. <i>Blood</i> , 2020, 136, 2151-2161.	0.6	37
117	Letter: The Diagnostic Value of Amino Acid Side-Chain Losses in Electron Capture Dissociation of Polypeptides. Comment on: "Can the (M+X) Region in Electron Capture Dissociation Provide Reliable Information on Amino Acid Composition of Polypeptides?" <i>Eur. J. Mass Spectrom.</i> 8, 461-469 (2002). <i>European Journal of Mass Spectrometry</i> , 2003, 9, 221-222.	0.5	36
118	Calibration function for the orbitrap FTMS accounting for the space charge effect. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1846-1851.	1.2	36
119	Impact of Temperature Dependent Sampling Procedures in Proteomics and Peptidomics " A Characterization of the Liver and Pancreas Post Mortem Degradome. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M900229-MCP200.	2.5	35
120	IgG Fc galactosylation predicts response to methotrexate in early rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2017, 19, 182.	1.6	35
121	Determination of the location of positive charges in gas-phase polypeptide polycations by tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006, 252, 204-212.	0.7	34
122	Cytotoxic and Proinflammatory Effects of Metal-Based Nanoparticles on THP-1 Monocytes Characterized by Combined Proteomics Approaches. <i>Journal of Proteome Research</i> , 2017, 16, 689-697.	1.8	34
123	IgM antibodies against phosphorylcholine promote polarization of T regulatory cells from patients with atherosclerotic plaques, systemic lupus erythematosus and healthy donors. <i>Atherosclerosis</i> , 2018, 268, 36-48.	0.4	34
124	Anticancer Effect of Deuterium Depleted Water - Redox Disbalance Leads to Oxidative Stress. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 2373-2387.	2.5	34
125	Probing Combinatorial Library Diversity by Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2893-2900.	3.2	33
126	Tandem MALDI/El ionization for tandem Fourier transform ion cyclotron resonance mass spectrometry of polypeptides. <i>International Journal of Mass Spectrometry</i> , 2003, 226, 181-187.	0.7	33

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127	On studying protein phosphorylation patterns using bottom-up LC-MS/MS: the case of human β -casein. <i>Analyst</i> , 2007, 132, 768-776.	1.7	33
128	Identification of dominant signaling pathways from proteomics expression data. <i>Journal of Proteomics</i> , 2008, 71, 89-96.	1.2	33
129	The Exosome Associates Cotranscriptionally with the Nascent Pre-mRNP through Interactions with Heterogeneous Nuclear Ribonucleoproteins. <i>Molecular Biology of the Cell</i> , 2009, 20, 3459-3470.	0.9	33
130	Proteomic Analysis of Mouse Brain Subjected to Spaceflight. <i>International Journal of Molecular Sciences</i> , 2019, 20, 7.	1.8	33
131	Development of autoantibodies against muscle-specific FHL1 in severe inflammatory myopathies. <i>Journal of Clinical Investigation</i> , 2015, 125, 4612-4624.	3.9	33
132	Comparison of electron capture dissociation and collisionally activated dissociation of polycations of peptide nucleic acids. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 969-974.	0.7	32
133	Apoptotic, Regenerative, And Immune-Related Signaling in Human Islets from Type 2 Diabetes Individuals. <i>Journal of Proteome Research</i> , 2009, 8, 5650-5656.	1.8	32
134	Probing solution- and gas-phase structures of Trp-cage cations by chiral substitution and spectroscopic techniques. <i>International Journal of Mass Spectrometry</i> , 2006, 253, 263-273.	0.7	31
135	Room-Temperature Infrared Spectroscopy Combined with Mass Spectrometry Distinguishes Gas-Phase Protein Isomers. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8340-8342.	7.2	31
136	IgG Antibodies to Cyclic Citrullinated Peptides Exhibit Profiles Specific in Terms of IgG Subclasses, Fc-Glycans and a Fab-Peptide Sequence. <i>PLoS ONE</i> , 2014, 9, e113924.	1.1	31
137	Tetrathiafulvalene-phenanthroline macrocycles as redox responsive sensors for metal ions. <i>Chemical Communications</i> , 2000, , 215-216.	2.2	30
138	Predictive urinary biomarkers for steroid-resistant and steroid-sensitive focal segmental glomerulosclerosis using high resolution mass spectrometry and multivariate statistical analysis. <i>BMC Nephrology</i> , 2014, 15, 141.	0.8	30
139	Bacterial citrullinated epitopes generated by <i>Porphyromonas gingivalis</i> infection—a missing link for ACPA production. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 1194-1202.	0.5	30
140	DAF-16/FOXO requires Protein Phosphatase 4 to initiate transcription of stress resistance and longevity promoting genes. <i>Nature Communications</i> , 2020, 11, 138.	5.8	30
141	SwedCAD, a Database of Annotated High-Mass Accuracy MS/MS Spectra of Tryptic Peptides. <i>Journal of Proteome Research</i> , 2007, 6, 4063-4067.	1.8	28
142	Alzheimer's Disease and Mild Cognitive Impairment are Associated with Elevated Levels of Isoaspartyl Residues in Blood Plasma Proteins. <i>Journal of Alzheimer's Disease</i> , 2011, 27, 113-118.	1.2	28
143	Isotopic Resonance Hypothesis: Experimental Verification by <i>Escherichia coli</i> Growth Measurements. <i>Scientific Reports</i> , 2015, 5, 9215.	1.6	28
144	SpotLight Proteomics: uncovering the hidden blood proteome improves diagnostic power of proteomics. <i>Scientific Reports</i> , 2017, 7, 41929.	1.6	27

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145	Isotope depletion of large biomolecules: Implications for molecular mass measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 149-156.	1.2	26
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