

# Richard W Vachet

## List of Publications by Citations

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143  
papers

6,178  
citations

39  
h-index

75  
g-index

150  
ext. papers

6,848  
ext. citations

6.9  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
143	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> , <b>1998</b> , 14, 17-30	4	1636
142	Probing protein structure by amino acid-specific covalent labeling and mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>2009</b> , 28, 785-815	11	251
141	Effect of surface charge on the uptake and distribution of gold nanoparticles in four plant species. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 12391-8	10.3	245
140	The basics of mass spectrometry in the twenty-first century. <i>Nature Reviews Drug Discovery</i> , <b>2003</b> , 2, 140-50	64.1	232
139	Surface Charge Controls the Suborgan Biodistributions of Gold Nanoparticles. <i>ACS Nano</i> , <b>2016</b> , 10, 5536-427	12.7	132
138	Novel Peptide Dissociation: Gas-Phase Intramolecular Rearrangement of Internal Amino Acid Residues. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5481-5488	16.4	111
137	Stability of quantum dots in live cells. <i>Nature Chemistry</i> , <b>2011</b> , 3, 963-8	17.6	107
136	Multiplexed screening of cellular uptake of gold nanoparticles using laser desorption/ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14139-43	16.4	107
135	Molecular analysis of chromium and cobalt-related toxicity. <i>Scientific Reports</i> , <b>2014</b> , 4, 5729	4.9	101
134	Surface properties dictate uptake, distribution, excretion, and toxicity of nanoparticles in fish. <i>Small</i> , <b>2010</b> , 6, 2261-5	11	100
133	Antioxidant mechanisms of enzymatic hydrolysates of beta-lactoglobulin in food lipid dispersions. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 9565-72	5.7	98
132	Interaction between oxide nanoparticles and biomolecules of the bacterial cell envelope as examined by infrared spectroscopy. <i>Langmuir</i> , <b>2010</b> , 26, 18071-7	4	96
131	Protein surface mapping using diethylpyrocarbonate with mass spectrometric detection. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2895-904	7.8	86
130	Mixed monolayer-protected gold nanoclusters as selective peptide extraction agents for MALDI-MS analysis. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 5491-6	7.8	75
129	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> , <b>1998</b> , 33, 1209-1225	2.2	74
128	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> , <b>2003</b> , 75, 1164-72	7.8	68
127	Multiplexed imaging of nanoparticles in tissues using laser desorption/ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12564-7	16.4	64

126	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> , <b>1998</b> , 9, 341-4	3.5	64
125	Secondary Interactions Affecting the Dissociation Patterns of Arginine-Containing Peptide Ions. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 6252-6256	16.4	61
124	The interplay of monolayer structure and serum protein interactions on the cellular uptake of gold nanoparticles. <i>Small</i> , <b>2012</b> , 8, 2659-63	11	60
123	Transition metal-peptide binding studied by metal-catalyzed oxidation reactions and mass spectrometry. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2432-8	7.8	58
122	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> , <b>2002</b> , 13, 813-25	3.5	56
121	Structure of the preamyloid dimer of beta-2-microglobulin from covalent labeling and mass spectrometry. <i>Biochemistry</i> , <b>2010</b> , 49, 1522-32	3.2	55
120	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> , <b>2005</b> , 341, 122-30	3.1	54
119	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 1025-35	4.4	53
118	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> , <b>2003</b> , 343, 119-132	2.7	52
117	Engineered nanoparticle surfaces for improved mass spectrometric analyses. <i>Analyst, The</i> , <b>2009</b> , 134, 2183-8	5	50
116	Covalent labeling-mass spectrometry with non-specific reagents for studying protein structure and interactions. <i>Methods</i> , <b>2018</b> , 144, 79-93	4.6	49
115	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> , <b>2014</b> , 25, 604-13	3.5	47
114	Graphene-loaded nanofiber-modified electrodes for the ultrasensitive determination of dopamine. <i>Analytica Chimica Acta</i> , <b>2013</b> , 804, 84-91	6.6	47
113	Transition metal binding to cod otolith proteins. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2006</b> , 329, 135-143	2.1	47
112	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> , <b>2005</b> , 244, 109-124	1.9	47
111	Improved sequencing of oxidized cysteine and methionine containing peptides using electron transfer dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 1499-506	3.5	46
110	Selective peptide binding using facially amphiphilic dendrimers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11156-63	16.4	45
109	Quadrupole ion trap studies of the structure and reactivity of transition metal ion pair complexes. <i>Journal of Mass Spectrometry</i> , <b>2000</b> , 35, 311-20	2.2	44

108	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> , <b>2000</b> , 297, 79-87	2.7	44
107	Copper binding to beta-2-microglobulin and its pre-amyloid oligomers. <i>Biochemistry</i> , <b>2009</b> , 48, 9871-81	3.2	42
106	Structural insights into the pre-amyloid tetramer of $\beta$ 2-microglobulin from covalent labeling and mass spectrometry. <i>Biochemistry</i> , <b>2011</b> , 50, 6711-22	3.2	41
105	Using mass spectrometry to study copper-protein binding under native and non-native conditions: beta-2-microglobulin. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 3498-504	7.8	41
104	Laser desorption ionization mass spectrometric imaging of mass barcoded gold nanoparticles for security applications. <i>Chemical Communications</i> , <b>2012</b> , 48, 4543-5	5.8	37
103	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> , <b>1996</b> , 7, 1194-202	3.5	37
102	The use of static pressures of heavy gases within a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2003</b> , 14, 1099-109	3.5	36
101	Determination of the intracellular stability of gold nanoparticle monolayers using mass spectrometry. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4321-6	7.8	35
100	Cu(II) organizes beta-2-microglobulin oligomers but is released upon amyloid formation. <i>Protein Science</i> , <b>2008</b> , 17, 748-59	6.3	35
99	Effect of Coordination Geometry on the Gas-Phase Reactivity of Four-Coordinate Divalent Metal Ion Complexes. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1757-1763	2.8	34
98	Increased protein structural resolution from diethylpyrocarbonate-based covalent labeling and mass spectrometric detection. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2012</b> , 23, 708-17	3.5	31
97	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> , <b>2006</b> , 17, 1552-9	3.5	31
96	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, The</i> , <b>2016</b> , 141, 2418-25	5.5	30
95	Intracellular Activation of Bioorthogonal Nanozymes through Endosomal Proteolysis of the Protein Corona. <i>ACS Nano</i> , <b>2020</b> , 14, 4767-4773	16.7	28
94	Thermally Gated Bio-orthogonal Nanozymes with Supramolecularly Confined Porphyrin Catalysts for Antimicrobial Uses. <i>Chem</i> , <b>2020</b> , 6, 1113-1124	16.2	28
93	Polymeric inverse micelles as selective peptide extraction agents for MALDI-MS analysis. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 7124-30	7.8	28
92	Quantitative Differentiation of Cell Surface-Bound and Internalized Cationic Gold Nanoparticles Using Mass Spectrometry. <i>ACS Nano</i> , <b>2016</b> , 10, 6731-6	16.7	27
91	The role of surface functionality in nanoparticle exocytosis. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1200-1202	12.27	

90	Constraints on anaerobic respiration in the hyperthermophilic Archaea <i>Pyrobaculum islandicum</i> and <i>Pyrobaculum aerophilum</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 396-402	4.8	27
89	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> , <b>2005</b> , 77, 4649-53	7.8	27
88	Enhanced Laser Desorption/Ionization Mass Spectrometric Detection of Biomolecules Using Gold Nanoparticles, Matrix, and the Coffee Ring Effect. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3009-3014	7.8	26
87	Dual-Mode Mass Spectrometric Imaging for Determination of in Vivo Stability of Nanoparticle Monolayers. <i>ACS Nano</i> , <b>2017</b> , 11, 7424-7430	16.7	26
86	Engineering of a 129-residue tripod protein by chemoselective ligation of proline-II helices. <i>Tetrahedron</i> , <b>1995</b> , 51, 9859-9872	2.4	26
85	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> , <b>2015</b> , 26, 1931-7	3.5	25
84	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> , <b>2012</b> , 23, 899-907	3.5	25
83	Tandem mass spectrometry of Cu(II) complexes: the effects of ligand donor group on dissociation. <i>Journal of Mass Spectrometry</i> , <b>2003</b> , 38, 333-42	2.2	25
82	Using Covalent Labeling and Mass Spectrometry To Study Protein Binding Sites of Amyloid Inhibiting Molecules. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11583-11591	7.8	24
81	Characterization of Cu(II)-binding ligands from the Chesapeake Bay using high-performance size-exclusion chromatography and mass spectrometry. <i>Marine Chemistry</i> , <b>2003</b> , 82, 31-45	3.7	24
80	Boundary-activated dissociation of peptide ions in a quadrupole ion trap. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 340-6	7.8	24
79	Covalent Labeling with Diethylpyrocarbonate: Sensitive to the Residue Microenvironment, Providing Improved Analysis of Protein Higher Order Structure by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8516-8523	7.8	23
78	Investigating Therapeutic Protein Structure with Diethylpyrocarbonate Labeling and Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10627-34	7.8	23
77	The effect of histidine oxidation on the dissociation patterns of peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 553-62	3.5	23
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> , <b>2004</b> , 357, 1141-1151	2.7	23
75	Multiplexed MS/MS in a quadrupole ion trap mass spectrometer. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7346-53	7.8	23
74	Correlation of kinetic energy losses in high-energy collision-induced dissociation with observed peptide product ions. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 522-6	7.8	23
73	Matrix Metalloproteinase-9-Responsive Nanogels for Proximal Surface Conversion and Activated Cellular Uptake. <i>Biomacromolecules</i> , <b>2018</b> , 19, 860-871	6.9	22

72	Characterization of surface ligands on functionalized magnetic nanoparticles using laser desorption/ionization mass spectrometry (LDI-MS). <i>Nanoscale</i> , <b>2013</b> , 5, 5063-6	7.7	21
71	A layer-by-layer assembled MoS thin film as an efficient platform for laser desorption/ionization mass spectrometry analysis of small molecules. <i>Nanoscale</i> , <b>2017</b> , 9, 10854-10860	7.7	19
70	Correct identification of oxidized histidine residues using electron-transfer dissociation. <i>Journal of Mass Spectrometry</i> , <b>2009</b> , 44, 755-62	2.2	19
69	Selective enrichment and analysis of acidic peptides and proteins using polymeric reverse micelles and MALDI-MS. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8686-91	7.8	18
68	The utility of ion-molecule reactions in a quadrupole ion trap mass spectrometer for analyzing metal complex coordination structure. <i>Analytica Chimica Acta</i> , <b>2003</b> , 496, 233-248	6.6	18
67	Rod-shape theranostic nanoparticles facilitate antiretroviral drug biodistribution and activity in human immunodeficiency virus susceptible cells and tissues. <i>Theranostics</i> , <b>2020</b> , 10, 630-656	12.1	18
66	Covalent labeling with isotopically encoded reagents for faster structural analysis of proteins by mass spectrometry. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9664-70	7.8	17
65	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> , <b>2004</b> , 357, 51-58	2.7	17
64	In Vivo Editing of Macrophages through Systemic Delivery of CRISPR-Cas9-Ribonucleoprotein-Nanoparticle Nanoassemblies. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1900041-9	14.9	16
63	Are gas-phase reactions of five-coordinate divalent metal ion complexes affected by coordination geometry?. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 2745-53	5.1	16
62	Supramolecular Assemblies for Transporting Proteins Across an Immiscible Solvent Interface. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2421-2425	16.4	15
61	Self-assembly of random co-polymers for selective binding and detection of peptides. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 1066-1071	4.9	15
60	Unique effect of Cu(II) in the metal-induced amyloid formation of $\beta$ 2-microglobulin. <i>Biochemistry</i> , <b>2014</b> , 53, 1263-74	3.2	15
59	Electrostatic control of peptide side-chain reactivity using amphiphilic homopolymer-based supramolecular assemblies. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14179-88	16.4	15
58	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> , <b>2004</b> , 15, 1128-1135	3.5	15
57	Gradient and Patterned Protein Films Stabilized via Nanoimprint Lithography for Engineered Interactions with Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42-46	9.5	14
56	Matrix-assisted laser desorption ionization-mass spectrometry signal enhancement of peptides after selective extraction with polymeric reverse micelles. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3686-91	7.8	14
55	Kinetics of Protein Complex Dissociation Studied by Hydrogen/Deuterium Exchange and Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11777-83	7.8	13

54	Mass spectrometric detection of nanoparticle host-guest interactions in cells. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6710-4	7.8	13
53	Amphiphilic nanoassemblies for the detection of peptides and proteins using fluorescence and mass spectrometry. <i>Analyst, The</i> , <b>2009</b> , 134, 635-49	5	13
52	Sequential Nucleophilic "Click" Reactions for Functional Amphiphilic Homopolymers. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 187-193	4.9	12
51	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> , <b>2009</b> , 81, 5046-53	7.8	12
50	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> , <b>2020</b> , 145, 3705-3712	5	11
49	Synergistic Structural Information from Covalent Labeling and Hydrogen-Deuterium Exchange Mass Spectrometry for Protein-Ligand Interactions. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15248-15254	7.8	11
48	Identifying Zn-bound histidine residues in metalloproteins using hydrogen-deuterium exchange mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 766-73	7.8	11
47	Gas-Phase Protein Salt Bridge Stabilities from Collisional Activation and Electron Transfer Dissociation. <i>International Journal of Mass Spectrometry</i> , <b>2017</b> , 420, 51-56	1.9	11
46	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> , <b>2015</b> , 87, 12145-50	7.8	11
45	Dual Mass Spectrometric Tissue Imaging of Nanocarrier Distributions and Their Biochemical Effects. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2011-2018	7.8	11
44	Increased $\beta$ -Sheet Dynamics and D-E Loop Repositioning Are Necessary for Cu(II)-Induced Amyloid Formation by $\beta$ -Microglobulin. <i>Biochemistry</i> , <b>2017</b> , 56, 1095-1104	3.2	10
43	Small molecule-mediated inhibition of $\beta$ -microglobulin-based amyloid fibril formation. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 10630-10638	5.4	10
42	Covalent labeling and mass spectrometry reveal subtle higher order structural changes for antibody therapeutics. <i>MABs</i> , <b>2019</b> , 11, 463-476	6.6	10
41	Label scrambling during CID of covalently labeled peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1739-46	3.5	9
40	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> , <b>2013</b> , 24, 917-925	3.5	9
39	Multiplexed MS/MS in a miniature rectilinear ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 683-8	3.5	9
38	Application of external customized waveforms to a commercial quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1999</b> , 10, 355-359	3.5	9
37	Molecular Features Influencing the Release of Peptides from Amphiphilic Polymeric Reverse Micelles. <i>Langmuir</i> , <b>2018</b> , 34, 4595-4602	4	8

36	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on bacterial membrane amphiphilic biomolecules. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 102, 292-9	6	8
35	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> , <b>1998</b> , 9, 175-7	3.5	8
34	A programmable chemical switch based on triggerable Michael acceptors. <i>Chemical Science</i> , <b>2020</b> , 11, 2103-2111	9.4	8
33	Lipogels for Encapsulation of Hydrophilic Proteins and Hydrophobic Small Molecules. <i>Biomacromolecules</i> , <b>2018</b> , 19, 132-140	6.9	7
32	Improved mass spectrometric detection of acidic peptides by variations in the functional group pK values of reverse micelle extraction agents. <i>Analyst, The</i> , <b>2018</b> , 143, 1434-1443	5	6
31	Influence of Charge Density on Host-Guest Interactions within Amphiphilic Polymer Assemblies in Apolar Media. <i>Macromolecules</i> , <b>2017</b> , 50, 9734-9741	5.5	6
30	Polymer-mediated ternary supramolecular interactions for sensitive detection of peptides. <i>Analyst, The</i> , <b>2016</b> , 142, 118-122	5	6
29	Molecular histology: More than a picture. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 103-4	28.7	6
28	Strategy for pulsed ionization methods on a sector mass spectrometer. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 845-9	7.8	6
27	STEP (Statistical Test of Equivalent Pathways) analysis: a mass spectrometric method for carbohydrates and peptides. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 5886-93	7.8	5
26	Structural Heterogeneity in the Preamyloid Oligomers of $\beta$ -Microglobulin. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 396-409	6.5	5
25	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> , <b>2018</b> , 10, 36361-36368	9.5	5
24	MEMBRANE PROTEIN STRUCTURES AND INTERACTIONS FROM COVALENT LABELING COUPLED WITH MASS SPECTROMETRY. <i>Mass Spectrometry Reviews</i> , <b>2022</b> , 41, 51-69	11	4
23	Higher-Order Structure Influences the Kinetics of Diethylpyrocarbonate Covalent Labeling of Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 658-665	3.5	4
22	The Cleavage Profile of Protein Substrates by ClpXP Reveals Deliberate Starts and Pauses. <i>Biochemistry</i> , <b>2020</b> , 59, 4294-4301	3.2	3
21	Measuring the Energy Barrier of the Structural Change That Initiates Amyloid Formation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4731-4735	7.8	3
20	Protein-Ligand Affinity Determinations Using Covalent Labeling-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 1544-1553	3.5	3
19	Altering the Peptide Binding Selectivity of Polymeric Reverse Micelle Assemblies via Metal Ion Loading. <i>Langmuir</i> , <b>2017</b> , 33, 14004-14010	4	3



18	Utilization of Hydrophobic Microenvironment Sensitivity in Diethylpyrocarbonate Labeling for Protein Structure Prediction. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8188-8195	7.8	3
17	Nanodelivery vehicles induce remote biochemical changes in vivo. <i>Nanoscale</i> , <b>2021</b> , 13, 12623-12633	7.7	3
16	Supramolecular Polymeric Assemblies for the Selective Depletion of Abundant Acidic Proteins in Serum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40443-40451	9.5	3
15	Epigallocatechin-3-gallate Inhibits Cu(II)-Induced $\beta$ -Microglobulin Amyloid Formation by Binding to the Edge of Its $\beta$ -Sheets. <i>Biochemistry</i> , <b>2020</b> , 59, 1093-1103	3.2	2
14	Disruption of the open conductance in the $\beta$ -tongue mutants of Cytolysin A. <i>Scientific Reports</i> , <b>2018</b> , 8, 3796	4.9	2
13	Preliminary Capillary Flow Experiments with Amyloid- $\beta$ Possible Needle and Capillary A $\beta$ Adsorption, and a Proposal for Drug Evaluation Under Shear Conditions. <i>Journal of Alzheimers Disease</i> , <b>2019</b> , 72, 751-760	4.3	2
12	Facile synthesis of cationic gold nanoparticles with controlled size and surface plasmon resonance. <i>RSC Advances</i> , <b>2016</b> , 6, 92007-92010	3.7	2
11	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> , <b>2020</b> , 31, 1223-1232	3.5	1
10	Covalent Labeling with an $\alpha$ -Unsaturated Carbonyl Scaffold for Studying Protein Structure and Interactions by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6637-6644	7.8	1
9	Parent ion resolution in linked scans for dissociations occurring in the first field-free region of sector mass spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1997</b> , 8, 545-553	3.5	1
8	Prediction of artifact peak intensity in linked scans for dissociations occurring in the first field-free region of sector mass spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>1997</b> , 8, 554-560	3.5	1
7	LA-ICP-MS and MALDI-MS image registration for correlating nanomaterial biodistributions and their biochemical effects. <i>Analyst, The</i> , <b>2021</b> , 146, 7720-7729	5	1
6	Polymeric nanoassemblies for enrichment and detection of peptides and proteins in human breast milk. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 1027-1035	4.4	1
5	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> , <b>2021</b> , 32, 1237-1248	3.5	1
4	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> , <b>2021</b> , 32, 1780-1788	3.5	1
3	Efficient enrichment of glycopeptides by supramolecular nanoassemblies that use proximity-assisted covalent binding. <i>Analyst, The</i> , <b>2019</b> , 144, 6321-6326	5	1
2	26th ASMS Sanibel Conference on mass spectrometry-ion activation: fundamentals, applications and new frontiers. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1307-9	3.5	
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