

Martin F Jarrold

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229
papers

14,030
citations

60
h-index

108
g-index

235
ext. papers

14,925
ext. citations

8.8
avg, IF

6.59
L-index

#	Paper	IF	Citations
229	Calcium Contributes to Polarized Targeting of HIV Assembly Machinery by Regulating Complex Stability.. <i>Jacs Au</i> , 2022 , 2, 522-530		
228	Characterization of Recombinant Chimpanzee Adenovirus C68 Low and High-Density Particles: Impact on Determination of Viral Particle Titer. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 753480	5.8	2
227	Applications of Charge Detection Mass Spectrometry in Molecular Biology and Biotechnology. <i>Chemical Reviews</i> , 2021 ,	68.1	6
226	Core Protein-Directed Antivirals and Importin β Can Synergistically Disrupt HBV Capsids. <i>Journal of Virology</i> , 2021 , JVI0139521	6.6	1
225	Heterogeneity of Glycan Processing on Trimeric SARS-CoV-2 Spike Protein Revealed by Charge Detection Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3959-3966	16.4	26
224	Thermal Analysis of a Mixture of Ribosomal Proteins by vT-ESI-MS: Toward a Parallel Approach for Characterizing the. <i>Analytical Chemistry</i> , 2021 , 93, 8484-8492	7.8	3
223	HBV Core-Directed Antivirals and Importin β Can Synergistically Disrupt Capsids. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1130-1131	0.5	1
222	Asymmetrizing an icosahedral virus capsid by hierarchical assembly of subunits with designed asymmetry. <i>Nature Communications</i> , 2021 , 12, 589	17.4	4
221	Characterization of Classical Vaccines by Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2021 , 93, 11965-11972	7.8	3
220	Comparison of analytical techniques to quantitate the capsid content of adeno-associated viral vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 23, 254-262	6.4	6
219	Quantitative analysis of genome packaging in recombinant AAV vectors by charge detection mass spectrometry. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 23, 87-97	6.4	4
218	Dynamic Calibration Enables High-Accuracy Charge Measurements on Individual Ions for Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1241-1248	3.5	12
217	Disassembly Intermediates of the Brome Mosaic Virus Identified by Charge Detection Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2124-2131	3.4	7
216	Charge Detection Mass Spectrometry Measurements of Exosomes and other Extracellular Particles Enriched from Bovine Milk. <i>Analytical Chemistry</i> , 2020 , 92, 3285-3292	7.8	19
215	N-terminal VP1 Truncations Favor = 1 Norovirus-Like Particles. <i>Vaccines</i> , 2020 , 9,	5.3	8
214	Implementation of a Charge-Sensitive Amplifier without a Feedback Resistor for Charge Detection Mass Spectrometry Reduces Noise and Enables Detection of Individual Ions Carrying a Single Charge. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 146-154	3.5	11
213	Determination of Antibody Population Distributions for Virus-Antibody Conjugates by Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 1285-1291	7.8	3

212	Virus Assembly Pathways: Straying Away but Not Too Far. <i>Small</i> , 2020 , 16, e2004475	11	6
211	Higher Resolution Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 11357-11364	7.8	17
210	Real-Time Analysis and Signal Optimization for Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 898-904	3.5	20
209	Dissecting the Components of Sindbis Virus from Arthropod and Vertebrate Hosts: Implications for Infectivity Differences. <i>ACS Infectious Diseases</i> , 2019 , 5, 892-902	5.5	15
208	Virus-like particle size and molecular weight/mass determination applying gas-phase electrophoresis (native nES GEMMA). <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 5951-5962	4.4	19
207	Dramatic Improvement in Sensitivity with Pulsed Mode Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 14002-14008	7.8	9
206	Ion-Ion Interactions in Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2741-2749	3.5	4
205	Lot-to-Lot Variation in Adeno-Associated Virus Serotype 9 (AAV9) Preparations. <i>Human Gene Therapy Methods</i> , 2019 , 30, 214-225	4.9	7
204	Multiple Pathways in Capsid Assembly. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5784-5790	16.4	36
203	Integrative structure and functional anatomy of a nuclear pore complex. <i>Nature</i> , 2018 , 555, 475-482	50.4	280
202	Optimized Electrostatic Linear Ion Trap for Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 2086-2095	3.5	21
201	The FUNPET-a New Hybrid Ion Funnel-Ion Carpet Atmospheric Pressure Interface for the Simultaneous Transmission of a Broad Mass Range. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 2160-2172	3.5	21
200	Probing Antibody Binding to Canine Parvovirus with Charge Detection Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15701-15711	16.4	13
199	Resolution of Lipoprotein Subclasses by Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 6353-6356	7.8	17
198	Spontaneous Mass and Charge Losses from Single Multi-Megadalton Ions Studied by Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 498-506	3.5	14
197	Melting of Size-Selected Aluminum Clusters with 150B42 Atoms: The Transition to Thermodynamic Scaling. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10242-10248	3.8	7
196	Charge detection mass spectrometry: weighing heavier things. <i>Analyst, The</i> , 2017 , 142, 1654-1671	5	49
195	A molecular breadboard: Removal and replacement of subunits in a hepatitis B virus capsid. <i>Protein Science</i> , 2017 , 26, 2170-2180	6.3	18

194	Hepatitis B Virus Capsid Completion Occurs through Error Correction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16932-16938	16.4	60
193	Single-molecule mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2017 , 36, 715-733	11	45
192	A viral scaffolding protein triggers portal ring oligomerization and incorporation during procapsid assembly. <i>Science Advances</i> , 2017 , 3, e1700423	14.3	27
191	Charge Detection Mass Spectrometry Identifies Preferred Non-Icosahedral Polymorphs in the Self-Assembly of Woodchuck Hepatitis Virus Capsids. <i>Journal of Molecular Biology</i> , 2016 , 428, 292-300	6.5	32
190	Measurement of the accurate mass of a 50 MDa infectious virus. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1957-62	2.2	38
189	Virus Matryoshka: A Bacteriophage Particle-Guided Molecular Assembly Approach to a Monodisperse Model of the Immature Human Immunodeficiency Virus. <i>Small</i> , 2016 , 12, 5862-5872	11	7
188	Catching a virus in a molecular net. <i>Nanoscale</i> , 2016 , 8, 16221-8	7.7	23
187	Resolving Adeno-Associated Viral Particle Diversity With Charge Detection Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 6718-25	7.8	68
186	Acquiring Structural Information on Virus Particles with Charge Detection Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1028-36	3.5	33
185	Importin β Can Bind Hepatitis B Virus Core Protein and Empty Core-Like Particles and Induce Structural Changes. <i>PLoS Pathogens</i> , 2016 , 12, e1005802	7.6	29
184	Charge Detection Mass Spectrometry for Single Ions with an Uncertainty in the Charge Measurement of 0.65%. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 1213-20	3.5	39
183	Charge Detection Mass Spectrometry with Almost Perfect Charge Accuracy. <i>Analytical Chemistry</i> , 2015 , 87, 10330-7	7.8	64
182	Melting of size-selected gallium clusters with 60-183 atoms. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 4900-6	2.8	29
181	Detection of late intermediates in virus capsid assembly by charge detection mass spectrometry. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3536-41	16.4	103
180	A simple electrospray interface based on a DC ion carpet. <i>International Journal of Mass Spectrometry</i> , 2014 , 371, 1-7	1.9	13
179	A frequency and amplitude scanned quadrupole mass filter for the analysis of high m/z ions. <i>Review of Scientific Instruments</i> , 2014 , 85, 113109	1.7	5
178	Reactions of liquid and solid aluminum clusters with N ₂ : the role of structure and phase in Al ₁₁₄ (+), Al ₁₁₅ (+), and Al ₁₁₇ (+). <i>Journal of Chemical Physics</i> , 2014 , 141, 204304	3.9	7
177	Charge detection mass spectrometry of bacteriophage P22 procapsid distributions above 20 MDa. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 483-8	2.2	42

176	Structurally similar woodchuck and human hepadnavirus core proteins have distinctly different temperature dependences of assembly. <i>Journal of Virology</i> , 2014 , 88, 14105-15	6.6	22
175	Charge detection mass spectrometry for single ions with a limit of detection of 30 charges. <i>International Journal of Mass Spectrometry</i> , 2013 , 345-347, 153-159	1.9	71
174	Charge detection mass spectrometry with resolved charge states. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 101-8	3.5	68
173	Probing higher order multimers of pyruvate kinase with charge detection mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2013 , 337, 50-56	1.9	37
172	Reactions of CO ₂ on solid and liquid Al ₁₀₀ ⁺ . <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1053-8	2.8	6
171	Dehydrogenation of benzene on liquid Al ₁₀₀ (⁺). <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2075-81	2.8	2
170	Discovering free energy basins for macromolecular systems via guided multiscale simulation. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8534-44	3.4	7
169	Melting and freezing of metal clusters. <i>Annual Review of Physical Chemistry</i> , 2011 , 62, 151-72	15.7	100
168	Image charge detection mass spectrometry: pushing the envelope with sensitivity and accuracy. <i>Analytical Chemistry</i> , 2011 , 83, 950-6	7.8	32
167	Charge separation from the bursting of bubbles on water. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5723-8	2.8	27
166	Activation of dinitrogen by solid and liquid aluminum nanoclusters: a combined experimental and theoretical study. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12906-18	16.4	39
165	Melting of size-selected aluminum nanoclusters with 84-128 atoms. <i>Journal of Chemical Physics</i> , 2010 , 132, 034302	3.9	35
164	Metal clusters with hidden ground states: Melting and structural transitions in Al ₁₁₅ (⁺), Al ₁₁₆ (⁺), and Al ₁₁₇ (⁺). <i>Journal of Chemical Physics</i> , 2009 , 131, 124305	3.9	15
163	Electronic effects on melting: comparison of aluminum cluster anions and cations. <i>Journal of Chemical Physics</i> , 2009 , 131, 044307	3.9	47
162	Freezing, fragmentation, and charge separation in sonic sprayed water droplets. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 191-199	1.9	14
161	Melting dramatically enhances the reactivity of aluminum nanoclusters. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2446-7	16.4	44
160	One ring to bind them all: shape-selective complexation of phenylenediamine isomers with cucurbit[6]uril in the gas phase. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 989-97	2.8	44
159	Phase coexistence in melting aluminum clusters. <i>Journal of Chemical Physics</i> , 2009 , 130, 204303	3.9	20

158	Substituting a copper atom modifies the melting of aluminum clusters. <i>Journal of Chemical Physics</i> , 2008 , 129, 124709	3.9	20
157	Correlation between the latent heats and cohesive energies of metal clusters. <i>Journal of Chemical Physics</i> , 2008 , 129, 144702	3.9	52
156	Metal clusters that freeze into high energy geometries. <i>Journal of Chemical Physics</i> , 2008 , 129, 014503	3.9	17
155	Evidence for High T C Superconducting Transitions in Isolated Al ₅ and Al ₇ Nanoclusters. <i>Journal of Superconductivity and Novel Magnetism</i> , 2008 , 21, 163-166	1.5	30
154	Charge separation in the aerodynamic breakup of micrometer-sized water droplets. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13352-63	2.8	95
153	Melting of alloy clusters: effects of aluminum doping on gallium cluster melting. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 8056-61	2.8	14
152	Helices and Sheets in vacuo. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1659-71	3.6	119
151	Melting of Aluminum Cluster Cations with 31 ⁺ 8 Atoms: Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17788-17794	3.8	30
150	Ion calorimetry: Using mass spectrometry to measure melting points. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 74-81	3.5	41
149	Folding and unfolding of helix-turn-helix motifs in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1239-48	3.5	27
148	Pulsed acceleration charge detection mass spectrometry: application to weighing electrosprayed droplets. <i>Analytical Chemistry</i> , 2007 , 79, 8431-9	7.8	35
147	Improved signal stability from a laser vaporization source with a liquid metal target. <i>Review of Scientific Instruments</i> , 2007 , 78, 075108	1.7	21
146	Melting transitions in aluminum clusters: The role of partially melted intermediates. <i>Physical Review B</i> , 2007 , 76,	3.3	54
145	An IMS-IMS analogue of MS-MS. <i>Analytical Chemistry</i> , 2006 , 78, 4161-74	7.8	221
144	Proton transfer-induced conformational changes and melting in designed peptides in the gas phase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7193-7	16.4	28
143	Negative droplets from positive electrospray. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 12607-12	2.8	31
142	Stable copper-tin cluster compositions from high-temperature annealing. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8755-9	2.8	22
141	Second-order phase transitions in amorphous gallium clusters. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16575-8	3.4	41

140	Entropic stabilization of isolated beta-sheets. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4675-4684	16.4	39
139	Non-covalent interactions between unsolvated peptides: helical complexes based on acid-base interactions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6442-7	3.4	11
138	Ion funnels for the masses: experiments and simulations with a simplified ion funnel. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1708-12	3.5	50
137	Melting, premelting, and structural transitions in size-selected aluminum clusters with around 55 atoms. <i>Physical Review Letters</i> , 2005 , 94, 173401	7.4	150
136	Tin clusters that do not melt: Calorimetry measurements up to 650K. <i>Physical Review B</i> , 2005 , 71,	3.3	41
135	Left-handed and ambidextrous helices in the gas phase. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11773-80	3.4	13
134	Melting, freezing, sublimation, and phase coexistence in sodium chloride nanocrystals. <i>Journal of Chemical Physics</i> , 2004 , 121, 6502-7	3.9	30
133	Application of evolutionary algorithm methods to polypeptide folding: comparison with experimental results for unsolvated Ac-(Ala-Gly-Gly) ₅ -LysH ⁺ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7215-22	11.5	19
132	All-atom generalized-ensemble simulations of small proteins. <i>Journal of Molecular Graphics and Modelling</i> , 2004 , 22, 397-403	2.8	35
131	Extreme stability of an unsolvated alpha-helix. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7420-16.4	16.4	69
130	Pi-helix preference in unsolvated peptides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2777-84	16.4	20
129	Gas-Phase Zwitterions in the Absence of a Net Charge. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10861-10864	16.4	46
128	Water molecule adsorption on short alanine peptides: how short is the shortest gas-phase alanine-based helix?. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8454-8	16.4	38
127	Gallium cluster "magic melters". <i>Journal of the American Chemical Society</i> , 2004 , 126, 8628-9	16.4	88
126	The mobile proton in polyalanine peptides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16981-7	16.4	22
125	Metal Ion Interactions with Polyalanine Peptides. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6093-6097	3.4	38
124	Water molecule adsorption on protonated dipeptides. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1206-13	16.4	30
123	Probing helix formation in unsolvated peptides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10740-7	16.4	28

122	Hot and solid gallium clusters: too small to melt. <i>Physical Review Letters</i> , 2003 , 91, 215508	7.4	200
121	Helix-turn-helix motifs in unsolvated peptides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7186-7	16.4	24
120	Noncovalent Interactions between Unsolvated Peptides: Dissociation of Helical and Globular Peptide Complexes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14529-14536	3.4	15
119	Direct probing of zwitterion formation in unsolvated peptides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8996-7	16.4	15
118	The energy landscape of unsolvated peptides: the role of context in the stability of alanine/glycine helices. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3941-7	16.4	15
117	Application of molecular beam deflection time-of-flight mass spectrometry to peptide analysis. <i>Analytical Chemistry</i> , 2003 , 75, 5512-6	7.8	15
116	A first-order transition in the charge-induced conformational changes of polymers. <i>Journal of Chemical Physics</i> , 2002 , 116, 9964-9974	3.9	5
115	Peptide pinwheels. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1154-5	16.4	16
114	Noncovalent Interactions between Unsolvated Peptides. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9655-9664	2.8	28
113	Electric susceptibility of unsolvated glycine-based peptides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6737-41	16.4	47
112	The initial steps in the hydration of unsolvated peptides: water molecule adsorption on alanine-based helices and globules. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11148-58	16.4	52
111	The energy landscape of unsolvated peptides: helix formation and cold denaturation in Ac-A4G7A4 + H+. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4422-31	16.4	27
110	Nanocrystalline Aggregation of Serine Detected by Electrospray Ionization Mass Spectrometry: Origin of the Stable Homochiral Gas-Phase Serine Octamer. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1219-1228	3.4	118
109	Structural information from ion mobility measurements: applications to semiconductor clusters. <i>Chemical Society Reviews</i> , 2001 , 30, 26-35	58.5	111
108	Helix formation in unsolvated peptides: side chain entropy is not the determining factor. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7907-8	16.4	27
107	Disrupting Helix Formation in Unsolvated Peptides. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4436-4444	3.4	26
106	Molecular dynamics simulations of the rehydration of folded and unfolded cytochrome C ions in the vapor phase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6503-7	16.4	19
105	Synthesis and Temperature-Dependence of Hydrogen-Terminated Silicon Clusters. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4188-4194	3.4	43

104	Helix unfolding in unsolvated peptides. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5660-7	16.4	59
103	Permanent electric dipole and conformation of unsolvated tryptophan. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8440-1	16.4	83
102	Raman and Fluorescence Spectra of Size-Selected, Matrix-Isolated C14 and C18 Neutral Carbon Clusters. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 3029-3033	2.8	24
101	Structural studies of Sc metallofullerenes by high-resolution ion mobility measurements. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6427-8	16.4	24
100	The smallest fullerene. <i>Nature</i> , 2000 , 407, 26-7	50.4	39
99	Transition from covalent to metallic behavior in group-14 clusters. <i>Chemical Physics Letters</i> , 2000 , 317, 615-618	2.5	67
98	Peptides and proteins in the vapor phase. <i>Annual Review of Physical Chemistry</i> , 2000 , 51, 179-207	15.7	325
97	Observation of "Stick" and "Handle" intermediates along the fullerene road. <i>Physical Review Letters</i> , 2000 , 84, 2421-4	7.4	49
96	Modeling ionic mobilities by scattering on electronic density isosurfaces: Application to silicon cluster anions. <i>Journal of Chemical Physics</i> , 2000 , 112, 4517-4526	3.9	120
95	Conformations of Unsolvated Glycine-Based Peptides. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 2154-2158	2.5	36
94	Conformations of Unsolvated Valine-Based Peptides. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9243-9256	16.4	53
93	Solid clusters above the bulk melting point. <i>Physical Review Letters</i> , 2000 , 85, 2530-2	7.4	247
92	Metal-Ion Enhanced Helicity in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12377-12378	16.4	86
91	One Water Molecule Stiffens a Protein. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2950-2951	16.4	44
90	Tin clusters adopt prolate geometries. <i>Physical Review A</i> , 1999 , 60, 1235-1239	2.6	93
89	High-resolution ion mobility measurements of indium clusters: electron spill-out in metal cluster anions and cations. <i>Chemical Physics Letters</i> , 1999 , 304, 19-22	2.5	29
88	High-resolution ion mobility measurements for silicon cluster anions and cations. <i>Journal of Chemical Physics</i> , 1999 , 111, 7865-7870	3.9	129
87	Helix Formation in Unsolvated Alanine-Based Peptides: Helical Monomers and Helical Dimers. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3494-3501	16.4	144

86	Conformations of Gly(n)H ⁺ and Ala(n)H ⁺ peptides in the gas phase. <i>Biophysical Journal</i> , 1999 , 76, 1591-72.9		92
85	Molecular Dynamics Simulations of the Charge-Induced Unfolding and Refolding of Unsolvated Cytochrome c. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10017-10021	3.4	50
84	Structures of Germanium Clusters: Where the Growth Patterns of Silicon and Germanium Clusters Diverge. <i>Physical Review Letters</i> , 1999 , 83, 2167-2170	7.4	117
83	Thermal Unfolding of Unsolvated Cytochrome c: Experiment and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2712-2721	16.4	87
82	Ball-and-Chain Dimers from a Hot Fullerene Plasma. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5275-5284	4.8	35
81	Unfolding, Refolding, and Hydration of Proteins in the Gas Phase. <i>Accounts of Chemical Research</i> , 1999 , 32, 360-367	24.3	161
80	Hydration of Folded and Unfolded Gas-Phase Proteins: Saturation of Cytochrome c and Apomyoglobin. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1327-1328	16.4	53
79	Structures of medium-sized silicon clusters. <i>Nature</i> , 1998 , 392, 582-585	50.4	579
78	Structures of the Clusters Produced by Laser Desorption of Fullerenes: [2+2] Cycloadducts of Preshrunk Cages. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 7919-7923	2.8	26
77	Design of Helices That Are Stable in Vacuo. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12974-12975	120.75	155
76	Mobilities of carbon cluster ions: Critical importance of the molecular attractive potential. <i>Journal of Chemical Physics</i> , 1998 , 108, 2416-2423	3.9	120
75	Dissociation Energies of Silicon Clusters: A Depth Gauge for the Global Minimum on the Potential Energy Surface. <i>Physical Review Letters</i> , 1998 , 81, 4616-4619	7.4	68
74	Ionization of medium-sized silicon clusters and the geometries of the cations. <i>Journal of Chemical Physics</i> , 1998 , 109, 9401-9409	3.9	161
73	Raman spectra and calculated vibrational frequencies of size-selected C ₁₆ , C ₁₈ , and C ₂₀ clusters. <i>Journal of Chemical Physics</i> , 1998 , 109, 9652-9655	3.9	73
72	Structural Transitions in Sodium Chloride Nanocrystals. <i>Physical Review Letters</i> , 1997 , 78, 4213-4216	7.4	63
71	Surface reactions driven by cluster impact: Oxidation of Si(111) by (O ₂) _n ⁺ (n~1600). <i>Journal of Chemical Physics</i> , 1997 , 106, 8855-8861	3.9	13
70	Conformations, Unfolding, and Refolding of Apomyoglobin in Vacuum: An Activation Barrier for Gas-Phase Protein Folding. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2987-2994	16.4	182
69	Structural Elucidation of Fullerene Dimers by High-Resolution Ion Mobility Measurements and Trajectory Calculation Simulations. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1684-1688	2.8	55

68	Protein Structure in Vacuo: Gas-Phase Conformations of BPTI and Cytochrome c. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2240-2248	16.4	376
67	Hydration of Gas-Phase Proteins: A Special Hydration Site on Gas-Phase BPTI. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9586-9587	16.4	54
66	Hydration of Gas Phase Proteins: Folded +5 and Unfolded +7 Charge States of Cytochrome c. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 847-851	3.4	61
65	Structures of Silicon-Doped Carbon Clusters. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1836-1840	2.8	140
64	High resolution ion mobility measurements for gas phase proteins: correlation between solution phase and gas phase conformations. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 165-166, 497-507		104
63	Ion Mobility Measurements and their Applications to Clusters and Biomolecules 1997 , 32, 577-592		633
62	High-resolution ion mobility studies of sodium chloride nanocrystals. <i>Chemical Physics Letters</i> , 1997 , 267, 186-192	2.5	56
61	Carbon Clusters Containing Two Metal Atoms: Structures, Growth Mechanism, and Fullerene Formation. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1139-1147	16.4	31
60	Denaturation and Refolding of Cytochrome c in Vacuo. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10313-10314	16.4	79
59	An exact hard-spheres scattering model for the mobilities of polyatomic ions. <i>Chemical Physics Letters</i> , 1996 , 261, 86-91	2.5	708
58	Metal-Containing Carbon Clusters: Structures, Isomerization, and Formation of NbC _n ⁺ Clusters. <i>Journal of the American Chemical Society</i> , 1995 , 117, 8841-8850	16.4	43
57	Drift Tube Studies of Large Carbon Clusters: New Isomers and the Mechanism of Giant Fullerene Formation. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10317-10324	16.4	29
56	Networked and Endohedral La ₂ C _n ⁺ (n = 28-100) Metallofullerenes. <i>Journal of the American Chemical Society</i> , 1995 , 117, 6404-6405	16.4	22
55	Drift Tube Studies of Atomic Clusters. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11-21		176
54	Naked Protein Conformations: Cytochrome c in the Gas Phase. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10141-10142	16.4	429
53	Small carbon rings: dissociation, isomerization, and a simple model based on strain. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 138, 17-31		68
52	Gas-phase self-assembly of endohedral metallofullerenes. <i>Nature</i> , 1994 , 367, 718-720	50.4	42
51	Physical and chemical evidence for metallofullerenes with metal atoms as part of the cage. <i>Nature</i> , 1994 , 372, 248-250	50.4	107

50	Bonding of Metals to Carbon Rings: LaC _n ⁺ Isomers with La ⁺ Inserted and Attached to the Ring. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5971-5972	16.4	31
49	Mobilities of metal cluster ions: Aluminum and the electronic shell model. <i>Journal of Chemical Physics</i> , 1993 , 98, 2399-2407	3.9	55
48	Annealing and dissociation of carbon rings. <i>Journal of Chemical Physics</i> , 1993 , 99, 1785-1795	3.9	90
47	Mobilities of silicon cluster ions: The reactivity of silicon sausages and spheres. <i>Journal of Chemical Physics</i> , 1992 , 96, 9180-9190	3.9	174
46	Properties of deposited size-selected clusters: Reactivity of deposited silicon clusters. <i>Journal of Chemical Physics</i> , 1992 , 97, 8312-8321	3.9	46
45	Annealing of silicon clusters. <i>Journal of the American Chemical Society</i> , 1992 , 114, 459-464	16.4	69
44	Techniques used to study the chemistry of gas phase elemental clusters. <i>Journal of Cluster Science</i> , 1991 , 2, 137-181	3	6
43	Reactions of silicon cluster ions, Si _n ⁺ (n=10-85), with water. <i>Journal of Chemical Physics</i> , 1991 , 94, 2631-2639	3.9	65
42	Interaction of silicon cluster ions with ammonia: Annealing, equilibria, high temperature kinetics, and saturation studies. <i>Journal of Chemical Physics</i> , 1991 , 94, 3607-3618	3.9	57
41	Silicon cluster ions: Evidence for a structural transition. <i>Physical Review Letters</i> , 1991 , 67, 2994-2997	7.4	339
40	Dissociation of large silicon clusters: the approach to bulk behavior. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 9181-9185		177
39	Optical spectroscopy of metal clusters: Cu ₄ ⁺ . <i>Chemical Physics Letters</i> , 1990 , 166, 116-122	2.5	54
38	Photodissociation of copper clusters, Cu _n ⁺ (n = 3-8), in the 370-10 nm wavelength region. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 102, 161-181		32
37	Studies of the chemistry of large semiconductor cluster ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 100, 625-646		5
36	Interaction of silicon cluster ions with ammonia: The kinetics. <i>Journal of Chemical Physics</i> , 1990 , 93, 5709-5718	3.9	41
35	Photodissociation of metal cluster ions. Dissociation energies and optical spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 2537		31
34	Chemistry of semiconductor clusters: reactions of Si _n ⁺ (n = 11-50) with ethylene show evidence for numerous structural isomers. <i>Journal of the American Chemical Society</i> , 1990 , 112, 3768-3773	16.4	48
33	Chemistry of semiconductor clusters: Large silicon clusters are much less reactive towards oxygen than the bulk. <i>Journal of Chemical Physics</i> , 1990 , 93, 224-229	3.9	86

32	Photodissociation kinetics of aluminum cluster ions: Determination of cluster dissociation energies. <i>Journal of Chemical Physics</i> , 1989 , 91, 2912-2921	3.9	98
31	Chemistry of semiconductor clusters. A survey of the reactions of Si ₂₅ ⁺ using low-energy ion beam techniques. <i>Journal of the American Chemical Society</i> , 1989 , 111, 1979-1986	16.4	17
30	Surface chemistry on metal clusters: Observation of multiple structures for C ₂ H ₄ chemisorbed on aluminum clusters. <i>Chemical Physics Letters</i> , 1988 , 149, 433-438	2.5	8
29	Activation barriers for chemisorption of deuterium on aluminum cluster ions: Influence of oxygen preadsorption. <i>Chemical Physics Letters</i> , 1988 , 144, 311-316	2.5	14
28	Chemisorption on size-selected metal clusters: activation barriers and chemical reactions for deuterium on aluminum cluster ions. <i>Journal of the American Chemical Society</i> , 1988 , 110, 70-78	16.4	46
27	Chemisorption on the microsurface of metal clusters: activation barriers and chemical reactions for carbon monoxide, nitrogen, oxygen, and methane on aluminum cluster. <i>Journal of the American Chemical Society</i> , 1988 , 110, 6706-6716	16.4	22
26	Collision induced dissociation of aluminum cluster ions with chemisorbed oxygen, Al _n O _m (n=3-6, m=1,2): Influence of electronic structure on stability. <i>Journal of Chemical Physics</i> , 1987 , 87, 1610-1619	3.9	42
25	A detailed study of the reactions between size selected aluminum cluster ions, Al _n (n=3-6), and oxygen. <i>Journal of Chemical Physics</i> , 1987 , 87, 5728-5738	3.9	116
24	Collision induced dissociation of metal cluster ions: Bare aluminum clusters, Al _n (n=3-6). <i>Journal of Chemical Physics</i> , 1987 , 86, 3876-3885	3.9	219
23	The reactions of mass selected aluminum cluster ions, Al _n (n=4-5), with oxygen. <i>Journal of Chemical Physics</i> , 1986 , 85, 5373-5375	3.9	53
22	A laser ion beam study of the photodissociation dynamics of the (CO) ₂ +3 cluster. <i>Journal of Chemical Physics</i> , 1986 , 84, 4882-4887	3.9	21
21	Fragmentation dynamics and energy disposal in photodissociation of (N ₂ O) ₂ ⁺ in the 458-60 nm wavelength range. <i>Chemical Physics</i> , 1985 , 95, 469-472	2.3	5
20	The formation and reactivity of HOC ⁺ : Interstellar implications. <i>Journal of Chemical Physics</i> , 1985 , 83, 1121-1131	3.9	51
19	Photodissociation of the SO ₂ ?SO ₂ +2 dimer in the visible region of the spectrum: Product relative kinetic energy distributions and product angular distributions. <i>Journal of Chemical Physics</i> , 1985 , 82, 1832-1840	3.9	29
18	Kinetic isotope effect in gas-phase base-induced elimination reactions. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2818-2820	16.4	27
17	Photodissociation of the dimanganese ion: Mn ₂ ⁺ : a route to the energetics of metal clusters. <i>Journal of the American Chemical Society</i> , 1985 , 107, 7339-7344	16.4	54
16	The dynamics of photodissociation of cluster ions. II. Photodissociation of the (NO) ₃ ⁺ cluster in the visible wavelength range. <i>Journal of Chemical Physics</i> , 1984 , 81, 222-230	3.9	31
15	Energy disposal in photodissociation from magic angle measurements with a crossed high-energy ion beam and laser beam: Photodissociation dynamics of the (N ₂) ₂ ⁺ cluster in the 458-14 nm range. <i>Journal of Chemical Physics</i> , 1984 , 81, 214-221	3.9	68

14	Charge transfer half-collisions: Photodissociation of the Kr^+O_2 cluster ion with resolution of the O_2 product vibrational states. <i>Journal of Chemical Physics</i> , 1984 , 81, 4369-4379	3.9	65
13	Ion-molecule association reactions: A study of the temperature dependence of the reaction $\text{N}_2^+ + \text{N}_2 + \text{M} \rightarrow \text{N}_4^+ + \text{M}$ for $\text{M} = \text{N}_2, \text{Ne}, \text{and He}$: Experiment and theory. <i>Journal of Chemical Physics</i> , 1984 , 81, 288-297	3.9	50
12	On the structure and photodissociation of cluster ions in the gas phase. $(\text{N}_2)^+$, $(\text{O}_2)^+$ and $(\text{NO})_2^+$. <i>Chemical Physics Letters</i> , 1983 , 102, 335-339	2.5	6
11	Kinetics of ion-molecule collision complexes in the gas phase. Experiment and theory. <i>Faraday Discussions of the Chemical Society</i> , 1983 , 75, 57-76		41
10	Ion-molecule association reactions: reaction sequences initiated by protonated methanol (MeOH_2^+) in methanol; experiment and theory. <i>Journal of the American Chemical Society</i> , 1983 , 105, 7024-7033	16.4	66
9	Unimolecular and bimolecular reactions in the C_4H_6^+ system: Experiment and theory. <i>Journal of Chemical Physics</i> , 1983 , 78, 3756-3766	3.9	30
8	Investigation of the dynamics and energy disposal in the photodissociation of small ion clusters using a high-energy ion beam crossed with a laser beam: Photodissociation of $(\text{NO})_2^+$ in the 488-600 nm range. <i>Journal of Chemical Physics</i> , 1983 , 79, 6086-6096	3.9	49
7	On the formation of HCO^+ and HOC^+ from the reaction between H_3^+ and CO . <i>Journal of Chemical Physics</i> , 1982 , 77, 5847-5848	3.9	37
6	The fragmentation of metastable NH_3^+ ions and isotopic analogs: an example of tunneling through a rotational barrier. <i>Chemical Physics Letters</i> , 1982 , 92, 653-658	2.5	5
5	Mechanism of the metastable reaction $\text{H}_2\text{S}^+ \rightarrow \text{S}^+ + \text{H}_2$; product energy distributions and their dependence on temperature. <i>Chemical Physics</i> , 1982 , 65, 19-28	2.3	24
4	A crossed beam study of the reaction $\text{CO}^+ + \text{NO} \rightarrow (\text{NCO})^+ + \text{O}$. <i>Molecular Physics</i> , 1981 , 42, 97-107	1.7	
3	A crossed beam study of the reaction $\text{CO}^+ + \text{NO} \rightarrow \text{CO}_2^+ + \text{N}$. <i>Molecular Physics</i> , 1980 , 40, 1197-1207	1.7	1
2	A crossed beam study of the reaction of CO^+ with O_2 . <i>Molecular Physics</i> , 1980 , 39, 787-798	1.7	6
1	Core Protein-Directed Antivirals and Importin β Can Synergistically Disrupt HBV Capsids		1