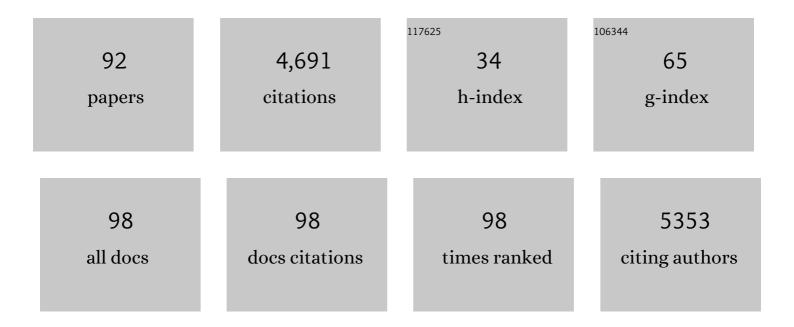
Michael R Shortreed

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fluorescent Fiber-Optic Calcium Sensor for Physiological Measurements. Analytical Chemistry, 1996, 68, 1414-1418.	6.5	605
2	Sirt3 Promotes the Urea Cycle and Fatty Acid Oxidation during Dietary Restriction. Molecular Cell, 2011, 41, 139-149.	9.7	344
3	Spectroscopic Evidence for Excitonic Localization in Fractal Antenna Supermolecules. Physical Review Letters, 1997, 78, 1239-1242.	7.8	295
4	Directed Energy Transfer Funnels in Dendrimeric Antenna Supermoleculesâ€. Journal of Physical Chemistry B, 1997, 101, 6318-6322.	2.6	279
5	Enhanced Global Post-translational Modification Discovery with MetaMorpheus. Journal of Proteome Research, 2018, 17, 1844-1851.	3.7	206
6	Identification and Quantification of Proteoforms by Mass Spectrometry. Proteomics, 2019, 19, e1800361.	2.2	147
7	Miniature Sodium-Selective Ion-Exchange Optode with Fluorescent pH Chromoionophores and Tunable Dynamic Range. Analytical Chemistry, 1996, 68, 2656-2662.	6.5	129
8	Real-Time Dynamics of Single-DNA Molecules Undergoing Adsorption and Desorption at Liquidâ ''Solid Interfaces. Analytical Chemistry, 2001, 73, 1091-1099.	6.5	118
9	Discovery and Mass Spectrometric Analysis of Novel Splice-junction Peptides Using RNA-Seq. Molecular and Cellular Proteomics, 2013, 12, 2341-2353.	3.8	115
10	O-Pair Search with MetaMorpheus for O-glycopeptide characterization. Nature Methods, 2020, 17, 1133-1138.	19.0	98
11	Proteogenomics: Integrating Next-Generation Sequencing and Mass Spectrometry to Characterize Human Proteomic Variation. Annual Review of Analytical Chemistry, 2016, 9, 521-545.	5.4	91
12	Analysis of Cell Surface Carbohydrate Expression Patterns in Normal and Tumorigenic Human Breast Cell Lines Using Lectin Arrays. Analytical Chemistry, 2007, 79, 5698-5702.	6.5	88
13	High-Throughput Single-Molecule Spectroscopy in Free Solution. Analytical Chemistry, 2000, 72, 4640-4645.	6.5	81
14	Large-Scale Mass Spectrometric Detection of Variant Peptides Resulting from Nonsynonymous Nucleotide Differences. Journal of Proteome Research, 2014, 13, 228-240.	3.7	81
15	α-Ketoisocaproate-induced hypersecretion of insulin by islets from diabetes-susceptible mice. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E218-E224.	3.5	78
16	High-Throughput Single-Molecule DNA Screening Based on Electrophoresis. Analytical Chemistry, 2000, 72, 2879-2885.	6.5	77
17	Global Post-Translational Modification Discovery. Journal of Proteome Research, 2017, 16, 1383-1390.	3.7	75
18	Using Galaxy-P to leverage RNA-Seq for the discovery of novel protein variations. BMC Genomics, 2014, 15, 703.	2.8	74

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19	Ultrafast Peptide Label-Free Quantification with FlashLFQ. Journal of Proteome Research, 2018, 17, 386-391.	3.7	74
20	Relative Quantification of Carboxylic Acid Metabolites by Liquid Chromatographyâ^'Mass Spectrometry Using Isotopic Variants of Cholamine. Analytical Chemistry, 2007, 79, 5143-5149.	6.5	71
21	Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 1783-1802.	2.8	67
22	Ionizable Isotopic Labeling Reagent for Relative Quantification of Amine Metabolites by Mass Spectrometry. Analytical Chemistry, 2006, 78, 6398-6403.	6.5	62
23	Carbon-on-Metal Films for Surface Plasmon Resonance Detection of DNA Arrays. Journal of the American Chemical Society, 2008, 130, 8611-8613.	13.7	60
24	A five-level classification system for proteoform identifications. Nature Methods, 2019, 16, 939-940.	19.0	55
25	Thermodynamically based DNA strand design. Nucleic Acids Research, 2005, 33, 4951-4964.	14.5	54
26	Development of a fluorescent optical potassium-selective ion sensor with ratiometric response for intracellular applications. Sensors and Actuators B: Chemical, 1997, 38, 8-12.	7.8	49
27	Specific Capture of Mammalian Cells by Cell Surface Receptor Binding to Ligand Immobilized on Gold Thin Films. Journal of Proteome Research, 2006, 5, 1580-1585.	3.7	46
28	Global Identification of Protein Post-translational Modifications in a Single-Pass Database Search. Journal of Proteome Research, 2015, 14, 4714-4720.	3.7	43
29	Elucidating Proteoform Families from Proteoform Intact-Mass and Lysine-Count Measurements. Journal of Proteome Research, 2016, 15, 1213-1221.	3.7	43
30	Proteoform Suite: Software for Constructing, Quantifying, and Visualizing Proteoform Families. Journal of Proteome Research, 2018, 17, 568-578.	3.7	40
31	Identification of MS-Cleavable and Noncleavable Chemically Cross-Linked Peptides with MetaMorpheus. Journal of Proteome Research, 2018, 17, 2370-2376.	3.7	40
32	In situ oligonucleotide synthesis on carbon materials: stable substrates for microarray fabrication. Nucleic Acids Research, 2007, 36, e7-e7.	14.5	39
33	Comment on "A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands― Science Immunology, 2019, 4, .	11.9	39
34	Utilization of Lipophilic Ionic Additives in Liquid Polymer Film Optodes for Selective Anion Activity Measurements. Analytical Chemistry, 1997, 69, 990-995.	6.5	38
35	A thermodynamic approach to designing structure-free combinatorial DNA word sets. Nucleic Acids Research, 2005, 33, 4965-4977.	14.5	36
36	Improved Protein Inference from Multiple Protease Bottom-Up Mass Spectrometry Data. Journal of Proteome Research, 2019, 18, 3429-3438.	3.7	36

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#	Article	IF	CITATIONS
37	Parallel Single Nucleotide Polymorphism Genotyping by Surface Invasive Cleavage with Universal Detection. Analytical Chemistry, 2005, 77, 2400-2405.	6.5	35
38	ProForma: A Standard Proteoform Notation. Journal of Proteome Research, 2018, 17, 1321-1325.	3.7	35
39	Enhanced protein isoform characterization through long-read proteogenomics. Genome Biology, 2022, 23, 69.	8.8	33
40	Elucidating <i>Escherichia coli</i> Proteoform Families Using Intact-Mass Proteomics and a Global PTM Discovery Database. Journal of Proteome Research, 2017, 16, 4156-4165.	3.7	32
41	Global Identification of Post-Translationally Spliced Peptides with Neo-Fusion. Journal of Proteome Research, 2018, 18, 349-358.	3.7	32
42	Sequence-Specific Capture of Protein-DNA Complexes for Mass Spectrometric Protein Identification. PLoS ONE, 2011, 6, e26217.	2.5	30
43	Structure-Specific DNA Cleavage on Surfaces. Journal of the American Chemical Society, 2002, 124, 7924-7931.	13.7	29
44	Human Proteomic Variation Revealed by Combining RNA-Seq Proteogenomics and Global Post-Translational Modification (G-PTM) Search Strategy. Journal of Proteome Research, 2016, 15, 800-808.	3.7	29
45	Expanding Proteoform Identifications in Top-Down Proteomic Analyses by Constructing Proteoform Families. Analytical Chemistry, 2018, 90, 1325-1333.	6.5	27
46	Improving Proteoform Identifications in Complex Systems Through Integration of Bottom-Up and Top-Down Data. Journal of Proteome Research, 2020, 19, 3510-3517.	3.7	25
47	Spritz: A Proteogenomic Database Engine. Journal of Proteome Research, 2021, 20, 1826-1834.	3.7	24
48	Single-molecule immunoassay and DNA diagnosis. Electrophoresis, 2001, 22, 421-426.	2.4	23
49	Identification and Quantification of Murine Mitochondrial Proteoforms Using an Integrated Top-Down and Intact-Mass Strategy. Journal of Proteome Research, 2018, 17, 3526-3536.	3.7	23
50	Discovery of Chromatin-Associated Proteins via Sequence-Specific Capture and Mass Spectrometric Protein Identification in <i>Saccharomyces cerevisiae</i> . Journal of Proteome Research, 2014, 13, 3810-3825.	3.7	21
51	Constructing Human Proteoform Families Using Intact-Mass and Top-Down Proteomics with a Multi-Protease Global Post-Translational Modification Discovery Database. Journal of Proteome Research, 2019, 18, 3671-3680.	3.7	21
52	Anion-selective liquid-polymer optodes with fluorescent pH chromoionophores, tunable dynamic range and diffusion enhanced lifetimes. Sensors and Actuators B: Chemical, 1996, 35, 217-221.	7.8	20
53	Surface Amplification of Invasive Cleavage Products. Journal of the American Chemical Society, 2004, 126, 3016-3017.	13.7	20
54	Compartmentalization of HP1 Proteins in Pluripotency Acquisition and Maintenance. Stem Cell Reports, 2018, 10, 627-641.	4.8	20

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55	Scoring Single-Nucleotide Polymorphisms at the Single-Molecule Level by Counting Individual DNA Cleavage Events on Surfaces. Analytical Chemistry, 2005, 77, 6594-6600.	6.5	19
56	Multiplexed Analysis of Cage and Cage Free Chicken Egg Fatty Acids Using Stable Isotope Labeling and Mass Spectrometry. Molecules, 2013, 18, 14977-14988.	3.8	17
57	Proteomics in non-human primates: utilizing RNA-Seq data to improve protein identification by mass spectrometry in vervet monkeys. BMC Genomics, 2017, 18, 877.	2.8	17
58	Quantitative Detection of Individual Cleaved DNA Molecules on Surfaces Using Gold Nanoparticles and Scanning Electron Microscope Imaging. Analytical Chemistry, 2006, 78, 1528-1534.	6.5	16
59	Aldehyde-Terminated Amorphous Carbon Substrates for the Fabrication of Biomolecule Arrays. Langmuir, 2008, 24, 9198-9203.	3.5	16
60	Parallel Detection of Intrinsic Fluorescence from Peptides and Proteins for Quantification during Mass Spectrometric Analysis. Analytical Chemistry, 2011, 83, 2187-2193.	6.5	16
61	Supermolecular Excitation Antenna: Ordered Energy Funnel. Molecular Crystals and Liquid Crystals, 1996, 283, 95-100.	0.3	15
62	Comprehensive in vivo identification of the c-Myc mRNA protein interactome using HyPR-MS. Rna, 2019, 25, 1337-1352.	3.5	15
63	Lifetime Enhancement of Ultrasmall Fluorescent Liquid Polymeric Film Based Optodes by Diffusion-Induced Self-Recovery after Photobleaching. Analytical Chemistry, 1996, 68, 4015-4019.	6.5	14
64	A surface invasive cleavage assay for highly parallel SNP analysis. Human Mutation, 2002, 19, 416-422.	2.5	12
65	HyCCAPP as a tool to characterize promoter DNA-protein interactions in Saccharomyces cerevisiae. Genomics, 2016, 107, 267-273.	2.9	12
66	Elucidating Protein–DNA Interactions in Human Alphoid Chromatin via Hybridization Capture and Mass Spectrometry. Journal of Proteome Research, 2017, 16, 3433-3442.	3.7	12
67	Proteomic pathways to metabolic disease and type 2 diabetes in the pancreatic islet. IScience, 2021, 24, 103099.	4.1	12
68	Intact-Mass Analysis Facilitating the Identification of Large Human Heart Proteoforms. Analytical Chemistry, 2019, 91, 10937-10942.	6.5	11
69	Comprehensive Detection of Single Amino Acid Variants and Evaluation of Their Deleterious Potential in a PANC-1 Cell Line. Journal of Proteome Research, 2020, 19, 1635-1646.	3.7	11
70	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
71	Molecular Beacon-Style Hybridization Assay for Quantitative Analysis of Surface Invasive Cleavage Reactions. Analytical Chemistry, 2007, 79, 6031-6036.	6.5	9
72	Back Cover: Identification and Quantification of Proteoforms by Mass Spectrometry. Proteomics, 2019, 19, 1970085.	2.2	9

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#	Article	IF	CITATIONS
73	Precursor Intensity-Based Label-Free Quantification Software Tools for Proteomic and Multi-Omic Analysis within the Galaxy Platform. Proteomes, 2020, 8, 15.	3.5	9
74	Multiplexed Programmable Release of Captured DNA. ChemBioChem, 2014, 15, 2353-2356.	2.6	8
75	Multiplexed Sequence-Specific Capture of Chromatin and Mass Spectrometric Discovery of Associated Proteins. Analytical Chemistry, 2017, 89, 7841-7846.	6.5	8
76	Construction of Human Proteoform Families from 21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Top-Down Proteomic Data. Journal of Proteome Research, 2021, 20, 317-325.	3.7	8
77	Long Noncoding RNAs AC009014.3 and Newly Discovered XPLAID Differentiate Aggressive and Indolent Prostate Cancers. Translational Oncology, 2018, 11, 808-814.	3.7	7
78	A Bayesian Null Interval Hypothesis Test Controls False Discovery Rates and Improves Sensitivity in Label-Free Quantitative Proteomics. Journal of Proteome Research, 2020, 19, 1975-1981.	3.7	7
79	Mesh Fragmentation Improves Dissociation Efficiency in Top-down Proteomics. Journal of the American Society for Mass Spectrometry, 2021, 32, 1319-1325.	2.8	7
80	Sirt3 Promotes the Urea Cycle and Fatty Acid Oxidation during Dietary Restriction. Molecular Cell, 2011, 41, 493.	9.7	6
81	Advanced methods for the analysis of chromatin-associated proteins. Physiological Genomics, 2014, 46, 441-447.	2.3	5
82	Revealing the Role of Phosphatidylserine in Shear Stress–Mediated Protection in Endothelial Cells. Endothelium: Journal of Endothelial Cell Research, 2008, 15, 225-230.	1.7	4
83	To understand the whole, you must know the parts: unraveling the roles of protein–DNA interactions in genome regulation. Analyst, The, 2011, 136, 3060.	3.5	4
84	Novel NMR and MS Approaches to Metabolomics. Methods in Pharmacology and Toxicology, 2012, , 199-230.	0.2	4
85	Dendrimeric Antenna Supermolecules with Multistep Directed Energy Transfer. , 1998, , 521-533.		4
86	<title>Anion selective optodes: development of a fluorescent fiber optic sensor for the determination of nitrite activity</title> . , 1996, , .		2
87	MetaNetwork Enhances Biological Insights from Quantitative Proteomics Differences by Combining Clustering and Enrichment Analyses. Journal of Proteome Research, 2022, 21, 410-419.	3.7	2
88	Discovery of Dehydroamino Acid Residues in the Capsid and Matrix Structural Proteins of HIV-1. Journal of Proteome Research, 2022, 21, 993-1001.	3.7	2
89	Molecular Nano-Lenses: Directed Energy Migration and Back-Transfer in Dendrimeric Antenna Supermolecules. Molecular Crystals and Liquid Crystals, 1998, 314, 37-46.	0.3	1
90	Binary Classifier for Computing Posterior Error Probabilities in MetaMorpheus. Journal of Proteome Research, 2021, 20, 1997-2004.	3.7	1

#	Article	IF	CITATIONS
91	<title>High-throughput single-molecule DNA screening based on electrophoresis</title> . , 2000, , .		Ο
92	Adaptation of Hybridization Capture of Chromatin-associated Proteins for Proteomics to Mammalian Cells. Journal of Visualized Experiments, 2018, , .	0.3	0