

Gert von Helden

List of Publications by Year in descending order

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221
papers

14,476
citations

13098

68
h-index

22829

112
g-index

229
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229
docs citations

229
times ranked

7065
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon cluster cations with up to 84 atoms: structures, formation mechanism, and reactivity. <i>The Journal of Physical Chemistry</i> , 1993, 97, 8182-8192.	2.9	556
2	Gas-phase infrared multiple photon dissociation spectroscopy of mass-selected molecular ions. <i>International Journal of Mass Spectrometry</i> , 2006, 254, 1-19.	1.5	488
3	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.	3.0	477
4	Experimental evidence for the formation of fullerenes by collisional heating of carbon rings in the gas phase. <i>Nature</i> , 1993, 363, 60-63.	27.8	395
5	Gas-Phase Conformation of Biological Molecules: Bradykinin. <i>Journal of the American Chemical Society</i> , 1996, 118, 8355-8364.	13.7	364
6	Conformation of Macromolecules in the Gas Phase: Use of Matrix-Assisted Laser Desorption Methods in Ion Chromatography. <i>Science</i> , 1995, 267, 1483-1485.	12.6	356
7	Effect of the long-range potential on ion mobility measurements. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 275-282.	2.8	305
8	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.	1.3	287
9	Gas-Phase Ion Chromatography: Transition Metal State Selection and Carbon Cluster Formation. <i>Science</i> , 1993, 260, 1446-1451.	12.6	276
10	Infrared Spectroscopy of Phenylalanine Ag(I) and Zn(II) Complexes in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2006, 128, 517-525.	13.7	233
11	Laboratory Infrared Spectroscopy of Cationic Polycyclic Aromatic Hydrocarbon Molecules. <i>Astrophysical Journal</i> , 2003, 591, 968-985.	4.5	229
12	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.	1.8	198
13	Phase shift cavity ring down absorption spectroscopy. <i>Chemical Physics Letters</i> , 1996, 262, 105-109.	2.6	172
14	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, 8416-8423.	13.7	172
15	Protomers of Benzocaine: Solvent and Permittivity Dependence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4236-4242.	13.7	172
16	Gas-Phase Infrared Photodissociation Spectroscopy of Cationic Polyaromatic Hydrocarbons. <i>Astrophysical Journal</i> , 2000, 542, 404-410.	4.5	170
17	Isomers of Small Carbon Cluster Anions: Linear Chains with up to 20 Atoms. <i>Science</i> , 1993, 259, 1300-1302.	12.6	169
18	An infrared spectroscopy approach to follow β -sheet formation in peptide amyloid assemblies. <i>Nature Chemistry</i> , 2017, 9, 39-44.	13.6	163

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19	Structure Determination of Isolated Metal Clusters via Far-Infrared Spectroscopy. <i>Physical Review Letters</i> , 2004, 93, 023401.	7.8	161
20	Charge-state resolved mid-infrared spectroscopy of a gas-phase protein. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1345.	2.8	160
21	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, 10981-10991.	13.7	157
22	Do small fullerenes exist only on the computer? Experimental results on C ₂₀ and C ₂₄ . <i>Chemical Physics Letters</i> , 1993, 204, 15-22.	2.6	145
23	Mass-selected infrared photodissociation spectroscopy of V ₄ O ₁₀ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1101-1104.	2.8	145
24	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, 8571-8579.	13.7	141
25	Titanium Carbide Nanocrystals in Circumstellar Environments. <i>Science</i> , 2000, 288, 313-316.	12.6	135
26	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.	1.8	128
27	Fingerprint IR Spectroscopy to Probe Amino Acid Conformations in the Gas Phase. <i>Physical Review Letters</i> , 2003, 91, 203003.	7.8	128
28	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.	1.8	124
29	Stepwise Solvation of an Amino Acid: The Appearance of Zwitterionic Structures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7309-7316.	2.5	123
30	On the T-shaped structures of the benzene dimer. <i>Chemical Physics Letters</i> , 2007, 437, 277-283.	2.6	123
31	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.	2.5	117
32	Glycan Fingerprinting via Cold Ion Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11248-11251.	13.8	116
33	Gold Cluster Carbonyls: A 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, 23935-23940.	2.6	109
34	Size and charge effects on the binding of CO to late transition metal clusters. <i>Journal of Chemical Physics</i> , 2006, 124, 194305.	3.0	108
35	Infrared spectroscopy of jet-cooled neutral and ionized aniline ⁻ Ar. <i>Journal of Chemical Physics</i> , 1999, 110, 2010-2015.	3.0	107
36	Vibrational Spectroscopy of Gas-Phase Metal-Carbide Clusters and Nanocrystals. <i>Physical Review Letters</i> , 1999, 83, 4983-4986.	7.8	107

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37	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.	13.8	106
38	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.	2.6	105
39	Infrared Spectra of Gas-Phase $V^{+}(Benzene)$ and $V^{+}(Benzene)_2$ Complexes. <i>Journal of the American Chemical Society</i> , 2002, 124, 1562-1563.	13.7	104
40	Probing the Vibrations of Shared, OH+O-Bound Protons in the Gas Phase. <i>ChemPhysChem</i> , 2004, 5, 740-743.	2.1	100
41	Folding Structures of Isolated Peptides as Revealed by Gas-Phase Mid-Infrared Spectroscopy. <i>ChemPhysChem</i> , 2005, 6, 120-128.	2.1	100
42	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, 3659-3667.	13.7	98
43	Selector for Structural Isomers of Neutral Molecules. <i>Physical Review Letters</i> , 2008, 100, 133003.	7.8	97
44	Annealing of carbon cluster cations: rings to rings and rings to fullerenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 4363-4364.	13.7	96
45	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, 7243-7254.	13.7	95
46	Shedding New Light on Thermionic Electron Emission of Fullerenes. <i>Physical Review Letters</i> , 1998, 81, 1825-1828.	7.8	94
47	The Site of Cr+Attachment to Gas-Phase Aniline from Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 724-725.	13.7	93
48	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.	13.7	91
49	Photodissociation of Conformer-Selected Ubiquitin Ions Reveals Site-Specific <i>Cis</i> / <i>Trans</i> Isomerization of Proline Peptide Bonds. <i>Journal of the American Chemical Society</i> , 2014, 136, 10308-10314.	13.7	88
50	The new IR and THz FEL facility at the Fritz Haber Institute in Berlin. <i>Proceedings of SPIE</i> , 2015, , .	0.8	86
51	Gas Phase Infrared Spectroscopy of Cationic Indane, Acenaphthene, Fluorene, and Fluoranthene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8302-8309.	2.5	79
52	Gas-Phase IR Spectroscopy of Anionic Iron Carbonyl Clusters. <i>Journal of the American Chemical Society</i> , 2004, 126, 14726-14727.	13.7	79
53	Hydrated complexes of tryptophan: ion dip infrared spectroscopy in the "molecular fingerprint" region, 100-2000 cm^{-1} . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4546-4552.	2.8	78
54	Protein Structure in the Gas Phase: The Influence of Side-Chain Microsolvation. <i>Journal of the American Chemical Society</i> , 2013, 135, 1177-1180.	13.7	77

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55	Infrared Resonance Enhanced Multiphoton Ionization of Fullerenes. <i>Physical Review Letters</i> , 1997, 79, 5234-5237.	7.8	76
56	Secondary Structure of Ac-Ala_{<i>n</i>}-LysH⁺ Polyalanine Peptides (<i>n</i> =) Tj ETQq0 0.0 rgBT /Overlock 1	4.6	76
57	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.	13.8	76
58	Cold collisions catalyse conformational conversion. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3786.	2.8	75
59	Catching Proteins in Liquid Helium Droplets. <i>Physical Review Letters</i> , 2010, 105, 133402.	7.8	75
60	Far-Infrared spectroscopy of isolated transition metal clusters. <i>European Physical Journal D</i> , 2005, 34, 83-88.	1.3	74
61	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.	3.0	74
62	Evidence from Ion Chromatography Experiments That Met-Cars Are Hollow Cage Clusters. <i>Science</i> , 1995, 267, 999-1001.	12.6	73
63	The infrared absorption spectrum of the gas phase neutral benzoic acid monomer and dimer. <i>Journal of Chemical Physics</i> , 2003, 119, 11180-11185.	3.0	73
64	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.	2.8	72
65	Probing the Glycosidic Linkage: UV and IR Ion-Dip Spectroscopy of a Lactoside. <i>Journal of the American Chemical Society</i> , 2004, 126, 5709-5714.	13.7	72
66	Vibration-rotation-tunneling states of the benzene dimer: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8219.	2.8	72
67	Secondary structures of short peptide chains in the gas phase: Double resonance spectroscopy of protected dipeptides. <i>Journal of Chemical Physics</i> , 2005, 122, 054317.	3.0	71
68	The infrared spectrum of the benzene-Ar cation. <i>Journal of Chemical Physics</i> , 1999, 111, 10750-10753.	3.0	70
69	Infrared Spectroscopy of Jet-cooled Cationic Polyaromatic Hydrocarbons: Naphthalene[TSUP]+/[TSUP]. <i>Astrophysical Journal</i> , 1999, 520, L75-L78.	4.5	67
70	The Structure of the Protonated Serine Octamer. <i>Journal of the American Chemical Society</i> , 2018, 140, 7554-7560.	13.7	67
71	An experimental value for the B1u C-H stretch mode in benzene. <i>Journal of Chemical Physics</i> , 2006, 124, 171101.	3.0	66
72	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, 3592-3597.	13.7	66

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73	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.	2.8	66
74	Gas-Phase Infrared Spectrum of the Coronene Cation. <i>Astrophysical Journal</i> , 2001, 560, L99-L103.	4.5	64
75	Structure of the Benzene Dimer Governed by Dynamics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5180-5183.	13.8	64
76	Charge-Induced Unzipping of Isolated Proteins to a Defined Secondary Structure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3295-3299.	13.8	64
77	Spectroscopic Evidence for Gas-Phase Formation of Successive β -Turns in a Three-Residue Peptide Chain. <i>Journal of the American Chemical Society</i> , 2005, 127, 1388-1389.	13.7	63
78	Intensity-resolved IR multiple photon ionization and fragmentation of C ₆₀ . <i>Journal of Chemical Physics</i> , 2010, 132, 074305.	3.0	63
79	Infrared spectroscopy of gas-phase zirconium oxide clusters. <i>Chemical Physics</i> , 2000, 262, 31-39.	1.9	62
80	Amide-I and -II Vibrations of the Cyclic β -Sheet Model Peptide Gramicidin S in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2010, 132, 2085-2093.	13.7	62
81	The far-infrared spectra of neutral and cationic niobium clusters: Nb ₅₀ ⁺ to Nb ₉₀ ⁺ . <i>Journal of Chemical Physics</i> , 2007, 127, 234306.	3.0	61
82	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, 5281-5288.	2.5	60
83	Anharmonic midinfrared vibrational spectra of benzoic acid monomer and dimer. <i>Journal of Chemical Physics</i> , 2005, 123, 014305.	3.0	60
84	Unravelling the structure of glycosyl cations via cold-ion infrared spectroscopy. <i>Nature Communications</i> , 2018, 9, 4174.	12.8	60
85	Cobalt-hydrogen (Co ⁺ .(H ₂) _n) clusters: binding energies and molecular parameters. <i>The Journal of Physical Chemistry</i> , 1993, 97, 52-58.	2.9	59
86	The structures of small iron-carbon cluster anions. Linear to planar to three-dimensional. <i>Chemical Physics Letters</i> , 1994, 227, 601-608.	2.6	59
87	Infrared multiple photon dissociation spectroscopy of transition metal oxide cluster cations. <i>European Physical Journal D</i> , 2003, 24, 69-72.	1.3	59
88	Structure determination of gas phase aluminum oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2515.	2.8	59
89	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, 15716-15717.	13.7	57
90	Infrared multiple photon dynamics and spectroscopy of cationic PABA and its dehydroxylated fragment ion. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 710.	2.8	57

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91	Cavity ring down spectroscopy on solid C60. <i>Journal of Chemical Physics</i> , 1999, 110, 2732-2733.	3.0	56
92	Infrared spectrum and structure of the homochiral serine octamerâ€“dichloride complex. <i>Nature Chemistry</i> , 2017, 9, 1263-1268.	13.6	56
93	Experimental study of gas phase titanium and aluminum oxide clusters. <i>Astronomy and Astrophysics</i> , 2004, 420, 547-552.	5.1	54
94	Vibrational Spectroscopy of CO in Gas-Phase Rhodium Clusterâˆ“CO Complexes. <i>Journal of the American Chemical Society</i> , 2003, 125, 11184-11185.	13.7	53
95	Isomer selective infrared spectroscopy of neutral metal clusters. <i>Journal of Chemical Physics</i> , 2005, 122, 091105.	3.0	53
96	Mid-IR spectra of different conformers of phenylalanine in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1248-1256.	2.8	53
97	Rovibrational Motion of CO in Solid C60. <i>Physical Review Letters</i> , 1997, 79, 1138-1141.	7.8	51
98	Fucose Migration in Intact Protonated Glycan Ions: A Universal Phenomenon in Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7440-7443.	13.8	51
99	Vibrational spectroscopy of a non-aromatic amino acid-based model peptide: identification of the β -turn motif of the peptide backbone. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 13-15.	2.8	50
100	IR spectroscopy of protonated leu-enkephalin and its 18-crown-6 complex embedded in helium droplets. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21902-21911.	2.8	49
101	Probing a strong hydrogen bond with infrared spectroscopy: Vibrational predissociation of BrHBrâˆ“Ar. <i>Journal of Chemical Physics</i> , 2003, 118, 5275-5278.	3.0	48
102	Exploring the conformational preferences of 20-residue peptides in isolation: Ac-Ala ₁₉ -Lys + H ⁺ vs. Ac-Lys-Ala ₁₉ + H ⁺ and the current reach of DFT. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7373-7385.	2.8	48
103	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.	13.7	47
104	Mass selective infrared spectroscopy using a free electron laser. <i>Chemical Physics Letters</i> , 1996, 258, 118-122.	2.6	46
105	Analyzing the higher order structure of proteins with conformerâ€“selective ultraviolet photodissociation. <i>Proteomics</i> , 2015, 15, 2804-2812.	2.2	45
106	The Mid-IR Spectra of 9-Ethyl Guanine, Guanosine, and 2-Deoxyguanosine. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7529-7536.	2.5	44
107	Vibrational and Electronic Spectroscopy of Acenaphthylene and Its Cation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 782-793.	2.5	43
108	Infrared photodissociation spectroscopy of benzeneâ€“Ne, Ar complex cations. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 24-33.	2.8	42

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109	Direct observation of size dependent activation of NO on gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3906.	2.8	42
110	Rotational order in CO-intercalated C60 crystals. <i>Physical Review B</i> , 1998, 57, 6321-6324.	3.2	41
111	Photoexcitation of mass/charge selected hemin+, caught in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13370.	2.8	41
112	The infrared spectrum of Al+ benzene in the gas phase. <i>Chemical Physics Letters</i> , 2002, 364, 345-351.	2.6	39
113	Thermal bimolecular reactions of size selected transition metal cluster ions: Nb+n + O2, n = 1-6. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 109, 49-73.	1.8	38
114	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.	3.0	38
115	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, 717-735.	3.9	38
116	Infrared resonance-enhanced multiphoton ionization spectroscopy of magnesium oxide clusters. <i>Journal of Chemical Physics</i> , 2002, 116, 2400-2406.	3.0	38
117	Internal Proton Transfer Leading to Stable Zwitterionic Structures in a Neutral Isolated Peptide. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2332-2335.	13.8	38
118	Gas phase infrared spectroscopy of cluster anions as a function of size: The effect of solvation on hydrogen-bonding in Br-...(HBr)1,2,3 clusters. <i>Journal of Chemical Physics</i> , 2002, 117, 6493-6499.	3.0	37
119	Chapter 8 Vibrational spectroscopy of gas-phase clusters and complexes. <i>Chemical Physics of Solid Surfaces</i> , 2007, , 327-375.	0.3	37
120	C+7 is cyclic: experimental evidence. <i>Chemical Physics Letters</i> , 1993, 212, 241-246.	2.6	36
121	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.	1.8	36
122	How Cations Change Peptide Structure. <i>Chemistry - A European Journal</i> , 2013, 19, 11224-11234.	3.3	36
123	Unravelling the structural complexity of glycolipids with cryogenic infrared spectroscopy. <i>Nature Communications</i> , 2021, 12, 1201.	12.8	36
124	The lowest energy structures of C+7, C7 and C-7. An ab initio study. <i>Chemical Physics Letters</i> , 1993, 212, 247-252.	2.6	34
125	Ferrimagnetic cage-like Fe_4 structure determination from infrared dissociation spectroscopy. <i>Physical Review B</i> , 2010, 82, .	3.5	33
126	Confining CO molecules in stable orbits. <i>Chemical Physics Letters</i> , 1997, 270, 304-308.	2.6	32

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127	Conformations and vibrational spectra of a model tripeptide: change of secondary structure upon micro-solvation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3415.	2.8	32
128	IR multiphoton depletion spectroscopy of metal cluster–ligand complexes. <i>Chemical Physics Letters</i> , 2002, 357, 195-203.	2.6	31
129	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.	5.7	31
130	Excitation of C60 using a chirped free electron laser. <i>Optics Express</i> , 1999, 4, 46.	3.4	30
131	An Intrinsic Hydrophobicity Scale for Amino Acids and Its Application to Fluorinated Compounds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8216-8220.	13.8	30
132	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.	2.9	29
133	Structures of C _n H _x +Molecules for n = 22 and x = 5: Emergence of PAHs and Effects of Dangling Bonds on Conformation. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2096-2102.	2.5	29
134	IR-REMPE of vanadium-carbide nanocrystals: Ideal versus truncated lattices. <i>Chemical Physics Letters</i> , 2001, 333, 350-357.	2.6	29
135	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.	13.7	29
136	Infrared spectroscopy of Ti ₈ C ₁₂ 'met-car' cations. <i>Chemical Physics Letters</i> , 2001, 349, 220-226.	2.6	28
137	Infrared Spectroscopy of Neutral C ₇ H ₇ Isomers: Benzyl and Tropylium. <i>Journal of the American Chemical Society</i> , 2003, 125, 15714-15715.	13.7	28
138	Unraveling the internal dynamics of the benzene dimer: a combined theoretical and microwave spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10207-10223.	2.8	28
139	The role of the mobile proton in fucose migration. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4637-4645.	3.7	27
140	Structure Determination of Gas-Phase Niobium and Tantalum Carbide Nanocrystals via Infrared Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 013401.	7.8	26
141	Infrared spectroscopy of water adsorption on vanadium cluster cations (V _x ⁺ ; x = 3–18). <i>Chemical Physics Letters</i> , 2004, 392, 409-414.	2.6	26
142	Infrared Photodissociation Spectroscopy of the Benzoic Acid Radical Cation in a Quadrupole Trap. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8273-8278.	2.5	26
143	Ground-State Structure of the Proton-Bound Formate Dimer by Cold-Atom Infrared Action Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10615-10619.	13.8	26
144	Online monitoring the isomerization of an azobenzene-based dendritic bolaamphiphile using ion mobility-mass spectrometry. <i>Chemical Communications</i> , 2015, 51, 8801-8804.	4.1	25

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145	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.	2.9	24
146	An infrared spectroscopic study of protonated and cationic indazole. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 199-205.	1.5	24
147	IR action spectroscopy of glycosaminoglycan oligosaccharides. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 533-537.	3.7	24
148	The infrared spectrum of the benzoyl cation. <i>Chemical Physics Letters</i> , 2003, 367, 576-580.	2.6	23
149	Probing the conformational landscape and thermochemistry of DNA dinucleotide anions <i>via</i> helium nanodroplet infrared action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18400-18413.	2.8	23
150	Ozone generation in the 214-nm photolysis of oxygen at 25.degree.C. <i>The Journal of Physical Chemistry</i> , 1988, 92, 4956-4960.	2.9	22
151	Dynamics of CO Molecules in SolidC60as a Function of Cavity Size. <i>Physical Review Letters</i> , 1998, 80, 4899-4902.	7.8	22
152	Resolving Sphingolipid Isomers Using Cryogenic Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13638-13642.	13.8	22
153	Vibrational Spectroscopy of Fluoroformate, FCO ₂ ⁺ , Trapped in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2305-2310.	4.6	21
154	Direct Experimental Characterization of the Ferrier Glycosyl Cation in the Gas Phase. <i>Organic Letters</i> , 2020, 22, 8916-8919.	4.6	21
155	Infrared resonance enhanced multi-photon ionization spectroscopy of C84. <i>Chemical Physics Letters</i> , 1999, 299, 171-176.	2.6	20
156	Structural Characterization of Molybdenum Oxide Nanoclusters Using Ion Mobility Spectrometryâ€“Mass Spectrometry and Infrared Action Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7845-7853.	3.1	20
157	Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. <i>Analytical Chemistry</i> , 2020, 92, 10228-10232.	6.5	20
158	Observation of small doubly charged niobium clusters. <i>Chemical Physics Letters</i> , 1991, 179, 531-538.	2.6	19
159	Resonant infrared laser-induced desorption of methane condensed on NaCl(100): Isotope mixture experiments. <i>Journal of Chemical Physics</i> , 2006, 124, 044704.	3.0	19
160	Gas-phase microsolvation of ubiquitin: investigation of crown ether complexation sites using ion mobility-mass spectrometry. <i>Analyst</i> , The, 2016, 141, 5502-5510.	3.5	19
161	IR spectroscopy of gas-phase C60 ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6862.	2.8	18
162	Gas-phase IR spectra of intact Î±-helical coiled coil protein complexes. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 161-168.	1.5	18

#	ARTICLE	IF	CITATIONS
163	Side-chain effects on the structures of protonated amino acid dimers: A gas-phase infrared spectroscopy study. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 115-120.	1.5	18
164	Characterization of a trans- ¹⁸ O-trans Carbonic Acid- ¹⁹ F Fluoride Complex by Infrared Action Spectroscopy in Helium Nanodroplets. <i>Journal of the American Chemical Society</i> , 2019, 141, 5815-5823.	13.7	18
165	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.	3.0	17
166	Fernpartizipation in Glykosylierungen von Galaktose- ¹⁴ C Bausteinen: Direktnachweis durch kryogene Schwingungsspektroskopie. <i>Angewandte Chemie</i> , 2020, 132, 6224-6229.	2.0	17
167	Ladungsinduziertes Entwinden isolierter Proteine zu einer definierten Sekundärstruktur. <i>Angewandte Chemie</i> , 2016, 128, 3356-3360.	2.0	16
168	Fingerabdrücke für Glykane durch Spektroskopie kalter Ionen. <i>Angewandte Chemie</i> , 2017, 129, 11400-11404.	2.0	16
169	From Compact to String- ¹⁹ The Role of Secondary and Tertiary Structure in Charge-Induced Unzipping of Gas-Phase Proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 638-646.	2.8	15
170	The Impact of Leaving Group Anomerism on the Structure of Glycosyl Cations of Protected Galactosides. <i>ChemPhysChem</i> , 2020, 21, 1905-1907.	2.1	15
171	Unveiling Glycerolipid Fragmentation by Cryogenic Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 14827-14834.	13.7	15
172	Infrared laser-induced desorption of N ₂ O condensed on NaCl(¹⁰). <i>Surface Science</i> , 2002, 502-503, 325-330.	1.9	14
173	Native like helices in a specially designed ¹² peptide in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5376-5385.	2.8	14
174	Annulative ¹⁶ -Extension of Unactivated Benzene Derivatives through Nondirected C-H Arylation. <i>Organic Letters</i> , 2019, 21, 7004-7008.	4.6	14
175	Atomic clusters of magnetic oxides: Structure and phonons. <i>Journal of Applied Physics</i> , 2003, 93, 7379-7381.	2.5	13
176	Assessing the stability of alanine-based helices by conformer-selective IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19950-19954.	2.8	13
177	Plate-height model of ion mobility-mass spectrometry. <i>Analyst, The</i> , 2020, 145, 6313-6333.	3.5	13
178	Phase transitions of CO-intercalated C ₆₀ crystals. <i>Europhysics Letters</i> , 1998, 43, 302-307.	2.0	12
179	FELICE- ¹⁷ the free electron laser for intra-cavity experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 507, 494-497.	1.6	12
180	An infrared study on CO intercalated in solid C ₆₀ . <i>Journal of Chemical Physics</i> , 1999, 110, 2129-2139.	3.0	11

#	ARTICLE	IF	CITATIONS
181	Vibrational lifetimes of anilineâ€“noble gas complexes. <i>Chemical Physics Letters</i> , 2002, 359, 163-168.	2.6	11
182	IR-REMPI spectroscopy for thermometry of C60. <i>Chemical Physics Letters</i> , 2000, 321, 508-513.	2.6	10
183	Infrared multiphoton ionization of superhot C60: Experiment and model calculations. <i>Journal of Chemical Physics</i> , 2006, 124, 184312.	3.0	10
184	Gas-phase infrared spectroscopy of glycans and glycoconjugates. <i>Current Opinion in Structural Biology</i> , 2022, 72, 194-202.	5.7	10
185	Neighboring Group Participation of Benzoyl Protecting Groups in C3â€“and C6â€“Fluorinated Glucose. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	10
186	Velocity distribution of CO desorbing from NiO(100)/Ni(100) after picosecond UV laser irradiation. <i>Chemical Physics Letters</i> , 2006, 420, 110-114.	2.6	9
187	Studying the Key Intermediate of RNA Autohydrolysis by Cryogenic Gasâ€“Phase Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	9
188	Gas-phase infrared spectroscopy on the lowest triplet state of the pyrazineâ€“argon complex. <i>Chemical Physics Letters</i> , 2000, 317, 197-202.	2.6	8
189	Plateâ€“height model of ion mobilityâ€“mass spectrometry: Part 2â€“Peakâ€“toâ€“peak resolution and peak capacity. <i>Journal of Separation Science</i> , 2021, 44, 2798-2813.	2.5	8
190	Cryogenic infrared spectroscopy provides mechanistic insight into the fragmentation of phospholipid silver adducts. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5275-5285.	3.7	8
191	Resonant infrared laser-induced desorption of CD3F condensed on NaCl(100). <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3448-3452.	2.8	7
192	FEL induced dynamics of small molecules on surfaces: N2O on NaCl(100). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 507, 556-560.	1.6	7
193	Fucoseâ€“Migration in intakten protonierten Glykanâ€“Ionen â€“ ein universelles PhÃ“nomen in der Massenspektrometrie. <i>Angewandte Chemie</i> , 2018, 130, 7562-7565.	2.0	7
194	Chondroitin Sulfate Disaccharides in the Gas Phase: Differentiation and Conformational Constraints. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4373-4379.	2.5	7
195	Experimental observation of laser-induced coherent ion motion in a quadrupole trap. <i>International Journal of Mass Spectrometry</i> , 2002, 221, 163-176.	1.5	6
196	Stark Effect in the Benzene Dimer. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13775-13778.	2.5	6
197	IR spectroscopy on gas-phase molecules with a free electron laser. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 144, 211-217.	1.4	5
198	Groundâ€“State Structure of the Protonâ€“Bound Formate Dimer by Coldâ€“Ion Infrared Action Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 10775-10779.	2.0	5

#	ARTICLE	IF	CITATIONS
199	Non-covalent double bond sensors for gas-phase infrared spectroscopy of unsaturated fatty acids. Analytical and Bioanalytical Chemistry, 2021, 413, 3643-3653.	3.7	5
200	Compressibility of CO intercalated C60 crystals. Chemical Physics Letters, 2000, 319, 283-286.	2.6	3
201	Conformational Shift of a Hairpin Peptide upon Complex Formation with an Oligo-proline Peptide Studied by Mass Spectrometry. ChemistrySelect, 2016, 1, 3651-3656.	1.5	3
202	Die Erhaltung nativer Proteinstrukturen unter Ausschluss von Lösungsmittel: eine Untersuchung mit Hilfe der Kombination von Ionenmobilität mit Spektroskopie. Angewandte Chemie, 2016, 128, 14380-14384.	2.0	3
203	Helium Nanodroplet Infrared Action Spectroscopy of the Proton-Bound Dimer of Hydrogen Sulfate and Formate: Examining Nuclear Quantum Effects. Journal of Physical Chemistry A, 2021, 125, 9279-9287.	2.5	3
204	Infrared gas phase absorption spectra of neutral and cationic toluene-argon complexes. Chemical Physics Letters, 2003, 371, 469-475.	2.6	2
205	Eine intrinsische Hydrophobieskala für Aminosäuren und ihre Anwendung auf fluorierte Verbindungen. Angewandte Chemie, 2019, 131, 8300-8304.	2.0	2
206	Structures and stabilities of carbon cluster ions. , 1992, , .		1
207	One- and Two-Dimensional Carbon Clusters: Isomers, Structures and Isomer Abundances.. Materials Research Society Symposia Proceedings, 1992, 270, 117.	0.1	1
208	Photochemistry of solid C 60 with tunable infrared radiation. Applied Physics A: Materials Science and Processing, 1998, 67, 161-167.	2.3	1
209	Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie. Angewandte Chemie, 2020, 132, 13740-13744.	2.0	1
210	FEL induced dynamics of small molecules on surfaces: N2O on NaCl(100). , 2003, , 556-560.		1
211	Complex systems in the gas phase. , 2007, , 153-256.		1
212	Frontispiece: Studying the Key Intermediate of RNA Autohydrolysis by Cryogenic Gas-Phase Infrared Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
213	Infrared resonance enhanced multiphoton ionization of fullerenes. , 1998, , .		0
214	Local Conformational Preferences of Peptides Near Attached Cations: Structure Determination by First-Principles Theory and IR-Spectroscopy. Biophysical Journal, 2012, 102, 46a.	0.5	0
215	Is there a Beta-Peptide Equivalent of the Alpha-Helix?. Biophysical Journal, 2014, 106, 654a.	0.5	0
216	Titelbild: Ladungsinduziertes Entwinden isolierter Proteine zu einer definierten Sekundärstruktur (Angew. Chem. 10/2016). Angewandte Chemie, 2016, 128, 3291-3291.	2.0	0

#	ARTICLE	IF	CITATIONS
217	Rücktitelbild: Die Erhaltung nativer Proteinstrukturen unter Ausschluss von Lösungsmittel: eine Untersuchung mit Hilfe der Kombination von Ionenmobilität mit Spektroskopie (Angew. Chem. 45/2016). Angewandte Chemie, 2016, 128, 14386-14386.	2.0	0
218	Innentitelbild: Unterscheidung von isomeren Sphingolipiden mittels kryogener Infrarotspektroskopie (Angew. Chem. 32/2020). Angewandte Chemie, 2020, 132, 13226-13226.	2.0	0
219	Infrared Spectroscopy of Ionic PAHs and Related Compounds. Springer Proceedings in Physics, 1997, , 545-548.	0.2	0
220	Untersuchung des reaktiven Intermediats der RNA Autohydrolyse mittels kryogener Infrarotspektroskopie in der Gasphase. Angewandte Chemie, 0, , .	2.0	0
221	Frontispiz: Untersuchung des reaktiven Intermediats der RNA Autohydrolyse mittels kryogener Infrarotspektroskopie in der Gasphase. Angewandte Chemie, 2022, 134, .	2.0	0