

Katalin F Medzihradzky

List of Publications by Year in descending order

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62
papers

3,891
citations

117625

34
h-index

133252

59
g-index

66
all docs

66
docs citations

66
times ranked

4674
citing authors

#	ARTICLE	IF	CITATIONS
1	The Characteristics of Peptide Collision-Induced Dissociation Using a High-Performance MALDI-TOF/TOF Tandem Mass Spectrometer. <i>Analytical Chemistry</i> , 2000, 72, 552-558.	6.5	503
2	O-Linked N-Acetylglucosamine Proteomics of Postsynaptic Density Preparations Using Lectin Weak Affinity Chromatography and Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 923-934.	3.8	312
3	A heteromeric Texas coral snake toxin targets acid-sensing ion channels to produce pain. <i>Nature</i> , 2011, 479, 410-414.	27.8	295
4	In-depth Analysis of Tandem Mass Spectrometry Data from Disparate Instrument Types. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2386-2398.	3.8	181
5	Lessons in <i>de novo</i> peptide sequencing by tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2015, 34, 43-63.	5.4	167
6	N- and O-Glycosylation in the Murine Synaptosome. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3474-3488.	3.8	151
7	Peptide Sequence Analysis. <i>Methods in Enzymology</i> , 2005, 402, 209-244.	1.0	136
8	Tissue-Specific Glycosylation at the Glycopeptide Level. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2103-2110.	3.8	97
9	Characterization of Protein N-Glycosylation. <i>Methods in Enzymology</i> , 2005, 405, 116-138.	1.0	89
10	Matrix-Assisted Laser Desorption/Ionization Coupled with Quadrupole/Orthogonal Acceleration Time-of-Flight Mass Spectrometry for Protein Discovery, Identification, and Structural Analysis. <i>Analytical Chemistry</i> , 2001, 73, 1707-1720.	6.5	88
11	Structural Characterization of Site-Specific N-Glycosylation of Recombinant Human Factor VIII by Reversed-Phase High-Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 3986-3994.	6.5	85
12	Affinity Enrichment and Characterization of Mucin Core-1 Type Glycopeptides from Bovine Serum. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2515-2526.	3.8	81
13	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. <i>Nature Methods</i> , 2021, 18, 1304-1316.	19.0	74
14	Analysis of Mammalian O-Glycopeptides-We Have Made a Good Start, but There is a Long Way to Go. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2-17.	3.8	73
15	Peptide sequence determination by matrix-assisted laser desorption ionization employing a tandem double focusing magnetic-Orthogonal acceleration time-of-flight mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 1-10.	2.8	72
16	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. <i>Cell</i> , 2019, 178, 1362-1374.e16.	28.9	72
17	Nucleolin-Mediated RNA Localization Regulates Neuron Growth and Cycling Cell Size. <i>Cell Reports</i> , 2016, 16, 1664-1676.	6.4	64
18	Synthesis and characterization of histidine-phosphorylated peptides. <i>Protein Science</i> , 1997, 6, 1405-1411.	7.6	61

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19	Cysteine S-linked N-acetylglucosamine (S-GlcNAcylation), A New Post-translational Modification in Mammals. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3405-3411.	3.8	60
20	Characterizing Sialic Acid Variants at the Glycopeptide Level. <i>Analytical Chemistry</i> , 2015, 87, 3064-3071.	6.5	57
21	The primary structure of fatty-acid-binding protein from nurse shark liver. Structural and evolutionary relationship to the mammalian fatty-acid-binding protein family. <i>FEBS Journal</i> , 1992, 203, 327-339.	0.2	56
22	Sulfopeptide fragmentation in electron-capture and electron-transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1617-1624.	2.8	56
23	Differential Proteomics Reveals Multiple Components in Retrogradely Transported Axoplasm After Nerve Injury. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 510-520.	3.8	54
24	Improving Software Performance for Peptide Electron Transfer Dissociation Data Analysis by Implementation of Charge State- and Sequence-Dependent Scoring. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1795-1803.	3.8	53
25	Structure determination of O-linked glycopeptides by tandem mass spectrometry. <i>Biological Mass Spectrometry</i> , 1990, 19, 777-781.	0.5	49
26	In-solution Digestion of Proteins for Mass Spectrometry. <i>Methods in Enzymology</i> , 2005, 405, 50-65.	1.0	45
27	Protein identification by in-gel digestion, high-performance liquid chromatography, and mass spectrometry: Peptide analysis by complementary ionization techniques. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 215-221.	2.8	43
28	Glycoforms obtained by expression in <i>Pichia pastoris</i> improve cancer targeting potential of a recombinant antibody-enzyme fusion protein. <i>Glycobiology</i> , 2003, 14, 27-37.	2.5	42
29	Characterization of O-glycosylation sites in recombinant B-chain of platelet-derived growth factor expressed in yeast using liquid secondary ion mass spectrometry, tandem mass spectrometry and edman sequence analysis. <i>Biological Mass Spectrometry</i> , 1990, 19, 665-676.	0.5	41
30	Mass Spectrometric Analysis, Automated Identification and Complete Annotation of O-Linked Glycopeptides. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 421-428.	1.0	41
31	N-Glycopeptide Profiling in <i>Arabidopsis</i> Inflorescence. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2048-2054.	3.8	41
32	Structure-function analysis of peroxidase provides insight into the mechanism of collagen IV crosslinking. <i>Free Radical Biology and Medicine</i> , 2015, 83, 273-282.	2.9	39
33	Inhibition of cathepsin B reduces β -amyloid production in regulated secretory vesicles of neuronal chromaffin cells: evidence for cathepsin B as a candidate β -secretase of Alzheimer's disease. <i>Biological Chemistry</i> , 2005, 386, 1325-1325.	2.5	38
34	Identification of nodule-specific cysteine-rich plant peptides in endosymbiotic bacteria. <i>Proteomics</i> , 2015, 15, 2291-2295.	2.2	37
35	Lys49 myotoxin from the Brazilian lancehead pit viper elicits pain through regulated ATP release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2524-E2532.	7.1	37
36	Status Report on the High-Throughput Characterization of Complex Intact O-Glycopeptide Mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1210-1220.	2.8	37

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37	O-glycosylation sites identified from mucin core-1 type glycopeptides from human serum. <i>Glycoconjugate Journal</i> , 2016, 33, 435-445.	2.7	36
38	Phosphorylation of Native and Heme-Modified CYP3A4 by Protein Kinase C: A Mass Spectrometric Characterization of the Phosphorylated Peptides. <i>Biochemistry</i> , 2001, 40, 11318-11326.	2.5	32
39	Characterization of Site-specific N-Glycosylation. , 2008, 446, 293-316.		32
40	Improved identification of O-linked glycopeptides from ETD data with optimized scoring for different charge states and cleavage specificities. <i>Amino Acids</i> , 2011, 41, 321-328.	2.7	31
41	Photoactivatable protein labeling by singlet oxygen mediated reactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3359-3363.	2.2	31
42	Extracellular Protein Phosphorylation, the Neglected Side of the Modification. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1-7.	3.8	29
43	Carbamidomethylation Side Reactions May Lead to Glycan Misassignments in Glycopeptide Analysis. <i>Analytical Chemistry</i> , 2015, 87, 6297-6302.	6.5	26
44	Translatome Regulation in Neuronal Injury and Axon Regrowth. <i>ENeuro</i> , 2018, 5, ENEURO.0276-17.2018.	1.9	26
45	Fragmentation and sequencing of cyclic peptides by matrix-assisted laser desorption/ionization post-source decay mass spectrometry. , 1999, 13, 2174-2179.		24
46	Extended Sialylated O-Glycan Repertoire of Human Urinary Glycoproteins Discovered and Characterized Using Electron-Transfer/Higher-Energy Collision Dissociation. <i>Journal of Proteome Research</i> , 2019, 18, 280-291.	3.7	23
47	Artifacts in four-sector tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 318-322.	1.5	22
48	Reverse-phase capillary high performance liquid chromatography/high performance electrospray ionization mass spectrometry: an essential tool for the characterization of complex glycoprotein digests. , 1998, 12, 472-478.		20
49	Partial De Novo Sequencing and Unusual CID Fragmentation of a 7 kDa, Disulfide-Bridged Toxin. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 923-934.	2.8	16
50	Glycan Side Reaction May Compromise ETD-Based Glycopeptide Identification. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 977-987.	2.8	16
51	The effectiveness of filtering glycopeptide peak list files for Y ions. <i>Molecular Omics</i> , 2020, 16, 147-155.	2.8	14
52	Factors that contribute to the complexity of protein digests. <i>Drug Discovery Today: TARGETS</i> , 2004, 3, 3-10.	0.5	10
53	Immobilized metal affinity chromatography optimized for the analysis of extracellular phosphorylation. <i>Proteomics</i> , 2016, 16, 1858-1862.	2.2	10
54	Isolation and analyses of axonal ribonucleoprotein complexes. <i>Methods in Cell Biology</i> , 2016, 131, 467-486.	1.1	9

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55	Using "spectral families" to assess the reproducibility of glycopeptide enrichment: human serum O-glycosylation revisited. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 539-550.	3.7	9
56	Characterization of Site-Specific N-Glycosylation. <i>Methods in Molecular Biology</i> , 2019, 1934, 93-125.	0.9	9
57	Specific Azidophenyldiazene Hemoprotein Active Site Probes. Cross-Linking of the Heme to His-64 in Myoglobin. <i>Journal of the American Chemical Society</i> , 1998, 120, 7404-7410.	13.7	8
58	Unusual Fragmentation of Pro-Ser/Thr-Containing Peptides Detected in Collision-Induced Dissociation Spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 602-607.	2.8	8
59	Noncovalent Dimer Formation in Liquid Chromatography-Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2014, 86, 8906-8909.	6.5	7
60	Mass spectrometry analysis for the determination of side reactions for cyclic peptides prepared from an Fmoc/tBu/Dmab protecting group strategy. <i>International Journal of Peptide Research and Therapeutics</i> , 2001, 8, 1-12.	0.1	2
61	Characterization of Site-Specific Glycosylation. , 2002, 194, 101-125.		2
62	Title is missing!. <i>International Journal of Peptide Research and Therapeutics</i> , 2001, 8, 1-12.	0.1	1