

# Jeffrey R Whiteaker

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

5,436  
citations

186265

28  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

7295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-site assessment of the precision and reproducibility of multiple reaction monitoring-based measurements of proteins in plasma. <i>Nature Biotechnology</i> , 2009, 27, 633-641.	17.5	958
2	Integrated Proteogenomic Characterization of Human High-Grade Serous Ovarian Cancer. <i>Cell</i> , 2016, 166, 755-765.	28.9	804
3	A targeted proteomics-based pipeline for verification of biomarkers in plasma. <i>Nature Biotechnology</i> , 2011, 29, 625-634.	17.5	336
4	Phosphoproteomic analysis of chimeric antigen receptor signaling reveals kinetic and quantitative differences that affect cell function. <i>Science Signaling</i> , 2018, 11, .	3.6	323
5	An Automated and Multiplexed Method for High Throughput Peptide Immunoaffinity Enrichment and Multiple Reaction Monitoring Mass Spectrometry-based Quantification of Protein Biomarkers. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 184-196.	3.8	308
6	Antibody-based enrichment of peptides on magnetic beads for mass-spectrometry-based quantification of serum biomarkers. <i>Analytical Biochemistry</i> , 2007, 362, 44-54.	2.4	259
7	Effect of Collision Energy Optimization on the Measurement of Peptides by Selected Reaction Monitoring (SRM) Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 10116-10124.	6.5	220
8	Panorama: A Targeted Proteomics Knowledge Base. <i>Journal of Proteome Research</i> , 2014, 13, 4205-4210.	3.7	205
9	Recommendations for the Generation, Quantification, Storage, and Handling of Peptides Used for Mass Spectrometry-Based Assays. <i>Clinical Chemistry</i> , 2016, 62, 48-69.	3.2	187
10	Demonstrating the feasibility of large-scale development of standardized assays to quantify human proteins. <i>Nature Methods</i> , 2014, 11, 149-155.	19.0	178
11	Interlaboratory Evaluation of Automated, Multiplexed Peptide Immunoaffinity Enrichment Coupled to Multiple Reaction Monitoring Mass Spectrometry for Quantifying Proteins in Plasma. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.013854.	3.8	176
12	Integrated Pipeline for Mass Spectrometry-Based Discovery and Confirmation of Biomarkers Demonstrated in a Mouse Model of Breast Cancer. <i>Journal of Proteome Research</i> , 2007, 6, 3962-3975.	3.7	171
13	CPTAC Assay Portal: a repository of targeted proteomic assays. <i>Nature Methods</i> , 2014, 11, 703-704.	19.0	150
14	Clinical potential of mass spectrometry-based proteogenomics. <i>Nature Reviews Clinical Oncology</i> , 2019, 16, 256-268.	27.6	149
15	Evaluation of Large Scale Quantitative Proteomic Assay Development Using Peptide Affinity-based Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.005645.	3.8	130
16	Comparative analysis of TCR and CAR signaling informs CAR designs with superior antigen sensitivity and in vivo function. <i>Science Signaling</i> , 2021, 14, .	3.6	67
17	The evolving role of mass spectrometry in cancer biomarker discovery. <i>Cancer Biology and Therapy</i> , 2009, 8, 1083-1094.	3.4	66
18	Sequential Multiplexed Analyte Quantification Using Peptide Immunoaffinity Enrichment Coupled to Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.015347.	3.8	66

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19	Peptide Immunoaffinity Enrichment and Targeted Mass Spectrometry Enables Multiplex, Quantitative Pharmacodynamic Studies of Phospho-Signaling. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2261-2273.	3.8	56
20	Automated screening of monoclonal antibodies for SISCAPA assays using a magnetic bead processor and liquid chromatography-selected reaction monitoring-mass spectrometry. <i>Journal of Immunological Methods</i> , 2010, 353, 49-61.	1.4	55
21	Quantification of ATP7B Protein in Dried Blood Spots by Peptide Immuno-SRM as a Potential Screen for Wilson's Disease. <i>Journal of Proteome Research</i> , 2017, 16, 862-871.	3.7	49
22	Immobilized Metal Affinity Chromatography Coupled to Multiple Reaction Monitoring Enables Reproducible Quantification of Phospho-signaling. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 726-739.	3.8	46
23	Multiplexed quantification of estrogen receptor and <i>HER2/NEU</i> in tissue and cell lysates by peptide immunoaffinity enrichment mass spectrometry. <i>Proteomics</i> , 2012, 12, 1253-1260.	2.2	45
24	Normalization regarding non-random missing values in high-throughput mass spectrometry data. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2006, , 315-26.	0.7	45
25	Peptide Immunoaffinity Enrichment Coupled with Mass Spectrometry for Peptide and Protein Quantification. <i>Clinics in Laboratory Medicine</i> , 2011, 31, 385-396.	1.4	42
26	High-Affinity Recombinant Antibody Fragments (Fabs) Can Be Applied in Peptide Enrichment Immuno-MRM Assays. <i>Journal of Proteome Research</i> , 2014, 13, 2187-2196.	3.7	42
27	Optimized Protocol for Quantitative Multiple Reaction Monitoring-Based Proteomic Analysis of Formalin-Fixed, Paraffin-Embedded Tissues. <i>Journal of Proteome Research</i> , 2016, 15, 2717-2728.	3.7	42
28	Loss of TGF $\beta$ signaling increases alternative end-joining DNA repair that sensitizes to genotoxic therapies across cancer types. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	33
29	Using the CPTAC Assay Portal to Identify and Implement Highly Characterized Targeted Proteomics Assays. <i>Methods in Molecular Biology</i> , 2016, 1410, 223-236.	0.9	33
30	pRAD50: a novel and clinically applicable pharmacodynamic biomarker of both ATM and ATR inhibition identified using mass spectrometry and immunohistochemistry. <i>British Journal of Cancer</i> , 2018, 119, 1233-1243.	6.4	27
31	Multiomic analysis identifies CPT1A as a potential therapeutic target in platinum-refractory, high-grade serous ovarian cancer. <i>Cell Reports Medicine</i> , 2021, 2, 100471.	6.5	26
32	A Multiplexed Mass Spectrometry-Based Assay for Robust Quantification of Phosphosignaling in Response to DNA Damage. <i>Radiation Research</i> , 2018, 189, 505.	1.5	25
33	Quantification of Proteins Using Peptide Immunoaffinity Enrichment Coupled with Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	22
34	Targeted mass spectrometry enables robust quantification of FANCD2 mono-ubiquitination in response to DNA damage. <i>DNA Repair</i> , 2018, 65, 47-53.	2.8	18
35	Commercially available antibodies can be applied in quantitative multiplexed peptide immunoaffinity enrichment targeted mass spectrometry assays. <i>Proteomics</i> , 2016, 16, 2141-2145.	2.2	17
36	Peptide Immunoaffinity Enrichment with Targeted Mass Spectrometry: Application to Quantification of ATM Kinase Phospho-Signaling. <i>Methods in Molecular Biology</i> , 2017, 1599, 197-213.	0.9	15

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37	Targeted Mass Spectrometry Enables Multiplexed Quantification of Immunomodulatory Proteins in Clinical Biospecimens. <i>Frontiers in Immunology</i> , 2021, 12, 765898.	4.8	13
38	Internal Standard Triggered-Parallel Reaction Monitoring Mass Spectrometry Enables Multiplexed Quantification of Candidate Biomarkers in Plasma. <i>Analytical Chemistry</i> , 2022, 94, 9540-9547.	6.5	11
39	Targeted mass-spectrometry-based assays enable multiplex quantification of receptor tyrosine kinase, MAP kinase, and AKT signaling. <i>Cell Reports Methods</i> , 2021, 1, 100015.	2.9	10
40	Targeted Mass Spectrometry Enables Quantification of Novel Pharmacodynamic Biomarkers of ATM Kinase Inhibition. <i>Cancers</i> , 2021, 13, 3843.	3.7	7
41	A dataset describing a suite of novel antibody reagents for the RAS signaling network. <i>Scientific Data</i> , 2019, 6, 160.	5.3	4