

# Jos Oomens

## List of Publications by Year in descending order

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437  
papers

15,187  
citations

19608

61  
h-index

37111

96  
g-index

460  
all docs

460  
docs citations

460  
times ranked

6630  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas-phase infrared multiple photon dissociation spectroscopy of mass-selected molecular ions. <i>International Journal of Mass Spectrometry</i> , 2006, 254, 1-19.	0.7	488
2	Vibrational spectroscopy of bare and solvated ionic complexes of biological relevance. <i>Mass Spectrometry Reviews</i> , 2009, 28, 468-494.	2.8	390
3	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.	0.6	287
4	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.	6.6	233
5	Laboratory Infrared Spectroscopy of Cationic Polycyclic Aromatic Hydrocarbon Molecules. <i>Astrophysical Journal</i> , 2003, 591, 968-985.	1.6	229
6	Reaction products in mass spectrometry elucidated with infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3804.	1.3	215
7	Infrared Spectroscopy and Theoretical Studies on Gas-Phase Protonated Leu-enkephalin and Its Fragments: A Direct Experimental Evidence for the Mobile Proton. <i>Journal of the American Chemical Society</i> , 2007, 129, 5887-5897.	6.6	208
8	Infrared Spectroscopy of Arginine Cation Complexes: Direct Observation of Gas-Phase Zwitterions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11759-11770.	1.1	171
9	Gas-Phase Infrared Photodissociation Spectroscopy of Cationic Polyaromatic Hydrocarbons. <i>Astrophysical Journal</i> , 2000, 542, 404-410.	1.6	170
10	Hydrogen Bonding and Cooperativity in Isolated and Hydrated Sugars: Mannose, Galactose, Glucose, and Lactose. <i>Journal of the American Chemical Society</i> , 2005, 127, 11414-11425.	6.6	170
11	Gas-Phase IR Spectroscopy of Deprotonated Amino Acids. <i>Journal of the American Chemical Society</i> , 2009, 131, 4310-4319.	6.6	167
12	Effects of Alkaline Earth Metal Ion Complexation on Amino Acid Zwitterion Stability: Results from Infrared Action Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6463-6471.	6.6	166
13	Charge-state resolved mid-infrared spectroscopy of a gas-phase protein. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1345.	1.3	160
14	IRMPD spectroscopy of metal-ion/tryptophan complexes. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2744.	1.3	158
15	Spectroscopic and Theoretical Evidence for Oxazolone Ring Formation in Collision-Induced Dissociation of Peptides. <i>Journal of the American Chemical Society</i> , 2005, 127, 17154-17155.	6.6	150
16	Infrared ion spectroscopy in a modified quadrupole ion trap mass spectrometer at the FELIX free electron laser laboratory. <i>Review of Scientific Instruments</i> , 2016, 87, 103108.	0.6	150
17	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.	6.6	141
18	Photoacoustic spectroscopy using quantum-cascade lasers. <i>Optics Letters</i> , 1999, 24, 178.	1.7	140

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19	Infrared Multiphoton Dissociation Spectroscopy of Cationized Serine: Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2248-2257.	1.1	139
20	Stepwise Solvation of an Amino Acid: The Appearance of Zwitterionic Structures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7309-7316.	1.1	123
21	Free Carboxylate Stretching Modes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3281-3283.	1.1	118
22	Gas-Phase Zwitterion Stabilization by a Metal Dication. <i>Journal of the American Chemical Society</i> , 2007, 129, 14562-14563.	6.6	117
23	Infrared Multiphoton Dissociation Spectroscopy of Cationized Threonine: Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2258-2267.	1.1	116
24	Gas-Phase Deprotonation of <i>p</i> -Hydroxybenzoic Acid Investigated by IR Spectroscopy: Solution-Phase Structure Is Retained upon ESI. <i>Journal of the American Chemical Society</i> , 2009, 131, 13570-13571.	6.6	113
25	Differentiation of Isomers by Wavelength-Tunable Infrared Multiple-Photon Dissociation-Mass Spectrometry: Application to Glucose-Containing Disaccharides. <i>Analytical Chemistry</i> , 2006, 78, 670-679.	3.2	111
26	Infrared Spectroscopy of Cationized Lysine and $\mu$ -N-methyllysine in the Gas Phase: Effects of Alkali-Metal Ion Size and Proton Affinity on Zwitterion Stability. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7753-7760.	1.1	108
27	INFRARED SPECTRA OF ISOLATED PROTONATED POLYCYCLIC AROMATIC HYDROCARBON MOLECULES. <i>Astrophysical Journal</i> , 2009, 706, L66-L70.	1.6	103
28	Probing the Vibrations of Shared, OH+O-Bound Protons in the Gas Phase. <i>ChemPhysChem</i> , 2004, 5, 740-743.	1.0	100
29	Alkali Metal Complexes of the Dipeptides PheAla and AlaPhe: IRMPD Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 579-589.	1.0	99
30	Vibrational Spectroscopy of Mass-Selected $[\text{UO}_2(\text{ligand})_n]^{2+}$ Complexes in the Gas Phase: A Comparison with Theory. <i>Journal of the American Chemical Society</i> , 2006, 128, 4802-4813.	6.6	98
31	Spectroscopic evidence for an oxazolone structure of the $b_{2+}$ fragment ion from protonated tri-alanine. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 334-339.	1.2	98
32	Interactions of Mono- and Divalent Metal Ions with Aspartic and Glutamic Acid Investigated with IR Photodissociation Spectroscopy and Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10823-10830.	1.1	96
33	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.	6.6	95
34	The Site of Cr+Attachment to Gas-Phase Aniline from Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 724-725.	6.6	93
35	Structures of the Dehydrogenation Products of Methane Activation by 5d Transition Metal Cations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4115-4126.	1.1	89
36	Effect of Peptide Fragment Size on the Propensity of Cyclization in Collision-Induced Dissociation: Oligoglycine $b_{2+}^{\prime}b_{8+}$ . <i>Journal of the American Chemical Society</i> , 2009, 131, 18272-18282.	6.6	86

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37	Infrared spectra of protonated neurotransmitters: dopamine. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2815-2823.	1.3	85
38	Infrared Spectroscopy of Diamondoid Molecules: New Insights into the Presence of Nanodiamonds in the Interstellar Medium. <i>Astrophysical Journal</i> , 2007, 661, 919-925.	1.6	83
39	Characterization of glycosyl dioxolenium ions and their role in glycosylation reactions. <i>Nature Communications</i> , 2020, 11, 2664.	5.8	83
40	Gas Phase Infrared Spectroscopy of Cationic Indane, Acenaphthene, Fluorene, and Fluoranthene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8302-8309.	1.1	79
41	Gas-Phase IR Spectroscopy of Anionic Iron Carbonyl Clusters. <i>Journal of the American Chemical Society</i> , 2004, 126, 14726-14727.	6.6	79
42	Structures of Protonated Dipeptides: The Role of Arginine in Stabilizing Salt Bridges. <i>Journal of the American Chemical Society</i> , 2009, 131, 11442-11449.	6.6	77
43	Role of Sequence in Salt-Bridge Formation for Alkali Metal Cationized GlyArg and ArgGly Investigated with IRMPD Spectroscopy and Theory. <i>Journal of the American Chemical Society</i> , 2009, 131, 1232-1242.	6.6	76
44	Structural identification of electron transfer dissociation products in mass spectrometry using infrared ion spectroscopy. <i>Nature Communications</i> , 2016, 7, 11754.	5.8	74
45	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Asparagine: Effects of Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5519-5530.	1.1	73
46	Infrared multiple photon dissociation spectroscopy of cationized cysteine: Effects of metal cation size on gas-phase conformation. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 9-17.	0.7	71
47	The anharmonic quartic force field infrared spectra of three polycyclic aromatic hydrocarbons: Naphthalene, anthracene, and tetracene. <i>Journal of Chemical Physics</i> , 2015, 143, 224314.	1.2	71
48	Chirality-Induced Conformational Preferences in Peptide-Metal Ion Binding Revealed by IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 1212-1215.	6.6	68
49	Direct Experimental Characterization of Glycosyl Cations by Infrared Ion Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 6034-6038.	6.6	68
50	An automatic variable laser attenuator for IRMPD spectroscopy and analysis of power-dependence in fragmentation spectra. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 1-8.	0.7	67
51	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.	6.6	66
52	Variable denticity in carboxylate binding to the uranyl coordination complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 719-727.	1.2	65
53	Gas-Phase Infrared Spectrum of the Coronene Cation. <i>Astrophysical Journal</i> , 2001, 560, L99-L103.	1.6	64
54	Emergence of Symmetry and Chirality in Crown Ether Complexes with Alkali Metal Cations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7048-7054.	1.1	64

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55	Conformation Switching in Gas-Phase Complexes of Histidine with Alkaline Earth Ions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10403-10408.	1.2	63
56	IR spectroscopy of cationized aliphatic amino acids: Stability of charge-solvated structure increases with metal cation size. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 18-27.	0.7	63
57	Intensity-resolved IR multiple photon ionization and fragmentation of C60. <i>Journal of Chemical Physics</i> , 2010, 132, 074305.	1.2	63
58	Encapsulation of Metal Cations by the PhePhe Ligand: A Cationic Ion Cage. <i>Journal of the American Chemical Society</i> , 2011, 133, 9376-9386.	6.6	63
59	Non-Equilibrium Isomer Distribution of the Gas-Phase Photoactive Yellow Protein Chromophore. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2259-2263.	2.1	63
60	Peptide Length, Steric Effects, and Ion Solvation Govern Zwitterion Stabilization in Barium-Chelated Di- and Tripeptides. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10552-10554.	1.2	62
61	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, 2085-2093.	6.6	62
62	Coordination of Trivalent Metal Cations to Peptides: Results from IRMPD Spectroscopy and Theory. <i>Journal of Physical Chemistry A</i> , 2010, 114, 854-860.	1.1	62
63	Alkali Metal Ion Binding to Glutamine and Glutamine Derivatives Investigated by Infrared Action Spectroscopy and Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8578-8584.	1.1	60
64	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Histidine: Effects of Metal Cation Size on Gas-Phase Conformation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1532-1541.	1.1	59
65	Proton Affinity and Zwitterion Stability: New Results from Infrared Spectroscopy and Theory of Cationized Lysine and Analogues in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2009, 113, 431-438.	1.1	58
66	Infrared Multiple Photon Dissociation Action Spectroscopy of Proton-Bound Dimers of Cytosine and Modified Cytosines: Effects of Modifications on Gas-Phase Conformations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14191-14201.	1.2	58
67	IR Spectroscopic Techniques to Study Isolated Biomolecules. <i>Topics in Current Chemistry</i> , 2014, 364, 1-42.	4.0	58
68	Infrared multiple photon dynamics and spectroscopy of cationic PABA and its dehydroxylated fragment ion. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 710.	1.3	57
69	Structure of the Observable Histidine Radical Cation in the Gas Phase: A Captodative $\dot{\text{C}}\text{H}$ Radical Ion. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9666-9668.	7.2	57
70	Dimeric Complexes of Tryptophan with $M^{2+}$ Metal Ions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 845-851.	1.1	57
71	Infrared multiple photon dissociation spectroscopy of cationized methionine: effects of alkali-metal cation size on gas-phase conformation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3384.	1.3	57
72	Infrared ion spectroscopy: New opportunities for small-molecule identification in mass spectrometry - A tutorial perspective. <i>Analytica Chimica Acta</i> , 2020, 1093, 1-15.	2.6	57

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73	Gas-Phase Conformations and Energetics of Protonated 2-Deoxyadenosine and Adenosine: IRMPD Action Spectroscopy and Theoretical Studies. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2795-2805.	1.2	56
74	Crown Ether Complexes with H <sub>3</sub> O <sup>+</sup> and NH <sub>4</sub> <sup>+</sup> : Proton Localization and Proton Bridge Formation. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7275-7282.	1.1	55
75	Vibrational spectroscopy of anionic nitrate complexes of UO <sub>2</sub> <sup>2+</sup> and Eu <sup>3+</sup> isolated in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1192-1202.	1.3	54
76	Isomer Population Analysis of Gaseous Ions From Infrared Multiple Photon Dissociation Kinetics. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2745-2751.	1.1	54
77	Molecular identification in metabolomics using infrared ion spectroscopy. <i>Scientific Reports</i> , 2017, 7, 3363.	1.6	54
78	Infrared Spectroscopy of Discrete Uranyl Anion Complexes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 508-521.	1.1	53
79	Mid-IR spectra of different conformers of phenylalanine in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1248-1256.	1.3	53
80	Gas-phase infrared spectra of cationized nitrogen-substituted polycyclic aromatic hydrocarbons. <i>Astronomy and Astrophysics</i> , 2010, 517, A15.	2.1	52
81	Combined Liquid Chromatography-Infrared Ion Spectroscopy for Identification of Regioisomeric Drug Metabolites. <i>Analytical Chemistry</i> , 2017, 89, 4359-4362.	3.2	52
82	Infrared Multiple Photon Dissociation (IRMPD) Spectroscopy of the Proton-Bound Dimer of 1-Methylcytosine in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2891-2897.	2.1	51
83	Metal ion binding to peptides: Oxygen or nitrogen sites?. <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 71-77.	0.7	51
84	Infrared Multiple Photon Dissociation Action Spectroscopy of Deprotonated DNA Mononucleotides: Gas-Phase Conformations and Energetics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1319-1335.	1.1	51
85	HIGH-RESOLUTION IR ABSORPTION SPECTROSCOPY OF POLYCYCLIC AROMATIC HYDROCARBONS: THE REALM OF ANHARMONICITY. <i>Astrophysical Journal</i> , 2015, 814, 23.	1.6	51
86	N3 and O2 Protonated Tautomeric Conformations of 2-Deoxycytidine and Cytidine Coexist in the Gas Phase. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5773-5784.	1.2	51
87	Vibrational spectroscopy of a non-aromatic amino acid-based model peptide: identification of the $\hat{1}^3$ -turn motif of the peptide backbone. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 13-15.	1.3	50
88	Infrared Spectra of Protonated Neurotransmitters: Serotonin. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13268-13276.	1.1	50
89	Cationized phenylalanine conformations characterized by IRMPD and computation for singly and doubly charged ions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13383.	1.3	50
90	Rotationally resolved infrared spectroscopy of adamantane. <i>Journal of Chemical Physics</i> , 2012, 136, 024310.	1.2	50

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91	Dissociative Photoionization of Quinoline and Isoquinoline. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1127-1136.	1.1	49
92	IRMPD Spectroscopy Sheds New (Infrared) Light on the Sulfate Pattern of Carbohydrates. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2114-2120.	1.1	49
93	Effects of anions on the zwitterion stability of Glu, His and Arg investigated by IRMPD spectroscopy and theory. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 116-123.	0.7	48
94	IRMPD Action Spectroscopy of Alkali Metal Cation-Cytosine Complexes: Effects of Alkali Metal Cation Size on Gas Phase Conformation. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1523-1533.	1.2	47
95	Isotope dependent, temperature regulated, energy repartitioning in a low-barrier, short-strong hydrogen bonded cluster. <i>Journal of Chemical Physics</i> , 2010, 132, 244301.	1.2	46
96	Gas-Phase Peptide Structures Unraveled by Far-IR Spectroscopy: Combining IR-UV Ion-Dip Experiments with Born-Oppenheimer Molecular Dynamics Simulations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3663-3666.	7.2	46
97	Interaction of Cu <sup>+</sup> with cytosine and formation of i-motif-like M <sup>+</sup> -C complexes: alkali versus coinage metals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7269-7277.	1.3	46
98	The anharmonic quartic force field infrared spectra of hydrogenated and methylated PAHs. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1189-1197.	1.3	46
99	Interaction of Vibrational Fundamental and Combination States of Ethylene in the 3 1/4 μm Region. <i>Journal of Molecular Spectroscopy</i> , 1997, 185, 31-47.	0.4	45
100	Infrared spectroscopic investigation of higher diamondoids. <i>Journal of Molecular Spectroscopy</i> , 2006, 238, 158-167.	0.4	45
101	Structural Elucidation of Biological and Toxicological Complexes: Investigation of Monomeric and Dimeric Complexes of Histidine with Multiply Charged Transition Metal (Zn and Cd) Cations using IR Action Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12648-12661.	1.2	45
102	Vibrational study of isolated 18-crown-6 ether complexes with alkaline-earth metal cations. <i>International Journal of Mass Spectrometry</i> , 2011, 308, 217-224.	0.7	45
103	Gas-Phase Conformations and Energetics of Protonated 2-Deoxyguanosine and Guanosine: IRMPD Action Spectroscopy and Theoretical Studies. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14774-14784.	1.2	45
104	Infrared Spectroscopy of Gas-Phase Complexes of Fe <sup>+</sup> and Polycyclic Aromatic Hydrocarbon Molecules. <i>Astrophysical Journal</i> , 2006, 646, 666-680.	1.6	44
105	The Mid-IR Spectra of 9-Ethyl Guanine, Guanosine, and 2-Deoxyguanosine. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7529-7536.	1.1	44
106	Unraveling the unknown areas of the human metabolome: the role of infrared ion spectroscopy. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 367-377.	1.7	44
107	Vibrational and Electronic Spectroscopy of Acenaphthylene and Its Cation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 782-793.	1.1	43
108	Conformational Preferences of an Amyloidogenic Peptide: IR Spectroscopy of Ac-VQIVYK-NHMe. <i>Journal of the American Chemical Society</i> , 2008, 130, 14640-14650.	6.6	43

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109	Oxazolone versus macrocycle structures for leu-enkephalin $b_{2+}$ $\rightarrow$ $b_{4+}$ : Insights from infrared multiple-photon dissociation spectroscopy and gas-phase hydrogen/deuterium exchange. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1313-1321.	1.2	42
110	Conformations and vibrational spectroscopy of metal-ion/polyalalanine complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 107-115.	0.7	42
111	$a_{2+}$ Ion Derived from Triglycine: An $N_{1+}$ -Protonated 4-Imidazolidinone. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 868-872.	2.1	42
112	Infrared Spectroscopy of Divalent Zinc and Cadmium Crown Ether Systems. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5408-5422.	1.1	42
113	Gas-phase conformations of small polyprolines and their fragment ions by IRMPD spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 179-187.	0.7	42
114	Spectroscopic evidence for the formation of pentalene $\rightarrow$ in the dissociative ionization of naphthalene. <i>Chemical Communications</i> , 2016, 52, 2636-2638.	2.2	42
115	Evidence for the Role of Tetramethylethylenediamine in Aqueous Negishi Cross-Coupling: Synthesis of Nonproteinogenic Phenylalanine Derivatives on Water. <i>Journal of Organic Chemistry</i> , 2011, 76, 1727-1734.	1.7	41
116	IR Spectroscopy of Isolated Neutral and Protonated Adenine and $\epsilon$ -Methyladenine. <i>ChemPhysChem</i> , 2011, 12, 1921-1927.	1.0	41
117	Peptide Bond Tautomerization Induced by Divalent Metal Ions: Characterization of the Iminol Configuration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4591-4593.	7.2	41
118	IR-Spectroscopic Characterization of Acetophenone Complexes with $Fe^+$ , $Co^+$ , and $Ni^+$ Using Free-Electron-Laser IRMPD. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8316-8326.	1.1	40
119	Infrared Multiple Photon Dissociation Spectroscopy of Potassiated Proline. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11972-11974.	1.1	40
120	Structure and Reactivity of the Cysteine Methyl Ester Radical Cation. <i>Chemistry - A European Journal</i> , 2011, 17, 873-879.	1.7	40
121	Diverse mixtures of 2,4-dihydroxy tautomers and O4 protonated conformers of uridine and $\epsilon$ -deoxyuridine coexist in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25978-25988.	1.3	40
122	The anharmonic quartic force field infrared spectra of five non-linear polycyclic aromatic hydrocarbons: Benz[a]anthracene, chrysene, phenanthrene, pyrene, and triphenylene. <i>Journal of Chemical Physics</i> , 2016, 145, 084313.	1.2	40
123	The FELion cryogenic ion trap beam line at the FELIX free-electron laser laboratory: infrared signatures of primary alcohol cations. <i>Faraday Discussions</i> , 2019, 217, 172-202.	1.6	40
124	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.	2.0	38
125	Internal Proton Transfer Leading to Stable Zwitterionic Structures in a Neutral Isolated Peptide. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2332-2335.	7.2	38
126	Infrared multiple photon dissociation action spectroscopy of sodiated uracil and thiouracils: Effects of thio keto-substitution on gas-phase conformation. <i>International Journal of Mass Spectrometry</i> , 2011, 308, 191-202.	0.7	38



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127	Structure and Reactivity of the $N$ -Acetyl-Cysteine Radical Cation and Anion: Does Radical Migration Occur?. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1794-803.	1.2	38
128	Infrared Spectroscopy of $[XFeC_{24}H_{12}]^{+}$ ( $X =$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (C<s	1.1	37
129	Phase: Experimental and Computational Studies of Astrophysical Interest. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8551-8560.	1.2	36
130	Observation of zwitterion formation in the gas-phase H/D-exchange with CH <sub>3</sub> OD: Solution-phase structures in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 512-516.	1.0	36
131	Infrared Spectroscopy of Dioxouranium(V) Complexes with Solvent Molecules: Effect of Reduction. <i>ChemPhysChem</i> , 2008, 9, 1278-1285.	0.7	36
132	Infrared multiple photon dissociation action spectroscopy of protonated uracil and thiouracils: Effects of thioketo-substitution on gas-phase conformation. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 139-151.	0.7	36
133	How does a small peptide choose how to bind a metal ion? IRMPD and computational survey of CS versus Iminol binding preferences. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 356-364.	2.1	36
134	High-resolution IR absorption spectroscopy of polycyclic aromatic hydrocarbons in the 3 $\mu$ m region: role of hydrogenation and alkylation. <i>Astronomy and Astrophysics</i> , 2018, 610, A65.	1.1	35
135	Evaluation of Hybrid Theoretical Approaches for Structural Determination of a Glycine-Linked Cisplatin Derivative via Infrared Multiple Photon Dissociation (IRMPD) Action Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10980-10987.	1.3	35
136	Gas-phase vibrational spectroscopy of triphenylamine: the effect of charge on structure and spectra. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19881-19889.	7.2	35
137	The Glycosylation Mechanisms of 6,3 $\mu$ uronic Acid Lactones. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8746-8751.	1.1	34
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