Jeffrey Shabanowitz

List of Publications by Year
in descending order

78 papers	7,580 citations	87888 38 h-index	71685 76 g-index
79 all docs	79 docs citations	79 times ranked	7369 citing authors

#	Article	IF	Citations
1	Peptide and protein sequence analysis by electron transfer dissociation mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9528-9533.	7.1	2,174
2	Protein identification using sequential ion/ion reactions and tandem mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9463-9468.	7.1	362
3	Subfemtomole MS and MS/MS Peptide Sequence Analysis Using Nano-HPLC Micro-ESI Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2000, 72, 4266-4274.	6.5	306
4	Tandem mass spectrometry identifies many mouse brain O -GlcNAcylated proteins including EGF domain-specific O -GlcNAc transferase targets. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7280-7285.	7.1	275
5	Extensive Crosstalk Between O-GlcNAcylation and Phosphorylation Regulates Cytokinesis. Science Signaling, 2010, 3, ra2.	3.6	262
6	A Myosin I Isoform in the Nucleus. Science, 2000, 290, 337-341.	12.6	220
7	Substrate recognition by ADAR1 and ADAR2. Rna, 2001, 7, 846-858.	3.5	193
8	Phosphorylated Peptides Are Naturally Processed and Presented by Major Histocompatibility Complex Class I Molecules in Vivo. Journal of Experimental Medicine, 2000, 192, 1755-1762.	8.5	192
9	The Immunogenicity of a New Human Minor Histocompatibility Antigen Results from Differential Antigen Processing. Journal of Experimental Medicine, 2001, 193, 195-206.	8.5	191
10	Anion dependence in the partitioning between proton and electron transfer in ion/ion reactions. International Journal of Mass Spectrometry, 2004, 236, 33-42.	1.5	188
11	MHC Class Iâ€“Associated Phosphopeptides Are the Targets of Memory-like Immunity in Leukemia. Science Translational Medicine, 2013, 5, 203ra125.	12.4	186
12	Identification of class I MHC-associated phosphopeptides as targets for cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14889-14894.	7.1	168
13	Cross-talk between Two Essential Nutrient-sensitive Enzymes. Journal of Biological Chemistry, 2014, 289, 10592-10606.	3.4	154
14	Nuclear Import of Histone H2a and H2b Is Mediated by a Network of Karyopherins. Journal of Cell Biology, 2001, 153, 251-262.	5.2	153
15	Phosphorylation-dependent interaction between antigenic peptides and MHC class I: a molecular basis for the presentation of transformed self. Nature Immunology, 2008, 9, 1236-1243.	14.5	130
16	The Arabidopsis O-fucosyltransferase SPINDLY activates nuclear growth repressor DELLA. Nature Chemical Biology, 2017, 13, 479-485.	8.0	130
17	Identification of Cyclin B1 as a Shared Human Epithelial Tumor-Associated Antigen Recognized by T Cells. Journal of Experimental Medicine, 2001, 194, 1313-1324.	8.5	119
18	Surface-induced dissociation of peptide ions in Fourier-transform mass spectrometry. Journal of the American Society for Mass Spectrometry, 1990, 1, 413-416.	2.8	108

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19	Susceptibility to ankylosing spondylitis correlates with the C-terminal residue of peptides presented by various HLA-B27 subtypes. European Journal of Immunology, 1997, 27, 368-373.	2.9	107
20	Identification of Glycopeptides as Posttranslationally Modified Neoantigens in Leukemia. Cancer Immunology Research, 2017, 5, 376-384.	3.4	106
21	O-GlcNAcylation of master growth repressor DELLA by SECRET AGENT modulates multiple signaling pathways in Arabidopsis. Genes and Development, 2016, 30, 164-176.	5.9	101
22	Characterization of the histone H2A.Z-1 and H2A.Z-2 isoforms in vertebrates. BMC Biology, 2009, 7, 86.	3.8	89
23	Cortactin phosphorylation sites mapped by mass spectrometry. Journal of Cell Science, 2006, 119, 2851-2853.	2.0	84
24	Methods for analyzing peptides and proteins on a chromatographic timescale by electron-transfer dissociation mass spectrometry. Nature Protocols, 2008, 3, 1709-1717.	12.0	83
25	Acetylation of Vertebrate H2A.Z and Its Effect on the Structure of the Nucleosome. Biochemistry, 2009, 48, 5007-5017.	2.5	83
26	Analysis of intact proteins on a chromatographic time scale by electron transfer dissociation tandem mass spectrometry. International Journal of Mass Spectrometry, 2007, 259, 197-203.	1.5	80
27	Sequence analysis of polypeptides by collision activated dissociation on a triple quadrupole mass spectrometer. Biological Mass Spectrometry, 1981, 8, 397-408.	0.5	78
28	A Dual Inhibitory Mechanism Sufficient to Maintain Cell-Cycle-Restricted CENP-A Assembly. Molecular Cell, 2017, 65, 231-246.	9.7	71
29	Complementary IMAC enrichment methods for HLA-associated phosphopeptide identification by mass spectrometry. Nature Protocols, 2015, 10, 1308-1318.	12.0	67
30	A novel Î¼-ESI source for coupling capillary electrophoresis and mass spectrometry: Sequence determination of tumor peptides at the attomole level. Journal of Separation Science, 1998, 10, 281-285.	1.0	59
31	Front-End Electron Transfer Dissociation: A New Ionization Source. Analytical Chemistry, 2013, 85, 8385-8390.	6.5	56
32	Methylation of histone H3K23 blocks DNA damage in pericentric heterochromatin during meiosis. ELife, 2014, 3, e02996.	6.0	51
33	Protein Arginine Methyltransferase Prmt5-Mep50 Methylates Histones H2A and H4 and the Histone Chaperone Nucleoplasmin in Xenopus laevis Eggs. Journal of Biological Chemistry, 2011, 286, 42221-42231.	3.4	49
34	Identification of endogenous peptides recognized byin vivo orin vitro generated alloreactive cytotoxic T lymphocytes: distinct characteristics correlated with CD8 dependence. European Journal of Immunology, 2001, 31, 421-432.	2.9	48
35	Oligopeptide sequence analysis by collision-activated dissociation of multiply charged ions. Rapid Communications in Mass Spectrometry, 1989, 3, 122-124.	1.5	47
36	MHC-restricted phosphopeptide antigens: preclinical validation and first-in-humans clinical trial in participants with high-risk melanoma. , 2020, 8, e000262.		44

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37	Analyses of Histone Proteoforms Using Front-end Electron Transfer Dissociation-enabled Orbitrap Instruments. Molecular and Cellular Proteomics, 2016, 15, 975-988.	3.8	43
38	Optimization of Electron Transfer Dissociation via Informed Selection of Reagents and Operating Parameters. Analytical Chemistry, 2012, 84, 1781-1785.	6.5	42
39	The antigenic identity of human class I MHC phosphopeptides is critically dependent upon phosphorylation status. Oncotarget, 2017, 8, 54160-54172.	1.8	42
40	Developmentally Regulated Post-translational Modification of Nucleoplasmin Controls Histone Sequestration and Deposition. Cell Reports, 2015, 10, 1735-1748.	6.4	41
41	Identification of the Post-translational Modifications Present in Centromeric Chromatin. Molecular and Cellular Proteomics, 2016, 15, 918-931.	3.8	41
42	Canonical and Cross-reactive Binding of NK Cell Inhibitory Receptors to HLA-C Allotypes Is Dictated by Peptides Bound to HLA-C. Frontiers in Immunology, 2017, 8, 193.	4.8	40
43	O-Linked Î²-N-Acetylglucosamine (O-GlcNAc) Regulates Emerin Binding to Barrier to Autointegration Factor (BAF) in a Chromatin- and Lamin B-enriched â€œNicheâ€• Journal of Biological Chemistry, 2013, 288, 30192-30209.	3.4	39
44	Front-End Electron Transfer Dissociation Coupled to a 21 Tesla FT-ICR Mass Spectrometer for Intact Protein Sequence Analysis. Journal of the American Society for Mass Spectrometry, 2017, 28, 1787-1795.	2.8	33
45	Comprehensive Analysis of Phosphorylation Sites in Tensin1 Reveals Regulation by p38MAPK. Molecular and Cellular Proteomics, 2010, 9, 2853-2863.	3.8	31
46	Analysis of Monoclonal Antibody Sequence and Post-translational Modifications by Time-controlled Proteolysis and Tandem Mass Spectrometry. Molecular and Cellular Proteomics, 2016, 15, 1479-1488.	3.8	31
47	Protein derivatization and sequential ion/ion reactions to enhance sequence coverage produced by electron transfer dissociation mass spectrometry. International Journal of Mass Spectrometry, 2015, 377, 617-624.	1.5	27
48	Ion-Ion Proton Transfer and Parallel Ion Parking for the Analysis of Mixtures of Intact Proteins on a Modified Orbitrap Mass Analyzer. Journal of the American Society for Mass Spectrometry, 2019, 30, 2163-2173.	2.8	27
49	Identification of phosphorylation sites in GIT1. Journal of Cell Science, 2006, 119, 2847-2850.	2.0	26
50	Phosphorylation and arginine methylation mark histone H2A prior to deposition during Xenopus laevis development. Epigenetics and Chromatin, 2014, 7, 22.	3.9	26
51	O-GlcNAc Site Mapping by Using a Combination of Chemoenzymatic Labeling, Copper-Free Click Chemistry, Reductive Cleavage, and Electron-Transfer Dissociation Mass Spectrometry. Analytical Chemistry, 2019, 91, 2620-2625.	6.5	24
52	Independent transcriptomic and proteomic regulation by type I and II protein arginine methyltransferases. IScience, 2021, 24, 102971.	4.1	20
53	Tyrosine Phosphorylation of the Myosin Regulatory Light Chain Controls Non-muscle Myosin II Assembly and Function in Migrating Cells. Current Biology, 2020, 30, 2446-2458.e6.	3.9	18
54	Protamines from liverwort are produced by post-translational cleavage and C-terminal di-aminopropanelation of several male germ-specific H1 histones. Journal of Biological Chemistry, 2019, 294, 16364-16373.	3.4	17

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55	Phosphorylation coexists with Oâ€GlcNAcylation in a plant virus protein and influences viral infection. Molecular Plant Pathology, 2018, 19, 1427-1443.	4.2	16
56	Characterization of a helixâ€loopâ€helix (EF hand) motif of silver hake parvalbumin isoform B. Protein Science, 1997, 6, 2397-2408.	7.6	15
57	Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases Mass-spectrometric analysis of plant, lower vertebrate and higher vertebrate class I, II, and III forms of the enzyme. FEBS Letters, 1995, 367, 237-240.	2.8	14
58	OGT (O-GlcNAc Transferase) Selectively Modifies Multiple Residues Unique to Lamin A. Cells, 2018, 7, 44.	4.1	14
59	Tumor Infiltrating Lymphocytes Target HLA-I Phosphopeptides Derived From Cancer Signaling in Colorectal Cancer. Frontiers in Immunology, 2021, 12, 723566.	4.8	14
60	Transcription factor binding at Ig enhancers is linked to somatic hypermutation targeting. European Journal of Immunology, 2020, 50, 380-395.	2.9	12
61	Acyclovir Has Low but Detectable Influence on HLA-B*57:01 Specificity without Inducing Hypersensitivity. PLoS ONE, 2015, 10, e0124878.	2.5	11
62	Peptide Sequence Analysis by Electron Transfer Dissociation Mass Spectrometry: A Web-Based Tutorial. Journal of the American Society for Mass Spectrometry, 2015, 26, 1256-1258.	2.8	11
63	MHC Phosphopeptides: Promising Targets for Immunotherapy of Cancer and Other Chronic Diseases. Molecular and Cellular Proteomics, 2021, 20, 100112.	3.8	11
64	Advanced Strategies for Proton-Transfer Reactions Coupled with Parallel Ion Parking on a 21 T FT-ICR MS for Intact Protein Analysis. Analytical Chemistry, 2021, 93, 9119-9128.	6.5	10
65	Direct Target Site Identification of a Sulfonylâ€“Triazole Covalent Kinase Probe by LC-MS Chemical Proteomics. Analytical Chemistry, 2021, 93, 11946-11955.	6.5	10
66	Murine xenograft bioreactors for human immunopeptidome discovery. Scientific Reports, 2019, 9, 18558.	3.3	9
67	Reinspection of a Clinical Proteomics Tumor Analysis Consortium (CPTAC) Dataset with Cloud Computing Reveals Abundant Post-Translational Modifications and Protein Sequence Variants. Cancers, 2021, 13, 5034.	3.7	9
68	The common equine class I molecule Eqca-1*00101 (ELA-A3.1) is characterized by narrow peptide binding and T cell epitope repertoires. Immunogenetics, 2015, 67, 675-689.	2.4	7
69	Deciphering the Enigma of the Histone H2A.Z-1/H2A.Z-2 Isoforms: Novel Insights and Remaining Questions. Cells, 2020, 9, 1167.	4.1	7
70	Fourier Transform Mass Spectrometry of Large (m/z >5,000) Biomolecules. ACS Symposium Series, 1987, , 100-115.	0.5	6
71	Improved Sequence Analysis of Intact Proteins by Parallel Ion Parking during Electron Transfer Dissociation. Analytical Chemistry, 2021, 93, 15728-15735.	6.5	6
72	Characterization of the peptide binding specificity of the HLA class I alleles B*38:01 and B*39:06. Immunogenetics, 2016, 68, 231-236.	2.4	5

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73	pâ€Chlorotetrafluorophenyl esters of Nâ€protected amino acids. International Journal of Peptide and Protein Research, 1994, 44, 477-484.	0.1	4
74	Unambiguous Sequence Characterization of a Monoclonal Antibody in a Single Analysis Using a Nonspecific Immobilized Enzyme Reactor. Analytical Chemistry, 2019, 91, 13547-13554.	6.5	2
75	Sequencing a Bispecific Antibody by Controlling Chain Concentration Effects When Using an Immobilized Nonspecific Protease. Analytical Chemistry, 2020, 92, 10470-10477.	6.5	2
76	Serum protein immunogenicity: Implications for liver xenografting. Electrophoresis, 2000, 21, 965-975.	2.4	1
77	Peptide-binding motifs of two common equine class I MHC molecules in Thoroughbred horses. Immunogenetics, 2017, 69, 351-358.	2.4	1
78	Nitrogen-Containing Aromatic Radical Anions Perform Multiple Proton and Electron Transfers Near-Simultaneously with Multiply Protonated Cations. Analytical Chemistry, 2021, 93, 14365-14368.	6.5	1