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	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
2	Tumor Infiltrating Lymphocytes Target HLA-I Phosphopeptides Derived From Cancer Signaling in Colorectal Cancer. Frontiers in Immunology, 2021, 12, 723566.	4.8	14
3	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
4	Independent transcriptomic and proteomic regulation by type I and II protein arginine methyltransferases. IScience, 2021, 24, 102971.	4.1	20
5	MHC Phosphopeptides: Promising Targets for Immunotherapy of Cancer and Other Chronic Diseases. Molecular and Cellular Proteomics, 2021, 20, 100112.	3.8	11
6	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
7	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
8	Improved Sequence Analysis of Intact Proteins by Parallel Ion Parking during Electron Transfer Dissociation. Analytical Chemistry, 2021, 93, 15728-15735.	6.5	6
9	Transcription factor binding at Ig enhancers is linked to somatic hypermutation targeting. European Journal of Immunology, 2020, 50, 380-395.	2.9	12
10	MHC-restricted phosphopeptide antigens: preclinical validation and first-in-humans clinical trial in participants with high-risk melanoma. , 2020, 8, e000262.		44
11	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
12	Sequencing a Bispecific Antibody by Controlling Chain Concentration Effects When Using an Immobilized Nonspecific Protease. Analytical Chemistry, 2020, 92, 10470-10477.	6.5	2
13	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
14	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
15	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
16	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
17	Murine xenograft bioreactors for human immunopeptidome discovery. Scientific Reports, 2019, 9, 18558.	3.3	9
18	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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19	Phosphorylation coexists with Oâ€GlcNAcylation in a plant virus protein and influences viral infection. Molecular Plant Pathology, 2018, 19, 1427-1443.	4.2	16
20	OGT (O-GlcNAc Transferase) Selectively Modifies Multiple Residues Unique to Lamin A. Cells, 2018, 7, 44.	4.1	14
21	The Arabidopsis O-fucosyltransferase SPINDLY activates nuclear growth repressor DELLA. Nature Chemical Biology, 2017, 13, 479-485.	8.0	130
22	Peptide-binding motifs of two common equine class I MHC molecules in Thoroughbred horses. Immunogenetics, 2017, 69, 351-358.	2.4	1
23	Identification of Glycopeptides as Posttranslationally Modified Neoantigens in Leukemia. Cancer Immunology Research, 2017, 5, 376-384.	3.4	106
24	A Dual Inhibitory Mechanism Sufficient to Maintain Cell-Cycle-Restricted CENP-A Assembly. Molecular Cell, 2017, 65, 231-246.	9.7	71
25	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
26	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
27	The antigenic identity of human class I MHC phosphopeptides is critically dependent upon phosphorylation status. Oncotarget, 2017, 8, 54160-54172.	1.8	42
28	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
29	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
30	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
31	Analyses of Histone Proteoforms Using Front-end Electron Transfer Dissociation-enabled Orbitrap Instruments. Molecular and Cellular Proteomics, 2016, 15, 975-988.	3.8	43
32	Identification of the Post-translational Modifications Present in Centromeric Chromatin. Molecular and Cellular Proteomics, 2016, 15, 918-931.	3.8	41
33	Acyclovir Has Low but Detectable Influence on HLA-B*57:01 Specificity without Inducing Hypersensitivity. PLoS ONE, 2015, 10, e0124878.	2.5	11
34	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
35	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
36	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

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37	Complementary IMAC enrichment methods for HLA-associated phosphopeptide identification by mass spectrometry. Nature Protocols, 2015, 10, 1308-1318.	12.0	67
38	Developmentally Regulated Post-translational Modification of Nucleoplasmin Controls Histone Sequestration and Deposition. Cell Reports, 2015, 10, 1735-1748.	6.4	41
39	Phosphorylation and arginine methylation mark histone H2A prior to deposition during Xenopus laevis development. Epigenetics and Chromatin, 2014, 7, 22.	3.9	26
40	Cross-talk between Two Essential Nutrient-sensitive Enzymes. Journal of Biological Chemistry, 2014, 289, 10592-10606.	3.4	154
41	Methylation of histone H3K23 blocks DNA damage in pericentric heterochromatin during meiosis. ELife, 2014, 3, e02996.	6.0	51
42	Front-End Electron Transfer Dissociation: A New Ionization Source. Analytical Chemistry, 2013, 85, 8385-8390.	6.5	56
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	MHC Class Iâ€“Associated Phosphopeptides Are the Targets of Memory-like Immunity in Leukemia. Science Translational Medicine, 2013, 5, 203ra125.	12.4	186
45	Optimization of Electron Transfer Dissociation via Informed Selection of Reagents and Operating Parameters. Analytical Chemistry, 2012, 84, 1781-1785.	6.5	42
46	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
47	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
48	Comprehensive Analysis of Phosphorylation Sites in Tensin1 Reveals Regulation by p38MAPK. Molecular and Cellular Proteomics, 2010, 9, 2853-2863.	3.8	31
49	Extensive Crosstalk Between O-GlcNAcylation and Phosphorylation Regulates Cytokinesis. Science Signaling, 2010, 3, ra2.	3.6	262
50	Characterization of the histone H2A.Z-1 and H2A.Z-2 isoforms in vertebrates. BMC Biology, 2009, 7, 86.	3.8	89
51	Acetylation of Vertebrate H2A.Z and Its Effect on the Structure of the Nucleosome. Biochemistry, 2009, 48, 5007-5017.	2.5	83
52	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
53	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
54	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

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55	Identification of phosphorylation sites in GIT1. Journal of Cell Science, 2006, 119, 2847-2850.	2.0	26
56	Cortactin phosphorylation sites mapped by mass spectrometry. Journal of Cell Science, 2006, 119, 2851-2853.	2.0	84
57	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
58	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
59	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
60	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
61	Substrate recognition by ADAR1 and ADAR2. Rna, 2001, 7, 846-858.	3.5	193
62	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
63	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
64	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
65	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
66	Serum protein immunogenicity: Implications for liver xenografting. Electrophoresis, 2000, 21, 965-975.	2.4	1
67	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
68	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
69	A Myosin I Isoform in the Nucleus. Science, 2000, 290, 337-341.	12.6	220
70	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
71	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
72	Characterization of a helixâ€loopâ€helix (EF hand) motif of silver hake parvalbumin isoform B. Protein Science, 1997, 6, 2397-2408.	7.6	15

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73	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
74	pâ€Chlorotetrafluorophenyl esters of Nâ€protected amino acids. International Journal of Peptide and Protein Research, 1994, 44, 477-484.	0.1	4
75	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
76	Oligopeptide sequence analysis by collision-activated dissociation of multiply charged ions. Rapid Communications in Mass Spectrometry, 1989, 3, 122-124.	1.5	47
77	Fourier Transform Mass Spectrometry of Large (m/z >5,000) Biomolecules. ACS Symposium Series, 1987, , 100-115.	0.5	6
78	Sequence analysis of polypeptides by collision activated dissociation on a triple quadrupole mass spectrometer. Biological Mass Spectrometry, 1981, 8, 397-408.	0.5	78