

# Richard W Vachet

## List of Publications by Year in descending order

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150  
papers

7,403  
citations

71102

41  
h-index

60623

81  
g-index

150  
all docs

150  
docs citations

150  
times ranked

8577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkanethiolate Gold Cluster Molecules with Core Diameters from 1.5 to 5.2 nm: Core and Monolayer Properties as a Function of Core Size. <i>Langmuir</i> , 1998, 14, 17-30.	3.5	1,750
2	Effect of Surface Charge on the Uptake and Distribution of Gold Nanoparticles in Four Plant Species. <i>Environmental Science &amp; Technology</i> , 2012, 46, 12391-12398.	10.0	332
3	The basics of mass spectrometry in the twenty-first century. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 140-150.	46.4	303
4	Probing protein structure by amino acid-specific covalent labeling and mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2009, 28, 785-815.	5.4	300
5	Surface Charge Controls the Suborgan Biodistributions of Gold Nanoparticles. <i>ACS Nano</i> , 2016, 10, 5536-5542.	14.6	185
6	Molecular analysis of chromium and cobalt-related toxicity. <i>Scientific Reports</i> , 2014, 4, 5729.	3.3	159
7	Multiplexed Screening of Cellular Uptake of Gold Nanoparticles Using Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2008, 130, 14139-14143.	13.7	126
8	Interaction between Oxide Nanoparticles and Biomolecules of the Bacterial Cell Envelope As Examined by Infrared Spectroscopy. <i>Langmuir</i> , 2010, 26, 18071-18077.	3.5	122
9	Stability of quantum dots in live cells. <i>Nature Chemistry</i> , 2011, 3, 963-968.	13.6	121
10	Novel Peptide Dissociation: Gas-Phase Intramolecular Rearrangement of Internal Amino Acid Residues. <i>Journal of the American Chemical Society</i> , 1997, 119, 5481-5488.	13.7	115
11	Surface Properties Dictate Uptake, Distribution, Excretion, and Toxicity of Nanoparticles in Fish. <i>Small</i> , 2010, 6, 2261-2265.	10.0	113
12	Antioxidant Mechanisms of Enzymatic Hydrolysates of $\beta$ -Lactoglobulin in Food Lipid Dispersions. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 9565-9572.	5.2	111
13	Protein Surface Mapping Using Diethylpyrocarbonate with Mass Spectrometric Detection. <i>Analytical Chemistry</i> , 2008, 80, 2895-2904.	6.5	105
14	Covalent labeling-mass spectrometry with non-specific reagents for studying protein structure and interactions. <i>Methods</i> , 2018, 144, 79-93.	3.8	81
15	Mixed Monolayer-Protected Gold Nanoclusters as Selective Peptide Extraction Agents for MALDI-MS Analysis. <i>Analytical Chemistry</i> , 2006, 78, 5491-5496.	6.5	79
16	Multiplexed Imaging of Nanoparticles in Tissues Using Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2013, 135, 12564-12567.	13.7	78
17	Ion-molecule reactions in a quadrupole ion trap as a probe of the gas-phase structure of metal complexes. <i>Journal of Mass Spectrometry</i> , 1998, 33, 1209-1225.	1.6	75
18	Intracellular Activation of Bioorthogonal Nanozymes through Endosomal Proteolysis of the Protein Corona. <i>ACS Nano</i> , 2020, 14, 4767-4773.	14.6	74

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19	Development of a Methodology Based on Metal-Catalyzed Oxidation Reactions and Mass Spectrometry To Determine the Metal Binding Sites in Copper Metalloproteins. <i>Analytical Chemistry</i> , 2003, 75, 1164-1172.	6.5	71
20	The Interplay of Monolayer Structure and Serum Protein Interactions on the Cellular Uptake of Gold Nanoparticles. <i>Small</i> , 2012, 8, 2659-2663.	10.0	71
21	Structure of the Preamyloid Dimer of $\beta^2$ -Microglobulin from Covalent Labeling and Mass Spectrometry. <i>Biochemistry</i> , 2010, 49, 1522-1532.	2.5	66
22	Origin of product ions in the MS/MS spectra of peptides in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 341-344.	2.8	65
23	Transition metal binding to cod otolith proteins. <i>Journal of Experimental Marine Biology and Ecology</i> , 2006, 329, 135-143.	1.5	64
24	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1025-1035.	3.7	62
25	Thermally Gated Bio-orthogonal Nanozymes with Supramolecularly Confined Porphyrin Catalysts for Antimicrobial Uses. <i>CheM</i> , 2020, 6, 1113-1124.	11.7	62
26	Secondary Interactions Affecting the Dissociation Patterns of Arginine-Containing Peptide Ions. <i>Journal of the American Chemical Society</i> , 1996, 118, 6252-6256.	13.7	61
27	Transition Metal~Peptide Binding Studied by Metal-Catalyzed Oxidation Reactions and Mass Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 2432-2438.	6.5	60
28	Gas-phase ion-molecule reactions of transition metal complexes: The effect of different coordination spheres on complex reactivity. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 813-825.	2.8	57
29	Metal-catalyzed oxidation reactions and mass spectrometry: The roles of ascorbate and different oxidizing agents in determining Cu~protein-binding sites. <i>Analytical Biochemistry</i> , 2005, 341, 122-130.	2.4	56
30	A comparison of the gas, solution, and solid state coordination environments for the copper(II) complexes of a series of aminopyridine ligands of varying coordination number. <i>Inorganica Chimica Acta</i> , 2003, 343, 119-132.	2.4	55
31	Engineered nanoparticle surfaces for improved mass spectrometric analyses. <i>Analyst</i> , 2009, 134, 2183.	3.5	52
32	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. <i>Analytica Chimica Acta</i> , 2013, 804, 84-91.	5.4	52
33	Exploring Salt Bridge Structures of Gas-Phase Protein Ions using Multiple Stages of Electron Transfer and Collision Induced Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 604-613.	2.8	51
34	Improved sequencing of oxidized cysteine and methionine containing peptides using electron transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1499-1506.	2.8	50
35	Gas-phase ion~molecule reactions of divalent metal complex ions: Toward coordination structure analysis by mass spectrometry and some intrinsic coordination chemistry along the way. <i>International Journal of Mass Spectrometry</i> , 2005, 244, 109-124.	1.5	49
36	Gas, solution, and solid state coordination environments for the nickel(II) complexes of a series of aminopyridine ligands of varying coordination number. <i>Inorganica Chimica Acta</i> , 2000, 297, 79-87.	2.4	48

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37	Structural Insights into the Pre-Amyloid Tetramer of $\beta$ 2-Microglobulin from Covalent Labeling and Mass Spectrometry. <i>Biochemistry</i> , 2011, 50, 6711-6722.	2.5	48
38	Quadrupole ion trap studies of the structure and reactivity of transition metal ion pair complexes. , 2000, 35, 311-320.		46
39	Using Mass Spectrometry To Study Copper-Protein Binding under Native and Non-Native Conditions: $\beta$ 2-Microglobulin. <i>Analytical Chemistry</i> , 2004, 76, 3498-3504.	6.5	45
40	Selective Peptide Binding Using Facially Amphiphilic Dendrimers. <i>Journal of the American Chemical Society</i> , 2008, 130, 11156-11163.	13.7	45
41	Copper Binding to $\beta$ 2-Microglobulin and Its Pre-Amyloid Oligomers. <i>Biochemistry</i> , 2009, 48, 9871-9881.	2.5	45
42	The use of static pressures of heavy gases within a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 1099-1109.	2.8	42
43	Laser desorption ionization mass spectrometric imaging of mass barcoded gold nanoparticles for security applications. <i>Chemical Communications</i> , 2012, 48, 4543.	4.1	42
44	Determination of the Intracellular Stability of Gold Nanoparticle Monolayers Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 4321-4326.	6.5	40
45	Effects of heavy gases on the tandem mass spectra of peptide ions in the quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 1194-1202.	2.8	38
46	Cu(II) organizes $\beta$ 2-microglobulin oligomers but is released upon amyloid formation. <i>Protein Science</i> , 2008, 17, 748-759.	7.6	38
47	Covalent Labeling with Diethylpyrocarbonate: Sensitive to the Residue Microenvironment, Providing Improved Analysis of Protein Higher Order Structure by Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 8516-8523.	6.5	38
48	Effect of Coordination Geometry on the Gas-Phase Reactivity of Four-Coordinate Divalent Metal Ion Complexes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1757-1763.	2.5	37
49	Dual-Mode Mass Spectrometric Imaging for Determination of <i>In Vivo</i> Stability of Nanoparticle Monolayers. <i>ACS Nano</i> , 2017, 11, 7424-7430.	14.6	36
50	Using metal-catalyzed oxidation reactions and mass spectrometry to identify amino acid residues within 10 Å... of the metal in Cu-binding proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1552-1559.	2.8	35
51	Increased Protein Structural Resolution from Diethylpyrocarbonate-based Covalent Labeling and Mass Spectrometric Detection. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 708-717.	2.8	35
52	The Role of Surface Functionality in Nanoparticle Exocytosis. <i>Advanced Healthcare Materials</i> , 2014, 3, 1200-1202.	7.6	35
53	Investigating Therapeutic Protein Structure with Diethylpyrocarbonate Labeling and Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 10627-10634.	6.5	35
54	Quantitative imaging of 2 nm monolayer-protected gold nanoparticle distributions in tissues using laser ablation inductively-coupled plasma mass spectrometry (LA-ICP-MS). <i>Analyst</i> , The, 2016, 141, 2418-2425.	3.5	35

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55	Constraints on Anaerobic Respiration in the Hyperthermophilic Archaea <i>Pyrobaculum islandicum</i> and <i>Pyrobaculum aerophilum</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 396-402.	3.1	34
56	Diethylpyrocarbonate Labeling for the Structural Analysis of Proteins: Label Scrambling in Solution and How to Avoid It. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 899-907.	2.8	34
57	Using Covalent Labeling and Mass Spectrometry To Study Protein Binding Sites of Amyloid Inhibiting Molecules. <i>Analytical Chemistry</i> , 2017, 89, 11583-11591.	6.5	34
58	Quantitative Differentiation of Cell Surface-Bound and Internalized Cationic Gold Nanoparticles Using Mass Spectrometry. <i>ACS Nano</i> , 2016, 10, 6731-6736.	14.6	33
59	Enhanced Laser Desorption/Ionization Mass Spectrometric Detection of Biomolecules Using Gold Nanoparticles, Matrix, and the Coffee Ring Effect. <i>Analytical Chemistry</i> , 2017, 89, 3009-3014.	6.5	32
60	In Vivo Editing of Macrophages through Systemic Delivery of CRISPR-Cas9-Ribonucleoprotein Nanoparticle Nanoassemblies. <i>Advanced Therapeutics</i> , 2019, 2, 1900041.	3.2	32
61	Inkjet-Printed Gold Nanoparticle Surfaces for the Detection of Low Molecular Weight Biomolecules by Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1931-1937.	2.8	31
62	Polymeric Inverse Micelles as Selective Peptide Extraction Agents for MALDI-MS Analysis. <i>Analytical Chemistry</i> , 2007, 79, 7124-7130.	6.5	30
63	Engineering of a 129-residue tripod protein by chemoselective ligation of proline-II helices. <i>Tetrahedron</i> , 1995, 51, 9859-9872.	1.9	29
64	Using Microwave-Assisted Metal-Catalyzed Oxidation Reactions and Mass Spectrometry To Increase the Rate at Which the Copper-Binding Sites of a Protein Are Determined. <i>Analytical Chemistry</i> , 2005, 77, 4649-4653.	6.5	29
65	A programmable chemical switch based on triggerable Michael acceptors. <i>Chemical Science</i> , 2020, 11, 2103-2111.	7.4	29
66	The effect of histidine oxidation on the dissociation patterns of peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 553-562.	2.8	27
67	Matrix Metalloproteinase-9-Responsive Nanogels for Proximal Surface Conversion and Activated Cellular Uptake. <i>Biomacromolecules</i> , 2018, 19, 860-871.	5.4	27
68	Rod-shape theranostic nanoparticles facilitate antiretroviral drug biodistribution and activity in human immunodeficiency virus susceptible cells and tissues. <i>Theranostics</i> , 2020, 10, 630-656.	10.0	27
69	Tandem mass spectrometry of Cu(II) complexes: the effects of ligand donor group on dissociation. <i>Journal of Mass Spectrometry</i> , 2003, 38, 333-342.	1.6	26
70	Characterization of Cu(II)-binding ligands from the Chesapeake Bay using high-performance size-exclusion chromatography and mass spectrometry. <i>Marine Chemistry</i> , 2003, 82, 31-45.	2.3	26
71	Correlation of Kinetic Energy Losses in High-Energy Collision-Induced Dissociation with Observed Peptide Product Ions. <i>Analytical Chemistry</i> , 1996, 68, 522-526.	6.5	25
72	Boundary-Activated Dissociation of Peptide Ions in a Quadrupole Ion Trap. <i>Analytical Chemistry</i> , 1998, 70, 340-346.	6.5	25

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73	Correct identification of oxidized histidine residues using electron transfer dissociation. <i>Journal of Mass Spectrometry</i> , 2009, 44, 755-762.	1.6	25
74	Characterization of surface ligands on functionalized magnetic nanoparticles using laser desorption/ionization mass spectrometry (LDI-MS). <i>Nanoscale</i> , 2013, 5, 5063.	5.6	25
75	Supramolecular Assemblies for Transporting Proteins Across an Immiscible Solvent Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 2421-2425.	13.7	25
76	A comparison of the gas, solution, and solid state coordination environments for the Cu(II) complexes of a series of linear aminopyridine ligands with varying ratios of 5- and 6-membered chelate rings. <i>Inorganica Chimica Acta</i> , 2004, 357, 1141-1151.	2.4	24
77	Multiplexed MS/MS in a Quadrupole Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2004, 76, 7346-7353.	6.5	24
78	A layer-by-layer assembled MoS <sub>2</sub> thin film as an efficient platform for laser desorption/ionization mass spectrometry analysis of small molecules. <i>Nanoscale</i> , 2017, 9, 10854-10860.	5.6	24
79	Synergistic Structural Information from Covalent Labeling and Hydrogen Deuterium Exchange Mass Spectrometry for Protein-Ligand Interactions. <i>Analytical Chemistry</i> , 2019, 91, 15248-15254.	6.5	22
80	Selective Enrichment and Analysis of Acidic Peptides and Proteins Using Polymeric Reverse Micelles and MALDI-MS. <i>Analytical Chemistry</i> , 2010, 82, 8686-8691.	6.5	21
81	Covalent labeling and mass spectrometry reveal subtle higher order structural changes for antibody therapeutics. <i>MAbs</i> , 2019, 11, 463-476.	5.2	21
82	Covalent Labeling with Isotopically Encoded Reagents for Faster Structural Analysis of Proteins by Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 9664-9670.	6.5	20
83	Unique Effect of Cu(II) in the Metal-Induced Amyloid Formation of $\beta$ -2-Microglobulin. <i>Biochemistry</i> , 2014, 53, 1263-1274.	2.5	20
84	Utilization of Hydrophobic Microenvironment Sensitivity in Diethylpyrocarbonate Labeling for Protein Structure Prediction. <i>Analytical Chemistry</i> , 2021, 93, 8188-8195.	6.5	20
85	The utility of ion-molecule reactions in a quadrupole ion trap mass spectrometer for analyzing metal complex coordination structure. <i>Analytica Chimica Acta</i> , 2003, 496, 233-248.	5.4	19
86	Mass Spectrometric Detection of Nanoparticle Host-Guest Interactions in Cells. <i>Analytical Chemistry</i> , 2014, 86, 6710-6714.	6.5	19
87	Electrostatic Control of Peptide Side-Chain Reactivity Using Amphiphilic Homopolymer-Based Supramolecular Assemblies. <i>Journal of the American Chemical Society</i> , 2013, 135, 14179-14188.	13.7	18
88	Self-assembly of random co-polymers for selective binding and detection of peptides. <i>Polymer Chemistry</i> , 2018, 9, 1066-1071.	3.9	18
89	A comparison of the gas, solution, and solid state coordination environments for the Ni(II) complexes of a series of linear penta- and hexadentate aminopyridine ligands with accessible Ni(III) oxidation states. <i>Inorganica Chimica Acta</i> , 2004, 357, 51-58.	2.4	17
90	Are Gas-Phase Reactions of Five-Coordinate Divalent Metal Ion Complexes Affected by Coordination Geometry?. <i>Inorganic Chemistry</i> , 2004, 43, 2745-2753.	4.0	17

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91	Sequential nucleophilic "click" reactions for functional amphiphilic homopolymers. <i>Polymer Chemistry</i> , 2019, 10, 187-193.	3.9	17
92	Reconstruction, analysis, and segmentation of LA-ICP-MS imaging data using Python for the identification of sub-organ regions in tissues. <i>Analyst, The</i> , 2020, 145, 3705-3712.	3.5	17
93	Gas-phase reactions of divalent Ni complex ions with acetonitrile: Chelate ring size, inductive, and steric effects. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1128-1135.	2.8	16
94	Kinetics of Protein Complex Dissociation Studied by Hydrogen/Deuterium Exchange and Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11777-11783.	6.5	16
95	Amphiphilic nanoassemblies for the detection of peptides and proteins using fluorescence and mass spectrometry. <i>Analyst, The</i> , 2009, 134, 635.	3.5	15
96	Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Signal Enhancement of Peptides after Selective Extraction with Polymeric Reverse Micelles. <i>Analytical Chemistry</i> , 2010, 82, 3686-3691.	6.5	15
97	Increased $\beta$ -Sheet Dynamics and $\alpha$ -E Loop Repositioning Are Necessary for Cu(II)-Induced Amyloid Formation by $\beta$ -2-Microglobulin. <i>Biochemistry</i> , 2017, 56, 1095-1104.	2.5	15
98	Gradient and Patterned Protein Films Stabilized via Nanoimprint Lithography for Engineered Interactions with Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42-46.	8.0	15
99	Enhanced Laser Desorption/Ionization Mass Spectrometric Detection of Gold Nanoparticles in Biological Samples Using the Synergy between Added Matrix and the Gold Core. <i>Analytical Chemistry</i> , 2015, 87, 12145-12150.	6.5	14
100	Small molecule-mediated inhibition of $\beta$ -2-microglobulin-based amyloid fibril formation. <i>Journal of Biological Chemistry</i> , 2017, 292, 10630-10638.	3.4	14
101	Dual Mass Spectrometric Tissue Imaging of Nanocarrier Distributions and Their Biochemical Effects. <i>Analytical Chemistry</i> , 2020, 92, 2011-2018.	6.5	14
102	Higher-Order Structure Influences the Kinetics of Diethylpyrocarbonate Covalent Labeling of Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 658-665.	2.8	14
103	Generating Peptide Titration-Type Curves Using Polymeric Reverse Micelles As Selective Extraction Agents along with Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Detection. <i>Analytical Chemistry</i> , 2009, 81, 5046-5053.	6.5	13
104	Label Scrambling During CID of Covalently Labeled Peptide Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1739-1746.	2.8	13
105	Gas-phase protein salt bridge stabilities from collisional activation and electron transfer dissociation. <i>International Journal of Mass Spectrometry</i> , 2017, 420, 51-56.	1.5	13
106	Covalent Labeling/Mass Spectrometry of Monoclonal Antibodies with Diethylpyrocarbonate: Reaction Kinetics for Ensuring Protein Structural Integrity. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1223-1232.	2.8	13
107	Identifying Zn-Bound Histidine Residues in Metalloproteins Using Hydrogen-Deuterium Exchange Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 766-773.	6.5	12
108	Multiplexed MS/MS in a Miniature Rectilinear Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 683-688.	2.8	10

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109	Using Metal Complex Ion-Molecule Reactions in a Miniature Rectilinear Ion Trap Mass Spectrometer to Detect Chemical Warfare Agents. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 917-925.	2.8	10
110	MEMBRANE PROTEIN STRUCTURES AND INTERACTIONS FROM COVALENT LABELING COUPLED WITH MASS SPECTROMETRY. <i>Mass Spectrometry Reviews</i> , 2022, 41, 51-69.	5.4	10
111	Complementary Structural Information for Stressed Antibodies from Hydrogen-Deuterium Exchange and Covalent Labeling Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1237-1248.	2.8	10
112	Enhanced and Selective MALDI-MS Detection of Peptides via the Nanomaterial-Dependent Coffee Ring Effect. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1780-1788.	2.8	10
113	Application of external customized waveforms to a commercial quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 355-359.	2.8	9
114	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on bacterial membrane amphiphilic biomolecules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 292-299.	5.0	9
115	Protein-Ligand Affinity Determinations Using Covalent Labeling-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1544-1553.	2.8	9
116	Epitope Mapping with Diethylpyrocarbonate Covalent Labeling-Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 1052-1059.	6.5	9
117	New method to study the effects of peptide sequence on the dissociation energetics of peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 175-177.	2.8	8
118	Influence of Charge Density on Host-Guest Interactions within Amphiphilic Polymer Assemblies in Apolar Media. <i>Macromolecules</i> , 2017, 50, 9734-9741.	4.8	8
119	Molecular Features Influencing the Release of Peptides from Amphiphilic Polymeric Reverse Micelles. <i>Langmuir</i> , 2018, 34, 4595-4602.	3.5	8
120	Lipogels for Encapsulation of Hydrophilic Proteins and Hydrophobic Small Molecules. <i>Biomacromolecules</i> , 2018, 19, 132-140.	5.4	8
121	Matrix-Incorporated Polydopamine Layer as a Simple, Efficient, and Universal Coating for Laser Desorption/Ionization Time-of-Flight Mass Spectrometric Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36361-36368.	8.0	8
122	Accounting for Neighboring Residue Hydrophobicity in Diethylpyrocarbonate Labeling Mass Spectrometry Improves Rosetta Protein Structure Prediction. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 584-591.	2.8	8
123	Polymer-mediated ternary supramolecular interactions for sensitive detection of peptides. <i>Analyst</i> , 2017, 142, 118-122.	3.5	7
124	Complementary Structural Information for Antibody-Antigen Complexes from Hydrogen-Deuterium Exchange and Covalent Labeling Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1303-1314.	2.8	7
125	Strategy for Pulsed Ionization Methods on a Sector Mass Spectrometer. <i>Analytical Chemistry</i> , 1996, 68, 845-849.	6.5	6
126	STEP (Statistical Test of Equivalent Pathways) Analysis: A Mass Spectrometric Method for Carbohydrates and Peptides. <i>Analytical Chemistry</i> , 2005, 77, 5886-5893.	6.5	6

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127	More than a picture. <i>Nature Nanotechnology</i> , 2015, 10, 103-104.	31.5	6
128	Improved mass spectrometric detection of acidic peptides by variations in the functional group $pK_a$ values of reverse micelle extraction agents. <i>Analyst</i> , 2018, 143, 1434-1443.	3.5	6
129	Supramolecular Polymeric Assemblies for the Selective Depletion of Abundant Acidic Proteins in Serum. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40443-40451.	8.0	6
130	Efficient enrichment of glycopeptides by supramolecular nanoassemblies that use proximity-assisted covalent binding. <i>Analyst</i> , 2019, 144, 6321-6326.	3.5	6
131	Structural Heterogeneity in the Preamyloid Oligomers of $\beta$ -2-Microglobulin. <i>Journal of Molecular Biology</i> , 2020, 432, 396-409.	4.2	6
132	Polymeric nanoassemblies for enrichment and detection of peptides and proteins in human breast milk. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1027-1035.	3.7	6
133	The Cleavage Profile of Protein Substrates by ClpXP Reveals Deliberate Starts and Pauses. <i>Biochemistry</i> , 2020, 59, 4294-4301.	2.5	6
134	Covalent Labeling with an $\alpha,\beta$ -Unsaturated Carbonyl Scaffold for Studying Protein Structure and Interactions by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6637-6644.	6.5	6
135	Nanodelivery vehicles induce remote biochemical changes in vivo. <i>Nanoscale</i> , 2021, 13, 12623-12633.	5.6	6
136	LA-ICP-MS and MALDI-MS image registration for correlating nanomaterial biodistributions and their biochemical effects. <i>Analyst</i> , 2021, 146, 7720-7729.	3.5	6
137	Facile synthesis of cationic gold nanoparticles with controlled size and surface plasmon resonance. <i>RSC Advances</i> , 2016, 6, 92007-92010.	3.6	5
138	Altering the Peptide Binding Selectivity of Polymeric Reverse Micelle Assemblies via Metal Ion Loading. <i>Langmuir</i> , 2017, 33, 14004-14010.	3.5	5
139	Measuring the Energy Barrier of the Structural Change That Initiates Amyloid Formation. <i>Analytical Chemistry</i> , 2020, 92, 4731-4735.	6.5	4
140	Epigallocatechin-3-gallate Inhibits Cu(II)-Induced $\beta$ -2-Microglobulin Amyloid Formation by Binding to the Edge of Its $\beta$ -Sheets. <i>Biochemistry</i> , 2020, 59, 1093-1103.	2.5	4
141	Distinguishing Histidine Tautomers in Proteins Using Covalent Labeling-Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 1003-1010.	6.5	4
142	Multiplexed Analysis of the Cellular Uptake of Polymeric Nanocarriers. <i>Analytical Chemistry</i> , 2022, 94, 7901-7908.	6.5	3
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