

Vicki H Wysocki

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257 papers	11,607 citations	56 h-index	99 g-index
275 ext. papers	12,837 ext. citations	7.8 avg, IF	6.27 L-index

#	Paper	IF	Citations
257	Mobile and localized protons: a framework for understanding peptide dissociation. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 1399-406	2.2	849
256	Influence of Peptide Composition, Gas-Phase Basicity, and Chemical Modification on Fragmentation Efficiency: Evidence for the Mobile Proton Model. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8365-8374	16.4	750
255	Interface Dipoles Arising from Self-Assembled Monolayers on Gold: UVPhotoemission Studies of Alkanethiols and Partially Fluorinated Alkanethiols. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11690-11699	11.7	381
254	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018 , 14, 206-214	11.7	324
253	Influence of Secondary Structure on the Fragmentation of Protonated Peptides. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5142-5154	16.4	314
252	Cleavage N-terminal to proline: analysis of a database of peptide tandem mass spectra. <i>Analytical Chemistry</i> , 2003 , 75, 1963-71	7.8	274
251	Surface-induced dissociation: an effective tool to probe structure, energetics and fragmentation mechanisms of protonated peptides. <i>Journal of Mass Spectrometry</i> , 1996 , 31, 339-50	2.2	271
250	Statistical characterization of ion trap tandem mass spectra from doubly charged tryptic peptides. <i>Analytical Chemistry</i> , 2003 , 75, 1155-63	7.8	232
249	Mass spectrometry of peptides and proteins. <i>Methods</i> , 2005 , 35, 211-22	4.6	224
248	Statistical characterization of the charge state and residue dependence of low-energy CID peptide dissociation patterns. <i>Analytical Chemistry</i> , 2005 , 77, 5800-13	7.8	203
247	Internal energy distributions of isolated ions after activation by various methods. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987 , 75, 181-208		198
246	Fragmentation of protonated peptides: surface-induced dissociation in conjunction with a quantum mechanical approach. <i>Analytical Chemistry</i> , 1993 , 65, 2859-72	7.8	184
245	Selective gas-phase cleavage at the peptide bond C-terminal to aspartic acid in fixed-charge derivatives of Asp-containing peptides. <i>Analytical Chemistry</i> , 2000 , 72, 5804-13	7.8	180
244	Small-molecule analysis with silicon-nanoparticle-assisted laser desorption/ionization mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 434-44	7.8	171
243	Sequence Dependence of Peptide Fragmentation Efficiency Curves Determined by Electrospray Ionization/Surface-Induced Dissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8368-8369	16.4	154
242	A Linguistic Comparison of Letters of Recommendation for Male and Female Chemistry and Biochemistry Job Applicants. <i>Sex Roles</i> , 2007 , 57, 509-514	3.1	142
241	Influence of basic residue content on fragment ion peak intensities in low-energy collision-induced dissociation spectra of peptides. <i>Analytical Chemistry</i> , 2004 , 76, 1243-8	7.8	136

240	Refining the model for selective cleavage at acidic residues in arginine-containing protonated peptides. <i>International Journal of Mass Spectrometry</i> , 2000 , 195-196, 467-479	1.9	108
239	Tuning the Effective Work Function of Gold and Silver Using F-Functionalized Alkanethiols: Varying Surface Composition through Dilution and Choice of Terminal Groups. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20328-20334	3.8	107
238	Surface-induced dissociation of small molecules, peptides, and non-covalent protein complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 190-208	3.5	102
237	The effect of protonation site on bond strengths in simple peptides: Application of Ab initio and modified neglect of differential overlap bond orders and modified neglect of differential overlap energy partitioning. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 704-17	3.5	101
236	Surface induced dissociation: dissecting noncovalent protein complexes in the gas phase. <i>Accounts of Chemical Research</i> , 2014 , 47, 1010-8	24.3	99
235	IRMPD spectroscopy shows that AGG forms an oxazolone b2+ ion. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17644-5	16.4	95
234	Surface-induced dissociation in tandem quadrupole mass spectrometers: A comparison of three designs. <i>Journal of the American Society for Mass Spectrometry</i> , 1992 , 3, 27-32	3.5	93
233	De novo design of protein logic gates. <i>Science</i> , 2020 , 368, 78-84	33.3	88
232	Comparative analysis of PCR-electrospray ionization/mass spectrometry (MS) and MALDI-TOF/MS for the identification of bacteria and yeast from positive blood culture bottles. <i>Clinical Chemistry</i> , 2011 , 57, 1057-67	5.5	88
231	Use of PCR coupled with electrospray ionization mass spectrometry for rapid identification of bacterial and yeast bloodstream pathogens from blood culture bottles. <i>Journal of Clinical Microbiology</i> , 2011 , 49, 345-53	9.7	87
230	Evidence of diketopiperazine and oxazolone structures for HA b2+ ion. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17528-9	16.4	87
229	Programmable design of orthogonal protein heterodimers. <i>Nature</i> , 2019 , 565, 106-111	50.4	87
228	Reductive defluorination of perfluorooctane sulfonate. <i>Environmental Science & Technology</i> , 2008 , 42, 3260-4	10.3	86
227	The effect of the initial water of hydration on the energetics, structures, and H/D exchange mechanism of a family of pentapeptides: an experimental and theoretical study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13768-75	16.4	84
226	Charge-remote fragmentation of gas-phase ions: mechanistic and energetic considerations in the dissociation of long-chain functionalized alkanes and alkenes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 104, 179-211		84
225	Internal energy distribution of benzene molecular ions in surface-induced dissociation. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 212-217	2.2	83
224	Protein subunits released by surface collisions of noncovalent complexes: natively compact structures revealed by ion mobility mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4336-9	16.4	82
223	A mechanistic investigation of the enhanced cleavage at histidine in the gas-phase dissociation of protonated peptides. <i>Analytical Chemistry</i> , 2004 , 76, 2083-94	7.8	81

222	Energy deposition in [Fe(CO) ₅] ⁺ upon collision with a metal surface. <i>Organic Mass Spectrometry</i> , 1986 , 21, 193-195		81
221	Symmetrical gas-phase dissociation of noncovalent protein complexes via surface collisions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15044-5	16.4	79
220	Reactive collisions of benzene ion C ₆ H ₆ ⁺ and C ₆ D ₆ ⁺ at self-assembled monolayer films prepared on gold from n-alkane thiols and a fluorinated alkanethiol: the influence of chain length on the reactivity of the films and the neutralization of the projectile. <i>Journal of the American Chemical Society</i> , 1993 , 115, 5275-5283	16.4	77
219	Dissecting the large noncovalent protein complex GroEL with surface-induced dissociation and ion mobility-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 8262-7	7.8	74
218	The influence of histidine on cleavage C-terminal to acidic residues in doubly protonated tryptic peptides. <i>International Journal of Mass Spectrometry</i> , 2002 , 219, 233-244	1.9	72
217	Thermal decomposition kinetics of protonated peptides and peptide dimers, and comparison with surface-induced dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 1995 , 9, 829-36	2.2	72
216	PCR-electrospray ionization mass spectrometry: the potential to change infectious disease diagnostics in clinical and public health laboratories. <i>Journal of Molecular Diagnostics</i> , 2012 , 14, 295-304	5.1	71
215	Mechanistic differences between two conserved classes of small heat shock proteins found in the plant cytosol. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11489-97	5.4	70
214	Surface-induced dissociation shows potential to be more informative than collision-induced dissociation for structural studies of large systems. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 903-13	3.5	70
213	Revealing the quaternary structure of a heterogeneous noncovalent protein complex through surface-induced dissociation. <i>Analytical Chemistry</i> , 2011 , 83, 2862-5	7.8	68
212	Surface-induced dissociation of multiply protonated peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 1992 , 3, 859-62	3.5	68
211	Polyatomic ion/surface collisions at self-assembled monolayers films. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8969-8970	16.4	66
210	Chemical and pathogen-induced inflammation disrupt the murine intestinal microbiome. <i>Microbiome</i> , 2017 , 5, 47	16.6	64
209	Noncovalent protein tetramers and pentamers with "n" charges yield monomers with n/4 and n/5 charges. <i>Analytical Chemistry</i> , 2009 , 81, 1347-56	7.8	64
208	Dissociation behavior of doubly-charged tryptic peptides: correlation of gas-phase cleavage abundance with ramachandran plots. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3034-5	16.4	63
207	Impact of charge state on gas-phase behaviors of noncovalent protein complexes in collision induced dissociation and surface induced dissociation. <i>Analyst, The</i> , 2013 , 138, 1353-62	5	62
206	Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the mobile proton model. <i>Analytica Chimica Acta</i> , 1999 , 397, 247-256	6.6	61
205	De novo design of tunable, pH-driven conformational changes. <i>Science</i> , 2019 , 364, 658-664	33.3	60

204	Insights into small heat shock protein and substrate structure during chaperone action derived from hydrogen/deuterium exchange and mass spectrometry. <i>Journal of Biological Chemistry</i> , 2008 , 283, 26634-42	5.4	59
203	Paper spray ionization of noncovalent protein complexes. <i>Analytical Chemistry</i> , 2014 , 86, 1342-6	7.8	58
202	Surface-induced dissociation of ion mobility-separated noncovalent complexes in a quadrupole/time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2012 , 84, 6016-23	7.8	58
201	Discovery of an alternate metabolic pathway for urea synthesis in adult <i>Aedes aegypti</i> mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 518-23	11.5	56
200	Rapid molecular genotyping and clonal complex assignment of <i>Staphylococcus aureus</i> isolates by PCR coupled to electrospray ionization-mass spectrometry. <i>Journal of Clinical Microbiology</i> , 2009 , 47, 1733-41	9.7	55
199	Surface-induced dissociation of peptides and protein complexes in a quadrupole/time-of-flight mass spectrometer. <i>Analytical Chemistry</i> , 2008 , 80, 1425-36	7.8	55
198	Pathogen profiling: rapid molecular characterization of <i>Staphylococcus aureus</i> by PCR/electrospray ionization-mass spectrometry and correlation with phenotype. <i>Journal of Clinical Microbiology</i> , 2009 , 47, 3129-37	9.7	54
197	Internal energy requirements for remote site fragmentation. <i>Organic Mass Spectrometry</i> , 1988 , 23, 627-633		54
196	Molecular model of a soluble guanylyl cyclase fragment determined by small-angle X-ray scattering and chemical cross-linking. <i>Biochemistry</i> , 2013 , 52, 1568-82	3.2	51
195	Surface-Induced Dissociation of Homotetramers with D2 Symmetry Yields their Assembly Pathways and Characterizes the Effect of Ligand Binding. <i>Chemistry and Biology</i> , 2015 , 22, 583-92		49
194	Refining the Structural Model of a Heterohexameric Protein Complex: Surface Induced Dissociation and Ion Mobility Provide Key Connectivity and Topology Information. <i>ACS Central Science</i> , 2015 , 1, 477-487	16.8	49
193	Surface-Induced Dissociation of Noncovalent Protein Complexes in an Extended Mass Range Orbitrap Mass Spectrometer. <i>Analytical Chemistry</i> , 2019 , 91, 3611-3618	7.8	48
192	An unusual dimeric small heat shock protein provides insight into the mechanism of this class of chaperones. <i>Journal of Molecular Biology</i> , 2013 , 425, 1683-96	6.5	48
191	Average activation energies of low-energy fragmentation processes of protonated peptides determined by a new approach. <i>Rapid Communications in Mass Spectrometry</i> , 1996 , 10, 911-8	2.2	48
190	Biogenic manganese oxide nanoparticle formation by a multimeric multicopper oxidase Mnx. <i>Nature Communications</i> , 2017 , 8, 746	17.4	46
189	Human Argonaute3 has slicer activity. <i>Nucleic Acids Research</i> , 2017 , 45, 11867-11877	20.1	46
188	Rapid online buffer exchange for screening of proteins, protein complexes and cell lysates by native mass spectrometry. <i>Nature Protocols</i> , 2020 , 15, 1132-1157	18.8	46
187	Human defensins facilitate local unfolding of thermodynamically unstable regions of bacterial protein toxins. <i>Immunity</i> , 2014 , 41, 709-21	32.3	46

186	NF45 and NF90 regulate HS4-dependent interleukin-13 transcription in T cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 8256-67	5.4	46
185	Surface-Induced Dissociation Mass Spectra as a Tool for Distinguishing Different Structural Forms of Gas-Phase Multimeric Protein Complexes. <i>Analytical Chemistry</i> , 2015 , 87, 11879-86	7.8	45
184	SQID: an intensity-incorporated protein identification algorithm for tandem mass spectrometry. <i>Journal of Proteome Research</i> , 2011 , 10, 1593-602	5.6	45
183	A data-mining scheme for identifying peptide structural motifs responsible for different MS/MS fragmentation intensity patterns. <i>Journal of Proteome Research</i> , 2008 , 7, 70-9	5.6	45
182	Differential ammonia metabolism in <i>Aedes aegypti</i> fat body and midgut tissues. <i>Journal of Insect Physiology</i> , 2010 , 56, 1040-9	2.4	44
181	Surface-Induced Dissociation: An Effective Method for Characterization of Protein Quaternary Structure. <i>Analytical Chemistry</i> , 2019 , 91, 190-209	7.8	44
180	Computational investigation and hydrogen/deuterium exchange of the fixed charge derivative tris(2,4,6-trimethoxyphenyl) phosphonium: implications for the aspartic acid cleavage mechanism. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1067-80	3.5	43
179	Molecular structure and function of the novel BrnT/BrnA toxin-antitoxin system of <i>Brucella abortus</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 12098-110	5.4	42
178	Interactions between CusF and CusB identified by NMR spectroscopy and chemical cross-linking coupled to mass spectrometry. <i>Biochemistry</i> , 2011 , 50, 2559-66	3.2	41
177	Low-energy ion-surface reactions of pyrazine with two classes of self-assembled monolayers: influence of alkyl chain orientation. <i>Analytical Chemistry</i> , 2000 , 72, 2603-8	7.8	41
176	Effect of alkyl substitution at the amide nitrogen on amide bond cleavage: electrospray ionization/surface-induced dissociation fragmentation of substance P and two alkylated analogs. <i>Journal of Mass Spectrometry</i> , 1996 , 31, 1141-8	2.2	41
175	Confirmation of intersubunit connectivity and topology of designed protein complexes by native MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1268-1273	11.5	40
174	Relative interfacial cleavage energetics of protein complexes revealed by surface collisions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8143-8148	11.5	39
173	Identification of residual blood proteins in ticks by mass spectrometry proteomics. <i>Emerging Infectious Diseases</i> , 2008 , 14, 1273-5	10.2	39
172	Possible isomers in ligand protected Ag ₁₁ cluster ions identified by ion mobility mass spectrometry and fragmented by surface induced dissociation. <i>Chemical Communications</i> , 2016 , 52, 3805-8	5.8	36
171	Are peptides without basic residues protonated primarily at the amino terminus?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998 , 174, 95-100		36
170	Reactive ion surface collisions: Application of ionized acetone-d ₆ , DMSO-d ₆ and pyridine-d ₅ as probes for the characterization of self-assembled monolayer films on gold. <i>Organic Mass Spectrometry</i> , 1993 , 28, 1665-1673		36
169	Investigation of gas phase ion structure for proline-containing b(2) ion. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 20-8	3.5	35

168	A dimer interface mutation in glyceraldehyde-3-phosphate dehydrogenase regulates its binding to AU-rich RNA. <i>Journal of Biological Chemistry</i> , 2015 , 290, 1770-85	5.4	34
167	Interfacial residues promote an optimal alignment of the catalytic center in human soluble guanylate cyclase: heterodimerization is required but not sufficient for activity. <i>Biochemistry</i> , 2014 , 53, 2153-65	3.2	34
166	Tandem fourier transform mass spectrometry studies of surface-induced dissociation of benzene monomer and dimer ions on a self-assembled fluorinated alkanethiolate monolayer surface. <i>Analytical Chemistry</i> , 1997 , 69, 2496-503	7.8	33
165	Collisions of C and C at fluorinated and non-fluorinated self-assembled monolayer films. <i>Rapid Communications in Mass Spectrometry</i> , 1993 , 7, 693-699	2.2	33
164	Low-energy collisional activation of polyatomic ions with different target gases. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989 , 90, 71-83		33
163	The Exon Junction Complex Undergoes a Compositional Switch that Alters mRNP Structure and Nonsense-Mediated mRNA Decay Activity. <i>Cell Reports</i> , 2018 , 25, 2431-2446.e7	10.6	33
162	Internal energy deposition with silicon nanoparticle-assisted laser desorption/ionization (SPALDI) mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 200-205	1.9	32
161	Linkage position determination of lithium-cationized disaccharides by surface-induced dissociation tandem mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994 , 29, 700-702		32
160	Statistical analysis of electron transfer dissociation pairwise fragmentation patterns. <i>Analytical Chemistry</i> , 2011 , 83, 9540-5	7.8	31
159	Analysis of whole body ammonia metabolism in <i>Aedes aegypti</i> using [15N]-labeled compounds and mass spectrometry. <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 614-22	4.5	31
158	Low-Energy Ion-Surface Collisions Characterize Alkyl- and Fluoroalkyl-Terminated Self-Assembled Monolayers on Gold. <i>Langmuir</i> , 2002 , 18, 3895-3902	4	31
157	Competitive dehydration and deamination of .alpha.,.omega.-amino alcohols and .alpha.,.omega.-amino acids in the gas phase. <i>Journal of Organic Chemistry</i> , 1985 , 50, 1287-1291	4.2	31
156	Surface induced dissociation as a tool to study membrane protein complexes. <i>Chemical Communications</i> , 2017 , 53, 3106-3109	5.8	30
155	Histone H1 phosphorylation in breast cancer. <i>Journal of Proteome Research</i> , 2014 , 13, 2453-67	5.6	30
154	N-terminal region of CusB is sufficient for metal binding and metal transfer with the metallochaperone CusF. <i>Biochemistry</i> , 2012 , 51, 6767-75	3.2	30
153	Structural influences on preferential oxazolone versus diketopiperazine b(2+) ion formation for histidine analogue-containing peptides. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4296-304	2.8	30
152	Disulfide-dependent self-assembly of adiponectin octadecamers from trimers and presence of stable octadecameric adiponectin lacking disulfide bonds in vitro. <i>Biochemistry</i> , 2009 , 48, 12345-57	3.2	30
151	Uncovering the stoichiometry of <i>Pyrococcus furiosus</i> RNase P, a multi-subunit catalytic ribonucleoprotein complex, by surface-induced dissociation and ion mobility mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11483-7	16.4	28

150	Surface induced dissociation yields quaternary substructure of refractory noncovalent phosphorylase B and glutamate dehydrogenase complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 368-79	3.5	28
149	Separation and identification of structural isomers by quadrupole collision-induced dissociation-hydrogen/deuterium exchange-infrared multiphoton dissociation (QCID-HDX-IRMPD). <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 1329-38	3.5	27
148	Implementation of low-energy surface-induced dissociation (eV SID) and high-energy collision-induced dissociation (keV CID) in a linear sector-TOF hybrid tandem mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2001 , 212, 535-551	1.9	27
147	Examination of Sputtered Ion Mechanisms Leading to the Formation of C ₇ H ₇ ⁺ during Surface Induced Dissociation (SID) Tandem Mass Spectrometry (MS/MS) of Benzene Molecular Cations. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8375-8380	16.4	27
146	Eng1 and Exg8 Are the Major β -Glucanases Secreted by the Fungal Pathogen. <i>Journal of Biological Chemistry</i> , 2017 , 292, 4801-4810	5.4	26
145	Proton migration and its effect on the MS fragmentation of N-acetyl OMe proline: MS/MS experiments and ab initio and density functional calculations. <i>International Journal of Mass Spectrometry</i> , 2005 , 241, 315-323	1.9	26
144	Surface-induced dissociation of singly and multiply protonated polypropylenamine dendrimers. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 414-22	3.5	26
143	Determinants of gas-phase disassembly behavior in homodimeric protein complexes with related yet divergent structures. <i>Analytical Chemistry</i> , 2011 , 83, 3881-9	7.8	25
142	De novo design of transmembrane β -barrels. <i>Science</i> , 2021 , 371,	33.3	25
141	Comparative Structural Analysis of 20S Proteasome Ortholog Protein Complexes by Native Mass Spectrometry. <i>ACS Central Science</i> , 2020 , 6, 573-588	16.8	24
140	Fragmentation pathway for glutamine identification: loss of 73 Da from dimethylformamidinium glutamine isobutyl ester. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1192-203	3.5	24
139	Influence of N-terminal residue composition on the structure of proline-containing b ₂ ⁺ ions. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1291-8	2.8	22
138	Bacillus cereus spores release alanine that synergizes with inosine to promote germination. <i>PLoS ONE</i> , 2009 , 4, e6398	3.7	22
137	Surface-Induced Dissociation of Protein Complexes in a Hybrid Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 895-901	7.8	21
136	Using SLIM-Based IMS-IMS Together with Cryogenic Infrared Spectroscopy for Glycan Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 9079-9085	7.8	21
135	Investigations of the mechanism of the "proline effect" in tandem mass spectrometry experiments: the "pipecolic acid effect". <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1705-15	3.5	21
134	Localization of Protein Complex Bound Ligands by Surface-Induced Dissociation High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 12796-12801	7.8	21
133	Ion-Surface Reactions Involving Isotopically Labeled Langmuir-Blodgett Films. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12010-12011	16.4	20

132	Reactions between doubly charged [C ₆ H ₆] ²⁺ ions and self-assembled monolayer surface. <i>Organic Mass Spectrometry</i> , 1993 , 28, 283-284		20
131	Collisional activation of distonic radical cations and their conventional isomers in quadrupole tandem mass spectrometry. <i>Journal of the American Chemical Society</i> , 1990 , 112, 5110-5116	16.4	20
130	Foldability of a Natural De Novo Evolved Protein. <i>Structure</i> , 2017 , 25, 1687-1696.e4	5.2	19
129	Extended Gas-Phase Trapping Followed by Surface-Induced Dissociation of Noncovalent Protein Complexes. <i>Analytical Chemistry</i> , 2016 , 88, 1218-21	7.8	19
128	Predicting Protein Complex Structure from Surface-Induced Dissociation Mass Spectrometry Data. <i>ACS Central Science</i> , 2019 , 5, 1330-1341	16.8	19
127	Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD(3)OD. <i>International Journal of Mass Spectrometry</i> , 2006 , 249-250, 93-105	1.9	19
126	Submicrosecond surface-induced dissociation of peptide ions in a MALDI TOF MS. <i>Analytical Chemistry</i> , 2004 , 76, 5080-91	7.8	19
125	Dissociative and Reactive Hyperthermal Ion-Surface Collisions with Langmuir-Blodgett Films Terminated by CF ₃ (CH ₂) _n -Perfluoroalkyl, or n-Alkyl Groups. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10554-10562	16.4	19
124	Simple and Minimally Invasive SID Devices for Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 11195-11203	7.8	19
123	Collision Cross Sections of Charge-Reduced Proteins and Protein Complexes: A Database for Collision Cross Section Calibration. <i>Analytical Chemistry</i> , 2020 , 92, 4475-4483	7.8	18
122	A novel double kink-turn module in euryarchaeal RNase P RNAs. <i>Nucleic Acids Research</i> , 2017 , 45, 7432-7440	14.0	18
121	Structural analysis of activated SgrAI-DNA oligomers using ion mobility mass spectrometry. <i>Biochemistry</i> , 2013 , 52, 4373-81	3.2	18
120	Protein identification via surface-induced dissociation in an FT-ICR mass spectrometer and a patchwork sequencing approach. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 700-9	3.5	18
119	Stable, ligand-doped, poly(bis-SorbPC) lipid bilayer arrays for protein binding and detection. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1310-5	9.5	17
118	Combination of sustained off-resonance irradiation and on-resonance excitation in FT-ICR. <i>Analytical Chemistry</i> , 2005 , 77, 7626-38	7.8	17
117	Illustration of SID-IM-SID (surface-induced dissociation-ion mobility-SID) mass spectrometry: homo and hetero model protein complexes. <i>Analyst, The</i> , 2015 , 140, 7012-9	5	16
116	Development of a host blood meal database: de novo sequencing of hemoglobin from nine small mammals using mass spectrometry. <i>Biological Chemistry</i> , 2012 , 393, 195-201	4.5	16
115	Surface-induced dissociation of diphenyl ether. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998 , 174, 81-94		16

114	Light Regulation of Enzyme Allostery through Photo-responsive Unnatural Amino Acids. <i>Cell Chemical Biology</i> , 2019 , 26, 1501-1514.e9	8.2	15
113	Laser desorption ionization of small molecules assisted by tungsten oxide and rhenium oxide particles. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 891-8	2.2	15
112	Investigation of the trans effect in the fragmentation of dinuclear platinum complexes by electrospray ionization surface-induced dissociation tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 436-43	2.2	15
111	A metabolic intermediate of the fructose-asparagine utilization pathway inhibits growth of a <i>Salmonella</i> fraB mutant. <i>Scientific Reports</i> , 2016 , 6, 28117	4.9	14
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