

Gert von Helden

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215
papers

13,029
citations

65
h-index

106
g-index

229
ext. papers

13,740
ext. citations

7.1
avg. IF

6.1
L-index

#	Paper	IF	Citations
215	Carbon cluster cations with up to 84 atoms: structures, formation mechanism, and reactivity. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 8182-8192		516
214	Gas-phase infrared multiple photon dissociation spectroscopy of mass-selected molecular ions. <i>International Journal of Mass Spectrometry</i> , 2006 , 254, 1-19	1.9	449
213	Structures of carbon cluster ions from 3 to 60 atoms: Linears to rings to fullerenes. <i>Journal of Chemical Physics</i> , 1991 , 95, 3835-3837	3.9	438
212	Experimental evidence for the formation of fullerenes by collisional heating of carbon rings in the gas phase. <i>Nature</i> , 1993 , 363, 60-63	50.4	361
211	Gas-Phase Conformation of Biological Molecules: Bradykinin. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8355-8364	16.4	349
210	Conformation of macromolecules in the gas phase: use of matrix-assisted laser desorption methods in ion chromatography. <i>Science</i> , 1995 , 267, 1483-5	33.3	341
209	Effect of the long-range potential on ion mobility measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 275-282	3.5	279
208	Free electron laser-Fourier transform ion cyclotron resonance mass spectrometry facility for obtaining infrared multiphoton dissociation spectra of gaseous ions. <i>Review of Scientific Instruments</i> , 2005 , 76, 023103	1.7	273
207	Gas-phase ion chromatography: transition metal state selection and carbon cluster formation. <i>Science</i> , 1993 , 260, 1446-51	33.3	263
206	Infrared spectroscopy of phenylalanine Ag(I) and Zn(II) complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 517-25	16.4	226
205	Laboratory Infrared Spectroscopy of Cationic Polycyclic Aromatic Hydrocarbon Molecules. <i>Astrophysical Journal</i> , 2003 , 591, 968-985	4.7	216
204	Inclusion of a MALDI ion source in the ion chromatography technique: conformational information on polymer and biomolecular ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 146-147, 349-364		189
203	Gas-Phase Infrared Photodissociation Spectroscopy of Cationic Polyaromatic Hydrocarbons. <i>Astrophysical Journal</i> , 2000 , 542, 404-410	4.7	160
202	Gold cluster carbonyls: saturated adsorption of CO on gold cluster cations, vibrational spectroscopy, and implications for their structures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8416-23	16.4	157
201	Charge-state resolved mid-infrared spectroscopy of a gas-phase protein. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1345-8	3.6	154
200	Isomers of Small Carbon Cluster Anions: Linear Chains with up to 20 Atoms. <i>Science</i> , 1993 , 259, 1300-2	33.3	153
199	Structure determination of isolated metal clusters via far-infrared spectroscopy. <i>Physical Review Letters</i> , 2004 , 93, 023401	7.4	148

198	Vibrational spectroscopy and density functional theory of transition-metal ion-benzene and dibenzene complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10981-91	16.4	144
197	Phase shift cavity ring down absorption spectroscopy. <i>Chemical Physics Letters</i> , 1996 , 262, 105-109	2.5	141
196	Infrared fingerprint spectroscopy and theoretical studies of potassium ion tagged amino acids and peptides in the gas phase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8571-9	16.4	137
195	Mass-selected infrared photodissociation spectroscopy of V4O10+. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1101-1104	3.6	135
194	Protomers of benzocaine: solvent and permittivity dependence. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4236-42	16.4	132
193	An infrared spectroscopy approach to follow β -sheet formation in peptide amyloid assemblies. <i>Nature Chemistry</i> , 2017 , 9, 39-44	17.6	127
192	Do small fullerenes exist only on the computer? Experimental results on C ₇₀ and C ₇₄ . <i>Chemical Physics Letters</i> , 1993 , 204, 15-22	2.5	125
191	Conformations of alkali ion cationized polyethers in the gas phase: polyethylene glycol and bis[(benzo-15-crown-5)-15-ylmethyl] pimelate. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997 , 165-166, 377-390		124
190	Titanium carbide nanocrystals in circumstellar environments. <i>Science</i> , 2000 , 288, 313-6	33.3	119
189	Stepwise solvation of an amino acid: the appearance of zwitterionic structures. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7309-16	2.8	118
188	Fingerprint IR spectroscopy to probe amino acid conformations in the gas phase. <i>Physical Review Letters</i> , 2003 , 91, 203003	7.4	117
187	Carbon cluster anions: structure and growth from C ₅ ⁻ to C ₆₂ ⁻ . <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 149-150, 217-229		117
186	On the T-shaped structures of the benzene dimer. <i>Chemical Physics Letters</i> , 2007 , 437, 277-283	2.5	116
185	Resonant Ionization Using IR Light: A New Tool To Study the Spectroscopy and Dynamics of Gas-Phase Molecules and Clusters. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1671-1688	2.8	111
184	Gold cluster carbonyls: vibrational spectroscopy of the anions and the effects of cluster size, charge, and coverage on the CO stretching frequency. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23935-40	3.4	103
183	Size and Charge Effects on the Binding of CO to Small Isolated Rhodium Clusters. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14591-14598	3.4	100
182	Probing the vibrations of shared, OH+O-bound protons in the gas phase. <i>ChemPhysChem</i> , 2004 , 5, 740-3	3.2	98
181	Infrared spectra of gas-phase V(+)-(benzene) and V(+)-(benzene) ₂ complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1562-3	16.4	97

180	Infrared spectroscopy of jet-cooled neutral and ionized aniline. <i>Journal of Chemical Physics</i> , 1999 , 110, 2010-2015	3.9	97
179	Vibrational Spectroscopy of Gas-Phase Metal-Carbide Clusters and Nanocrystals. <i>Physical Review Letters</i> , 1999 , 83, 4983-4986	7.4	97
178	Size and charge effects on the binding of CO to late transition metal clusters. <i>Journal of Chemical Physics</i> , 2006 , 124, 194305	3.9	95
177	Folding structures of isolated peptides as revealed by gas-phase mid-infrared spectroscopy. <i>ChemPhysChem</i> , 2005 , 6, 120-8	3.2	95
176	Infrared spectroscopy of niobium oxide cluster cations in a molecular beam: identifying the cluster structures. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3659-67	16.4	94
175	Infrared spectroscopy of gas-phase Cr ⁺ coordination complexes: determination of binding sites and electronic states. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7243-54	16.4	92
174	The site of Cr ⁺ attachment to gas-phase aniline from infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 724-5	16.4	90
173	Annealing of carbon cluster cations: rings to rings and rings to fullerenes. <i>Journal of the American Chemical Society</i> , 1993 , 115, 4363-4364	16.4	89
172	Glycan Fingerprinting via Cold-Ion Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11248-11251	16.4	88
171	Selector for structural isomers of neutral molecules. <i>Physical Review Letters</i> , 2008 , 100, 133003	7.4	86
170	Retention of Native Protein Structures in the Absence of Solvent: A Coupled Ion Mobility and Spectroscopic Study. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14173-14176	16.4	85
169	Gas Phase Conformations of Li ⁺ , Na ⁺ , K ⁺ , and Cs ⁺ Complexed with 18-Crown-6. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10159-10160	16.4	82
168	Photodissociation of conformer-selected ubiquitin ions reveals site-specific cis/trans isomerization of proline peptide bonds. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10308-14	16.4	80
167	Hydrated complexes of tryptophan: ion dip infrared spectroscopy in the molecular fingerprint region, 1000-1000 cm ⁻¹ . <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 4546-4552	3.6	77
166	Gas Phase Infrared Spectroscopy of Cationic Indane, Acenaphthene, Fluorene, and Fluoranthene. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8302-8309	2.8	75
165	The new IR and THz FEL facility at the Fritz Haber Institute in Berlin 2015 ,		73
164	Gas-phase IR spectroscopy of anionic iron carbonyl clusters. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14726-7	16.4	73
163	Secondary Structure of Ac-Alan-LysH ⁺ Polyalanine Peptides (n = 5,10,15) in Vacuo: Helical or Not?. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3465-3470	6.4	72

162	Evidence from ion chromatography experiments that met-cars are hollow cage clusters. <i>Science</i> , 1995 , 267, 999-1001	33.3	70
161	Secondary structures of short peptide chains in the gas phase: double resonance spectroscopy of protected dipeptides. <i>Journal of Chemical Physics</i> , 2005 , 122, 54317	3.9	69
160	Structure determination of small vanadium clusters by density-functional theory in comparison with experimental far-infrared spectra. <i>Journal of Chemical Physics</i> , 2005 , 122, 124302	3.9	69
159	Probing the glycosidic linkage: UV and IR ion-dip spectroscopy of a lactoside. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5709-14	16.4	68
158	The infrared spectrum of the benzene _n Ar cation. <i>Journal of Chemical Physics</i> , 1999 , 111, 10750-10753	3.9	68
157	Catching proteins in liquid helium droplets. <i>Physical Review Letters</i> , 2010 , 105, 133402	7.4	67
156	Cold collisions catalyse conformational conversion. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 3786-9	3.6	67
155	The mid-IR absorption spectrum of gas-phase clusters of the nucleobases guanine and cytosine. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2810-2815	3.6	67
154	Far-Infrared spectroscopy of isolated transition metal clusters. <i>European Physical Journal D</i> , 2005 , 34, 83-88	1.3	67
153	Protein structure in the gas phase: the influence of side-chain microsolvation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1177-80	16.4	66
152	Infrared Resonance Enhanced Multiphoton Ionization of Fullerenes. <i>Physical Review Letters</i> , 1997 , 79, 5234-5237	7.4	66
151	Vibration-rotation-tunneling states of the benzene dimer: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8219-40	3.6	65
150	The infrared absorption spectrum of the gas phase neutral benzoic acid monomer and dimer. <i>Journal of Chemical Physics</i> , 2003 , 119, 11180-11185	3.9	64
149	Infrared Spectroscopy of Jet-cooled Cationic Polyaromatic Hydrocarbons: Naphthalene[TSUP] ⁺ [/TSUP]. <i>Astrophysical Journal</i> , 1999 , 520, L75-L78	4.7	64
148	An experimental value for the B(1u) C-H stretch mode in benzene. <i>Journal of Chemical Physics</i> , 2006 , 124, 171101	3.9	63
147	Mid-infrared spectroscopy of protected peptides in the gas phase: a probe of the backbone conformation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3592-7	16.4	62
146	Gas-Phase Infrared Spectrum of the Coronene Cation. <i>Astrophysical Journal</i> , 2001 , 560, L99-L103	4.7	60
145	Infrared spectroscopy of gas-phase zirconium oxide clusters. <i>Chemical Physics</i> , 2000 , 262, 31-39	2.3	60

144	The far-infrared spectra of neutral and cationic niobium clusters: Nb ₅ O _{0/+} to Nb ₉ O ₀₊ . <i>Journal of Chemical Physics</i> , 2007 , 127, 234306	3.9	59
143	Spectroscopic evidence for gas-phase formation of successive beta-turns in a three-residue peptide chain. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1388-9	16.4	59
142	Structure determination of gas phase aluminum oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2515	3.6	59
141	Anharmonic midinfrared vibrational spectra of benzoic acid monomer and dimer. <i>Journal of Chemical Physics</i> , 2005 , 123, 014305	3.9	58
140	The structures of vanadium oxide cluster-ethene complexes. A combined IR multiple photon dissociation spectroscopy and DFT calculation study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15716-7	16.4	57
139	Shedding New Light on Thermionic Electron Emission of Fullerenes. <i>Physical Review Letters</i> , 1998 , 81, 1825-1828	7.4	57
138	Amide-I and -II vibrations of the cyclic beta-sheet model peptide gramicidin S in the gas phase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2085-93	16.4	56
137	The gas-phase dipeptide analogue acetyl-phenylalanyl-amide: a model for the study of side chain/backbone interactions in proteins. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5281-8	2.8	56
136	Cobalt-hydrogen (Co ⁺ .n(H ₂) _n) clusters: binding energies and molecular parameters. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 52-58		56
135	Infrared multiple photon dissociation spectroscopy of transition metal oxide cluster cations. <i>European Physical Journal D</i> , 2003 , 24, 69-72	1.3	55
134	The structures of small iron-carbon cluster anions. Linear to planar to three-dimensional. <i>Chemical Physics Letters</i> , 1994 , 227, 601-608	2.5	54
133	Structure of the benzene dimer--governed by dynamics. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5180-3	16.4	52
132	Experimental study of gas phase titanium and aluminum oxide clusters. <i>Astronomy and Astrophysics</i> , 2004 , 420, 547-552	5.1	52
131	Infrared multiple photon dynamics and spectroscopy of cationic PABA and its dehydroxylated fragment ion. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 710	3.6	52
130	Charge-Induced Unzipping of Isolated Proteins to a Defined Secondary Structure. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3295-9	16.4	52
129	Intensity-resolved IR multiple photon ionization and fragmentation of C ₆₀ . <i>Journal of Chemical Physics</i> , 2010 , 132, 074305	3.9	50
128	Rovibrational Motion of CO in Solid C ₆₀ . <i>Physical Review Letters</i> , 1997 , 79, 1138-1141	7.4	50
127	Vibrational spectroscopy of CO in gas-phase rhodium cluster-CO complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11184-5	16.4	50

126	Vibrational spectroscopy of a non-aromatic amino acid-based model peptide: identification of the gamma-turn motif of the peptide backbone. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 13-5	3.6	49
125	Isomer selective infrared spectroscopy of neutral metal clusters. <i>Journal of Chemical Physics</i> , 2005 , 122, 091105	3.9	49
124	Cavity ring down spectroscopy on solid C60. <i>Journal of Chemical Physics</i> , 1999 , 110, 2732-2733	3.9	49
123	Mid-IR spectra of different conformers of phenylalanine in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1248-56	3.6	48
122	The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7554-7560	16.4	47
121	The impact of environment and resonance effects on the site of protonation of aminobenzoic acid derivatives. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25474-25482	3.6	47
120	Probing a strong hydrogen bond with infrared spectroscopy: Vibrational predissociation of BrHBr \cdot Ar. <i>Journal of Chemical Physics</i> , 2003 , 118, 5275-5278	3.9	47
119	IR spectroscopy of protonated leu-enkephalin and its 18-crown-6 complex embedded in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21902-11	3.6	46
118	Infrared spectrum and structure of the homochiral serine octamer-dichloride complex. <i>Nature Chemistry</i> , 2017 , 9, 1263-1268	17.6	44
117	Mass selective infrared spectroscopy using a free electron laser. <i>Chemical Physics Letters</i> , 1996 , 258, 118-122	2.5	44
116	Remote Participation during Glycosylation Reactions of Galactose Building Blocks: Direct Evidence from Cryogenic Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6166-6171	16.4	43
115	The mid-IR spectra of 9-ethyl guanine, guanosine, and 2-deoxyguanosine. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7529-36	2.8	43
114	Exploring the conformational preferences of 20-residue peptides in isolation: Ac-Ala19-Lys + H(+) vs. Ac-Lys-Ala19 + H(+) and the current reach of DFT. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7373-85	3.6	42
113	Vibrational and Electronic Spectroscopy of Acenaphthylene and Its Cation. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 782-793	2.8	42
112	Infrared photodissociation spectroscopy of benzene \cdot Ne, Ar complex cations. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 24-33	3.6	40
111	Rotational order in CO-intercalated C60 crystals. <i>Physical Review B</i> , 1998 , 57, 6321-6324	3.3	40
110	Photoexcitation of mass/charge selected hemin $^+$, caught in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13370-7	3.6	39
109	Analyzing the higher order structure of proteins with conformer-selective ultraviolet photodissociation. <i>Proteomics</i> , 2015 , 15, 2804-12	4.8	38

108	Direct observation of size dependent activation of NO on gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3906-9	3.6	38
107	Unravelling the structure of glycosyl cations via cold-ion infrared spectroscopy. <i>Nature Communications</i> , 2018 , 9, 4174	17.4	38
106	Infrared resonance-enhanced multiphoton ionization spectroscopy of magnesium oxide clusters. <i>Journal of Chemical Physics</i> , 2002 , 116, 2400-2406	3.9	37
105	Fucose Migration in Intact Protonated Glycan Ions: A Universal Phenomenon in Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7440-7443	16.4	36
104	The infrared spectrum of Al+Benzene in the gas phase. <i>Chemical Physics Letters</i> , 2002 , 364, 345-351	2.5	35
103	Gas phase infrared spectroscopy of cluster anions as a function of size: The effect of solvation on hydrogen-bonding in Br _n (HBr) _{1,2,3} clusters. <i>Journal of Chemical Physics</i> , 2002 , 117, 6493-6499	3.9	35
102	Structures and energies of small carbon clusters: what experiment and theory have to say about C+8, C+9 and C+10. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 138, 33-47		35
101	Thermal bimolecular reactions of size selected transition metal cluster ions: Nb+n + O ₂ , n = 1-8. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991 , 109, 49-73		35
100	Determination of potential energy curves for ground and metastable excited state transition metal ions interacting with helium and neon using electronic state chromatography. <i>Journal of Chemical Physics</i> , 1992 , 96, 6591-6605	3.9	35
99	Vibrational spectroscopy of gas-phase neutral and cationic phenanthrene in their electronic groundstates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57, 717-35	4.4	34
98	NFGAIL Amyloid Oligomers: The Onset of Beta-Sheet Formation and the Mechanism for Fibril Formation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 244-249	16.4	34
97	Internal proton transfer leading to stable zwitterionic structures in a neutral isolated peptide. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2332-5	16.4	33
96	C+7 is cyclic: experimental evidence. <i>Chemical Physics Letters</i> , 1993 , 212, 241-246	2.5	33
95	How cations change peptide structure. <i>Chemistry - A European Journal</i> , 2013 , 19, 11224-34	4.8	32
94	The lowest energy structures of C+7, C7 and C ₇ ⁻ . An ab initio study. <i>Chemical Physics Letters</i> , 1993 , 212, 247-252	2.5	32
93	Ferrimagnetic cage-like Fe ₄ O ₆ cluster: Structure determination from infrared dissociation spectroscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	31
92	Conformations and vibrational spectra of a model tripeptide: change of secondary structure upon micro-solvation. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3415-25	3.6	30
91	IR multiphoton depletion spectroscopy of metal cluster- π ligand complexes. <i>Chemical Physics Letters</i> , 2002 , 357, 195-203	2.5	30

90	Confining CO molecules in stable orbits. <i>Chemical Physics Letters</i> , 1997 , 270, 304-308	2.5	29
89	Chapter 8 Vibrational spectroscopy of gas-phase clusters and complexes. <i>Chemical Physics of Solid Surfaces</i> , 2007 , 327-375		29
88	The Structure of Acetaldehyde in Its First Excited Singlet State: Experimental and Theoretical Investigations. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 1791-1795		29
87	Structures of C _n H _x ⁺ Molecules for n ≥ 2 and x ≤ 5: Emergence of PAHs and Effects of Dangling Bonds on Conformation. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 2096-2102	2.8	28
86	Excitation of C ₆₀ using a chirped free electron laser. <i>Optics Express</i> , 1999 , 4, 46-52	3.3	28
85	IR-REMPI of vanadium-carbide nanocrystals: Ideal versus truncated lattices. <i>Chemical Physics Letters</i> , 2001 , 333, 350-357	2.5	27
84	Ion mobility-mass spectrometry and orthogonal gas-phase techniques to study amyloid formation and inhibition. <i>Current Opinion in Structural Biology</i> , 2017 , 46, 7-15	8.1	26
83	Unraveling the internal dynamics of the benzene dimer: a combined theoretical and microwave spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10207-23	3.6	26
82	Infrared Photodissociation Spectroscopy of the Benzoic Acid Radical Cation in a Quadrupole Trap. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 8273-8278	2.8	25
81	Infrared spectroscopy of neutral C ₇ H ₇ isomers: benzyl and tropylium. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15714-5	16.4	25
80	Infrared spectroscopy of water adsorption on vanadium cluster cations (V _x ⁺ ; x=3-18). <i>Chemical Physics Letters</i> , 2004 , 392, 409-414	2.5	23
79	Structure determination of gas-phase niobium and tantalum carbide nanocrystals via infrared spectroscopy. <i>Physical Review Letters</i> , 2002 , 89, 013401	7.4	23
78	Structures of Carbon Clusters from Polychlorinated Graphitic Precursors: Investigations of C ₁₂ Cl _x ⁺ (x = 0-10) Using the Ion Chromatography Method. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7707-7714		23
77	Online monitoring the isomerization of an azobenzene-based dendritic bolaamphiphile using ion mobility-mass spectrometry. <i>Chemical Communications</i> , 2015 , 51, 8801-4	5.8	22
76	Stacking Geometries of Early Protoporphyrin IX Aggregates Revealed by Gas-Phase Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16315-16321	16.4	22
75	Infrared spectroscopy of Ti ₈ C ₁₂ ⁺ 'met-car' cations. <i>Chemical Physics Letters</i> , 2001 , 349, 220-226	2.5	22
74	Dynamics of CO Molecules in Solid C ₆₀ as a Function of Cavity Size. <i>Physical Review Letters</i> , 1998 , 80, 4899-4902	7.4	22
73	Ground-State Structure of the Proton-Bound Formate Dimer by Cold-Ion Infrared Action Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10615-10619	16.4	21

72	An infrared spectroscopic study of protonated and cationic indazole. <i>International Journal of Mass Spectrometry</i> , 2006 , 249-250, 199-205	1.9	21
71	The infrared spectrum of the benzoyl cation. <i>Chemical Physics Letters</i> , 2003 , 367, 576-580	2.5	21
70	Infrared resonance enhanced multi-photon ionization spectroscopy of C84. <i>Chemical Physics Letters</i> , 1999 , 299, 171-176	2.5	20
69	Ozone generation in the 214-nm photolysis of oxygen at 25.degree.C. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 4956-4960		20
68	An Intrinsic Hydrophobicity Scale for Amino Acids and Its Application to Fluorinated Compounds. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8216-8220	16.4	18
67	Vibrational Spectroscopy of Fluoroformate, FCO, Trapped in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2305-2310	6.4	17
66	Gas-phase IR spectra of intact Helical coiled coil protein complexes. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 161-168	1.9	17
65	Resonant infrared laser-induced desorption of methane condensed on NaCl(100): isotope mixture experiments. <i>Journal of Chemical Physics</i> , 2006 , 124, 044704	3.9	17
64	Observation of small doubly charged niobium clusters. <i>Chemical Physics Letters</i> , 1991 , 179, 531-538	2.5	17
63	Gas-phase microsolvation of ubiquitin: investigation of crown ether complexation sites using ion mobility-mass spectrometry. <i>Analyst, The</i> , 2016 , 141, 5502-10	5	16
62	A study on the structure and vibrations of diphenylamine by resonance-enhanced multiphoton ionization spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 1996 , 105, 8556-8568	3.9	16
61	IR action spectroscopy of glycosaminoglycan oligosaccharides. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 533-537	4.4	16
60	Unravelling the structural complexity of glycolipids with cryogenic infrared spectroscopy. <i>Nature Communications</i> , 2021 , 12, 1201	17.4	16
59	IR spectroscopy of gas-phase C60-. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6862-6	3.6	14
58	Ladungsinduziertes Entwinden isolierter Proteine zu einer definierten Sekundärstruktur. <i>Angewandte Chemie</i> , 2016 , 128, 3356-3360	3.6	14
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