Jos Oomens

List of Publications by Year
in descending order

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437	15,187	19657 61	37204 96
papers	citations	h-index	g-index

460	460	460	6630
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas-phase infrared multiple photon dissociation spectroscopy of mass-selected molecular ions. International Journal of Mass Spectrometry, 2006, 254, 1-19.	1.5	488
2	Vibrational spectroscopy of bare and solvated ionic complexes of biological relevance. Mass Spectrometry Reviews, 2009, 28, 468-494.	5.4	390
3	Free electron laser-Fourier transform ion cyclotron resonance mass spectrometry facility for obtaining infrared multiphoton dissociation spectra of gaseous ions. Review of Scientific Instruments, 2005, 76, 023103.	1.3	287
4	Infrared Spectroscopy of Phenylalanine Ag(I) and Zn(II) Complexes in the Gas Phase. Journal of the American Chemical Society, 2006, 128, 517-525.	13.7	233
5	Laboratory Infrared Spectroscopy of Cationic Polycyclic Aromatic Hydrocarbon Molecules. Astrophysical Journal, 2003, 591, 968-985.	4.5	229
6	Reaction products in mass spectrometry elucidated with infrared spectroscopy. Physical Chemistry Chemical Physics, 2007, 9, 3804.	2.8	215
7	Infrared Spectroscopy and Theoretical Studies on Gas-Phase Protonated Leu-enkephalin and Its Fragments:Â Direct Experimental Evidence for the Mobile Proton. Journal of the American Chemical Society, 2007, 129, 5887-5897.	13.7	208
8	Infrared Spectroscopy of Arginine Cation Complexes:â€‰ Direct Observation of Gas-Phase Zwitterions. Journal of Physical Chemistry A, 2007, 111, 11759-11770.	2.5	171
9	Gasâ€Phase Infrared Photodissociation Spectroscopy of Cationic Polyaromatic Hydrocarbons. Astrophysical Journal, 2000, 542, 404-410.	4.5	170
10	Hydrogen Bonding and Cooperativity in Isolated and Hydrated Sugars:Â Mannose, Galactose, Glucose, and Lactose. Journal of the American Chemical Society, 2005, 127, 11414-11425.	13.7	170
11	Gas-Phase IR Spectroscopy of Deprotonated Amino Acids. Journal of the American Chemical Society, 2009, 131, 4310-4319.	13.7	167
12	Effects of Alkaline Earth Metal Ion Complexation on Amino Acid Zwitterion Stability: Results from Infrared Action Spectroscopy. Journal of the American Chemical Society, 2008, 130, 6463-6471.	13.7	166
13	Charge-state resolved mid-infrared spectroscopy of a gas-phase protein. Physical Chemistry Chemical Physics, 2005, 7, 1345.	2.8	160
14	IRMPD spectroscopy of metal-ion/tryptophan complexes. Physical Chemistry Chemical Physics, 2006, 8, 2744.	2.8	158
15	Spectroscopic and Theoretical Evidence for Oxazolone Ring Formation in Collision-Induced Dissociation of Peptides. Journal of the American Chemical Society, 2005, 127, 17154-17155.	13.7	150
16	Infrared ion spectroscopy in a modified quadrupole ion trap mass spectrometer at the FELIX free electron laser laboratory. Review of Scientific Instruments, 2016, 87, 103108.	1.3	150
17	Infrared Fingerprint Spectroscopy and Theoretical Studies of Potassium Ion Tagged Amino Acids and Peptides in the Gas Phase. Journal of the American Chemical Society, 2005, 127, 8571-8579.	13.7	141
18	Photoacoustic spectroscopy using quantum-cascade lasers. Optics Letters, 1999, 24, 178.	3.3	140

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19	Infrared Multiphoton Dissociation Spectroscopy of Cationized Serine:â€‰ Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2008, 112, 2248-2257.	2.5	139
20	Stepwise Solvation of an Amino Acid:â€‰ The Appearance of Zwitterionic Structures. Journal of Physical Chemistry A, 2007, 111, 7309-7316.	2.5	123
21	Free Carboxylate Stretching Modes. Journal of Physical Chemistry A, 2008, 112, 3281-3283.	2.5	118
22	Gas-Phase Zwitterion Stabilization by a Metal Dication. Journal of the American Chemical Society, 2007, 129, 14562-14563.	13.7	117
23	Infrared Multiphoton Dissociation Spectroscopy of Cationized Threonine:â€‰ Effects of Alkali-Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2008, 112, 2258-2267.	2.5	116
24	Gas-Phase Deprotonation of p-Hydroxybenzoic Acid Investigated by IR Spectroscopy: Solution-Phase Structure Is Retained upon ESI. Journal of the American Chemical Society, 2009, 131, 13570-13571.	13.7	113
25	Differentiation of Isomers by Wavelength-Tunable Infrared Multiple-Photon Dissociation-Mass Spectrometry:â€‰ Application to Glucose-Containing Disaccharides. Analytical Chemistry, 2006, 78, 670-679.	6.5	111
26	Infrared Spectroscopy of Cationized Lysine and Îµ-N-methyllysine in the Gas Phase:â€‰ Effects of Alkali-Metal Ion Size and Proton Affinity on Zwitterion Stability. Journal of Physical Chemistry A, 2007, 111, 7753-7760.	2.5	108
27	INFRARED SPECTRA OF ISOLATED PROTONATED POLYCYCLIC AROMATIC HYDROCARBON MOLECULES. Astrophysical Journal, 2009, 706, L66-L70.	4.5	103
28	Probing the Vibrations of Shared, OH+O-Bound Protons in the Gas Phase. ChemPhysChem, 2004, 5, 740-743.	2.1	100
29	Alkali Metal Complexes of the Dipeptides PheAla and AlaPhe: IRMPD Spectroscopy. ChemPhysChem, 2008, 9, 579-589.	2.1	99
30	Vibrational Spectroscopy of Mass-Selected [UO2(ligand)n]2+Complexes in the Gas Phase:Â Comparison with Theory. Journal of the American Chemical Society, 2006, 128, 4802-4813.	13.7	98
31	Spectroscopic evidence for an oxazolone structure of the b₂ fragment ion from protonated tri-alanine. Journal of the American Society for Mass Spectrometry, 2009, 20, 334-339.	2.8	98
32	Interactions of Mono- and Divalent Metal Ions with Aspartic and Glutamic Acid Investigated with IR Photodissociation Spectroscopy and Theory. Journal of Physical Chemistry A, 2008, 112, 10823-10830.	2.5	96
33	Infrared Spectroscopy of Gas-Phase Cr+Coordination Complexes:Â Determination of Binding Sites and Electronic States. Journal of the American Chemical Society, 2005, 127, 7243-7254.	13.7	95
34	The Site of Cr+Attachment to Gas-Phase Aniline from Infrared Spectroscopy. Journal of the American Chemical Society, 2004, 126, 724-725.	13.7	93
35	Structures of the Dehydrogenation Products of Methane Activation by 5d Transition Metal Cations. Journal of Physical Chemistry A, 2013, 117, 4115-4126.	2.5	89
36	Effect of Peptide Fragment Size on the Propensity of Cyclization in Collision-Induced Dissociation: Oligoglycine b₂â^'b₈. Journal of the American Chemical Society, 2009, 131, 18272-18282.	13.7	86

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37	Infrared spectra of protonated neurotransmitters: dopamine. Physical Chemistry Chemical Physics, 2011, 13, 2815-2823.	2.8	85
38	Infrared Spectroscopy of Diamondoid Molecules: New Insights into the Presence of Nanodiamonds in the Interstellar Medium. Astrophysical Journal, 2007, 661, 919-925.	4.5	83
39	Characterization of glycosyl dioxolenium ions and their role in glycosylation reactions. Nature Communications, 2020, 11, 2664.	12.8	83
40	Gas Phase Infrared Spectroscopy of Cationic Indane, Acenaphthene, Fluorene, and Fluoranthene. Journal of Physical Chemistry A, 2001, 105, 8302-8309.	2.5	79
41	Gas-Phase IR Spectroscopy of Anionic Iron Carbonyl Clusters. Journal of the American Chemical Society, 2004, 126, 14726-14727.	13.7	79
42	Structures of Protonated Dipeptides: The Role of Arginine in Stabilizing Salt Bridges. Journal of the American Chemical Society, 2009, 131, 11442-11449.	13.7	77
43	Role of Sequence in Salt-Bridge Formation for Alkali Metal Cationized GlyArg and ArgGly Investigated with IRMPD Spectroscopy and Theory. Journal of the American Chemical Society, 2009, 131, 1232-1242.	13.7	76
44	Structural identification of electron transfer dissociation products in mass spectrometry using infrared ion spectroscopy. Nature Communications, 2016, 7, 11754.	12.8	74
45	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Asparagine: Effects of Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2009, 113, 5519-5530.	2.5	73
46	Infrared multiple photon dissociation spectroscopy of cationized cysteine: Effects of metal cation size on gas-phase conformation. International Journal of Mass Spectrometry, 2010, 297, 9-17.	1.5	71
47	The anharmonic quartic force field infrared spectra of three polycyclic aromatic hydrocarbons: Naphthalene, anthracene, and tetracene. Journal of Chemical Physics, 2015, 143, 224314.	3.0	71
48	Chirality-Induced Conformational Preferences in Peptideâ^'Metal Ion Binding Revealed by IR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 1212-1215.	13.7	68
49	Direct Experimental Characterization of Glycosyl Cations by Infrared Ion Spectroscopy. Journal of the American Chemical Society, 2018, 140, 6034-6038.	13.7	68
50	An automatic variable laser attenuator for IRMPD spectroscopy and analysis of power-dependence in fragmentation spectra. International Journal of Mass Spectrometry, 2019, 443, 1-8.	1.5	67
51	Mid-Infrared Spectroscopy of Protected Peptides in the Gas Phase:Â A Probe of the Backbone Conformation. Journal of the American Chemical Society, 2006, 128, 3592-3597.	13.7	66
52	Variable denticity in carboxylate binding to the uranyl coordination complexes. Journal of the American Society for Mass Spectrometry, 2010, 21, 719-727.	2.8	65
53	Gas-Phase Infrared Spectrum of the Coronene Cation. Astrophysical Journal, 2001, 560, L99-L103.	4.5	64
54	Emergence of Symmetry and Chirality in Crown Ether Complexes with Alkali Metal Cations. Journal of Physical Chemistry A, 2010, 114, 7048-7054.	2.5	64

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55	Conformation Switching in Gas-Phase Complexes of Histidine with Alkaline Earth Ions. Journal of Physical Chemistry B, 2009, 113, 10403-10408.	2.6	63
56	IR spectroscopy of cationized aliphatic amino acids: Stability of charge-solvated structure increases with metal cation size. International Journal of Mass Spectrometry, 2010, 297, 18-27.	1.5	63
57	Intensity-resolved IR multiple photon ionization and fragmentation of C60. Journal of Chemical Physics, 2010, 132, 074305.	3.0	63
58	Encapsulation of Metal Cations by the PhePhe Ligand: A Cationâ^'Ï€ Ion Cage. Journal of the American Chemical Society, 2011, 133, 9376-9386.	13.7	63
59	Non-Equilibrium Isomer Distribution of the Gas-Phase Photoactive Yellow Protein Chromophore. Journal of Physical Chemistry Letters, 2012, 3, 2259-2263.	4.6	63
60	Peptide Length, Steric Effects, and Ion Solvation Govern Zwitterion Stabilization in Barium-Chelated Di- and Tripeptides. Journal of Physical Chemistry B, 2009, 113, 10552-10554.	2.6	62
61	Amide-I and -II Vibrations of the Cyclic Î²-Sheet Model Peptide Gramicidin S in the Gas Phase. Journal of the American Chemical Society, 2010, 132, 2085-2093.	13.7	62
62	Coordination of Trivalent Metal Cations to Peptides: Results from IRMPD Spectroscopy and Theory. Journal of Physical Chemistry A, 2010, 114, 854-860.	2.5	62
63	Alkali Metal Ion Binding to Glutamine and Glutamine Derivatives Investigated by Infrared Action Spectroscopy and Theory. Journal of Physical Chemistry A, 2008, 112, 8578-8584.	2.5	60
64	Infrared Multiple Photon Dissociation Spectroscopy of Cationized Histidine: Effects of Metal Cation Size on Gas-Phase Conformation. Journal of Physical Chemistry A, 2012, 116, 1532-1541.	2.5	59
65	Proton Affinity and Zwitterion Stability: New Results from Infrared Spectroscopy and Theory of Cationized Lysine and Analogues in the Gas Phase. Journal of Physical Chemistry A, 2009, 113, 431-438.	2.5	58
66	Infrared Multiple Photon Dissociation Action Spectroscopy of Proton-Bound Dimers of Cytosine and Modified Cytosines: Effects of Modifications on Gas-Phase Conformations. Journal of Physical Chemistry B, 2013, 117, 14191-14201.	2.6	58
67	IR Spectroscopic Techniques to Study Isolated Biomolecules. Topics in Current Chemistry, 2014, 364, 1-42.	4.0	58
68	Infrared multiple photon dynamics and spectroscopy of cationic PABA and its dehydroxylated fragment ion. Physical Chemistry Chemical Physics, 2004, 6, 710.	2.8	57
69	Structure of the Observable Histidine Radical Cation in the Gas Phase: A Captodative Î±â€Radical Ion. Angewandte Chemie - International Edition, 2008, 47, 9666-9668.	13.8	57
70	Dimeric Complexes of Tryptophan with M²⁺ Metal Ions. Journal of Physical Chemistry A, 2009, 113, 845-851.	2.5	57
71	Infrared multiple photon dissociation spectroscopy of cationized methionine: effects of alkali-metal cation size on gas-phase conformation. Physical Chemistry Chemical Physics, 2010, 12, 3384.	2.8	57
72	Infrared ion spectroscopy: New opportunities for small-molecule identification in mass spectrometry - A tutorial perspective. Analytica Chimica Acta, 2020, 1093, 1-15.	5.4	57

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73	Gas-Phase Conformations and Energetics of Protonated 2â€²-Deoxyadenosine and Adenosine: IRMPD Action Spectroscopy and Theoretical Studies. Journal of Physical Chemistry B, 2015, 119, 2795-2805.	2.6	56
74	Crown Ether Complexes with H₃O⁺ and NH₄⁺: Proton Localization and Proton Bridge Formation. Journal of Physical Chemistry A, 2011, 115, 7275-7282.	2.5	55
75	Vibrational spectroscopy of anionic nitrate complexes of UO₂²⁺and Eu³⁺isolated in the gas phase. Physical Chemistry Chemical Physics, 2008, 10, 1192-1202.	2.8	54
76	Isomer Population Analysis of Gaseous Ions From Infrared Multiple Photon Dissociation Kinetics. Journal of Physical Chemistry A, 2011, 115, 2745-2751.	2.5	54
77	Molecular identification in metabolomics using infrared ion spectroscopy. Scientific Reports, 2017, 7, 3363.	3.3	54
78	Infrared Spectroscopy of Discrete Uranyl Anion Complexes. Journal of Physical Chemistry A, 2008, 112, 508-521.	2.5	53
79	Mid-IRspectra of different conformers of phenylalanine in the gas phase. Physical Chemistry Chemical Physics, 2008, 10, 1248-1256.	2.8	53
80	Gas-phase infrared spectra of cationized nitrogen-substituted polycyclic aromatic hydrocarbons. Astronomy and Astrophysics, 2010, 517, A15.	5.1	52
81	Combined Liquid Chromatography-Infrared Ion Spectroscopy for Identification of Regioisomeric Drug Metabolites. Analytical Chemistry, 2017, 89, 4359-4362.	6.5	52
82	Infrared Multiple Photon Dissociation (IRMPD) Spectroscopy of the Proton-Bound Dimer of 1-Methylcytosine in the Gas Phase. Journal of Physical Chemistry Letters, 2010, 1, 2891-2897.	4.6	51
83	Metal ion binding to peptides: Oxygen or nitrogen sites?. International Journal of Mass Spectrometry, 2012, 330-332, 71-77.	1.5	51
84	Infrared Multiple Photon Dissociation Action Spectroscopy of Deprotonated DNA Mononucleotides: Gas-Phase Conformations and Energetics. Journal of Physical Chemistry A, 2013, 117, 1319-1335.	2.5	51
85	HIGH-RESOLUTION IR ABSORPTION SPECTROSCOPY OF POLYCYCLIC AROMATIC HYDROCARBONS: THE REALM OF ANHARMONICITY. Astrophysical Journal, 2015, 814, 23.	4.5	51
86	N3 and O2 Protonated Tautomeric Conformations of 2â€²-Deoxycytidine and Cytidine Coexist in the Gas Phase. Journal of Physical Chemistry B, 2015, 119, 5773-5784.	2.6	51
87	Vibrational spectroscopy of a non-aromatic amino acid-based model peptide: identification of the Î³-turn motif of the peptide backbone. Physical Chemistry Chemical Physics, 2005, 7, 13-15.	2.8	50
88	Infrared Spectra of Protonated Neurotransmitters: Serotonin. Journal of Physical Chemistry A, 2010, 114, 13268-13276.	2.5	50
89	Cationized phenylalanine conformations characterized by IRMPD and computation for singly and doubly charged ions. Physical Chemistry Chemical Physics, 2010, 12, 13383.	2.8	50
90	Rotationally resolved infrared spectroscopy of adamantane. Journal of Chemical Physics, 2012, 136, 024310.	3.0	50

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91	Dissociative Photoionization of Quinoline and Isoquinoline. Journal of Physical Chemistry A, 2015, 119, 1127-1136.	2.5	49
92	IRMPD Spectroscopy Sheds New (Infrared) Light on the Sulfate Pattern of Carbohydrates. Journal of Physical Chemistry A, 2017, 121, 2114-2120.	2.5	49
93	Effects of anions on the zwitterion stability of Glu, His and Arg investigated by IRMPD spectroscopy and theory. International Journal of Mass Spectrometry, 2010, 297, 116-123.	1.5	48
94	IRMPD Action Spectroscopy of Alkali Metal Cationâ€“Cytosine Complexes: Effects of Alkali Metal Cation Size on Gas Phase Conformation. Journal of the American Society for Mass Spectrometry, 2013, 24, 1523-1533.	2.8	47
95	Isotope dependent, temperature regulated, energy repartitioning in a low-barrier, short-strong hydrogen bonded cluster. Journal of Chemical Physics, 2010, 132, 244301.	3.0	46
96	Gasâ€Phase Peptide Structures Unraveled by Farâ€IR Spectroscopy: Combining IRâ€UV Ionâ€Dip Experiments with Bornâ€“Oppenheimer Molecular Dynamics Simulations. Angewandte Chemie - International Edition, 2014, 53, 3663-3666.	13.8	46
97	Interaction of Cu⁺ with cytosine and formation of i-motif-like Câ€“M⁺â€“C complexes: alkali versus coinage metals. Physical Chemistry Chemical Physics, 2016, 18, 7269-7277.	2.8	46
98	The anharmonic quartic force field infrared spectra of hydrogenated and methylated PAHs. Physical Chemistry Chemical Physics, 2018, 20, 1189-1197.	2.8	46
99	Interaction of Vibrational Fundamental and Combination States of Ethylene in the 3 Î¼m Region. Journal of Molecular Spectroscopy, 1997, 185, 31-47.	1.2	45
100	Infrared spectroscopic investigation of higher diamondoids. Journal of Molecular Spectroscopy, 2006, 238, 158-167.	1.2	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. Journal of Physical Chemistry B, 2011, 115, 12648-12661.	2.6	45
102	Vibrational study of isolated 18-crown-6 ether complexes with alkaline-earth metal cations. International Journal of Mass Spectrometry, 2011, 308, 217-224.	1.5	45
103	Gas-Phase Conformations and Energetics of Protonated 2â€²-Deoxyguanosine and Guanosine: IRMPD Action Spectroscopy and Theoretical Studies. Journal of Physical Chemistry B, 2014, 118, 14774-14784.	2.6	45
104	Infrared Spectroscopy of Gasâ€Phase Complexes of Fe+and Polycyclic Aromatic Hydrocarbon Molecules. Astrophysical Journal, 2006, 646, 666-680.	4.5	44
105	The Mid-IR Spectra of 9-Ethyl Guanine, Guanosine, and 2-Deoxyguanosine. Journal of Physical Chemistry A, 2007, 111, 7529-7536.	2.5	44
106	Unraveling the unknown areas of the human metabolome: the role of infrared ion spectroscopy. Journal of Inherited Metabolic Disease, 2018, 41, 367-377.	3.6	44
107	Vibrational and Electronic Spectroscopy of Acenaphthylene and Its Cation. Journal of Physical Chemistry A, 2003, 107, 782-793.	2.5	43
108	Conformational Preferences of an Amyloidogenic Peptide: IR Spectroscopy of Ac-VQIVYK-NHMe. Journal of the American Chemical Society, 2008, 130, 14640-14650.	13.7	43

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109	Oxazolone versus macrocycle structures for leu-enkephalin b₂â€“b₄: Insights from infrared multiple-photon dissociation spectroscopy and gas-phase hydrogen/deuterium exchange. Journal of the American Society for Mass Spectrometry, 2010, 21, 1313-1321.	2.8	42
110	Conformations and vibrational spectroscopy of metal-ion/polylalanine complexes. International Journal of Mass Spectrometry, 2010, 297, 107-115.	1.5	42
111	a₂ Ion Derived from Triglycine: An N₁-Protonated 4-Imidazolidinone. Journal of Physical Chemistry Letters, 2010, 1, 868-872.	4.6	42
112	Infrared Spectroscopy of Divalent Zinc and Cadmium Crown Ether Systems. Journal of Physical Chemistry A, 2011, 115, 5408-5422.	2.5	42
113	Gas-phase conformations of small polyprolines and their fragment ions by IRMPD spectroscopy. International Journal of Mass Spectrometry, 2015, 377, 179-187.	1.5	42
114	Spectroscopic evidence for the formation of pentalene⁺ in the dissociative ionization of naphthalene. Chemical Communications, 2016, 52, 2636-2638.	4.1	42
115	Evidence for the Role of Tetramethylethylenediamine in Aqueous Negishi Cross-Coupling: Synthesis of Nonproteinogenic Phenylalanine Derivatives on Water. Journal of Organic Chemistry, 2011, 76, 1727-1734.	3.2	41
116	IR Spectroscopy of Isolated Neutral and Protonated Adenine and 9â€Methyladenine. ChemPhysChem, 2011, 12, 1921-1927.	2.1	41
117	Peptide Bond Tautomerization Induced by Divalent Metal Ions: Characterization of the Iminol Configuration. Angewandte Chemie - International Edition, 2012, 51, 4591-4593.	13.8	41
118	IR-Spectroscopic Characterization of Acetophenone Complexes with Fe+, Co+, and Ni+Using Free-Electron-Laser IRMPDâ€. Journal of Physical Chemistry A, 2006, 110, 8316-8326.	2.5	40
119	Infrared Multiple Photon Dissociation Spectroscopy of Potassiated Proline. Journal of Physical Chemistry A, 2008, 112, 11972-11974.	2.5	40
120	Structure and Reactivity of the Cysteine Methyl Ester Radical Cation. Chemistry - A European Journal, 2011, 17, 873-879.	3.3	40
121	Diverse mixtures of 2,4-dihydroxy tautomers and O4 protonated conformers of uridine and 2â€²-deoxyuridine coexist in the gas phase. Physical Chemistry Chemical Physics, 2015, 17, 25978-25988.	2.8	40
122	The anharmonic quartic force field infrared spectra of five non-linear polycyclic aromatic hydrocarbons: Benz[a]anthracene, chrysene, phenanthrene, pyrene, and triphenylene. Journal of Chemical Physics, 2016, 145, 084313.	3.0	40
123	The FELion cryogenic ion trap beam line at the FELIX free-electron laser laboratory: infrared signatures of primary alcohol cations. Faraday Discussions, 2019, 217, 172-202.	3.2	40
124	Vibrational spectroscopy of gas-phase neutral and cationic phenanthrene in their electronic groundstates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 717-735.	3.9	38
125	Internal Proton Transfer Leading to Stable Zwitterionic Structures in a Neutral Isolated Peptide. Angewandte Chemie - International Edition, 2010, 49, 2332-2335.	13.8	38
126	Infrared multiple photon dissociation action spectroscopy of sodiated uracil and thiouracils: Effects of thioketo-substitution on gas-phase conformation. International Journal of Mass Spectrometry, 2011, 308, 191-202.	1.5	38

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127	Structure and Reactivity of theN-Acetyl-Cysteine Radical Cation and Anion: Does Radical Migration Occur?. Journal of the American Society for Mass Spectrometry, 2011, 22, 1794-803.	2.8	38
128	Infrared Spectroscopy of [XFeC₂₄H₁₂]⁺ (X =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (C<s Phase: Experimental and Computational Studies of Astrophysical Interest. Journal of Physical Chemistry A, 2008, 112, 8551-8560.	2.5	37
129	Observation of zwitterion formation in the gas-phase H/D-exchange with CH3OD: Solution-phase structures in the gas phase. Journal of the American Society for Mass Spectrometry, 2007, 18, 512-516.	2.8	36
130	Infrared Spectroscopy of Dioxouranium(V) Complexes with Solvent Molecules: Effect of Reduction. ChemPhysChem, 2008, 9, 1278-1285.	2.1	36
131	Infrared multiple photon dissociation action spectroscopy of protonated uracil and thiouracils: Effects of thioketo-substitution on gas-phase conformation. International Journal of Mass Spectrometry, 2010, 297, 139-151.	1.5	36
132	How does a small peptide choose how to bind a metal ion? IRMPD and computational survey of CS versus Iminol binding preferences. International Journal of Mass Spectrometry, 2013, 354-355, 356-364.	1.5	36
133	High-resolution IR absorption spectroscopy of polycyclic aromatic hydrocarbons in the 3â€‰Î¼m region: role of hydrogenation and alkylation. Astronomy and Astrophysics, 2018, 610, A65.	5.1	36
134	Evaluation of Hybrid Theoretical Approaches for Structural Determination of a Glycine-Linked Cisplatin Derivative via Infrared Multiple Photon Dissociation (IRMPD) Action Spectroscopy. Journal of Physical Chemistry A, 2015, 119, 10980-10987.	2.5	35
135	Gas-phase vibrational spectroscopy of triphenylamine: the effect of charge on structure and spectra. Physical Chemistry Chemical Physics, 2017, 19, 19881-19889.	2.8	35
136	The Glycosylation Mechanisms of 6,3â€‰Uronic Acid Lactones. Angewandte Chemie - International Edition, 2019, 58, 8746-8751.	13.8	35
137	Infrared Multiple Photon Dissociation Action Spectroscopy of Deprotonated RNA Mononucleotides: Gas-Phase Conformations and Energetics. Journal of Physical Chemistry A, 2013, 117, 10634-10649.	2.5	34
138	Collision-induced dissociation pathways of protonated Gly2NH2 and Gly3NH2 in the short time-scale limit by chemical dynamics and ion spectroscopy. International Journal of Mass Spectrometry, 2015, 388, 40-52.	1.5	34
139	N3 Protonation Induces Base Rotation of 2â€²-Deoxyadenosine-5â€²-monophosphate and Adenosine-5â€²-monophosphate. Journal of Physical Chemistry B, 2016, 120, 4616-4624.	2.6	34
140	Facile pentagon formation in the dissociation of polyaromatics. Physical Chemistry Chemical Physics, 2017, 19, 2974-2980.	2.8	34
141	Unravelling the Ketoâ€“Enol Tautomer Dependent Photochemistry and Degradation Pathways of the Protonated UVA Filter Avobenzone. Journal of Physical Chemistry A, 2020, 124, 2919-2930.	2.5	34
142	Mass-Spectrometry-Based Identification of Synthetic Drug Isomers Using Infrared Ion Spectroscopy. Analytical Chemistry, 2020, 92, 7282-7288.	6.5	34
143	H₂ Ejection from Polycyclic Aromatic Hydrocarbons: Infrared Multiphoton Dissociation Study of Protonated 1,2-Dihydronaphthalene. Journal of the American Chemical Society, 2009, 131, 5784-5791.	13.7	33
144	Stiff, and Sticky in the Right Places: Binding Interactions in Isolated Mechanically Interlocked Molecules Probed by Mid-Infrared Spectroscopy. Journal of the American Chemical Society, 2009, 131, 2428-2429.	13.7	33

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145	Structural characterization of gas-phase cysteine and cysteine methyl ester complexes with zinc and cadmium dications by infrared multiple photon dissociation spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 25799-25808.	2.8	33
146	Anharmonic simulations of the vibrational spectrum of sulfated compounds: application to the glycosaminoglycan fragment glucosamine 6-sulfate. Physical Chemistry Chemical Physics, 2015, 17, 25705-25713.	2.8	33
147	Untargeted metabolomics and infrared ion spectroscopy identify biomarkers for pyridoxine-dependent epilepsy. Journal of Clinical Investigation, 2021, 131, .	8.2	33
148	Controlled Hydrogenâ€Bond Breaking in a Rotaxane by Discrete Solvation. Angewandte Chemie - International Edition, 2010, 49, 3896-3900.	13.8	32
149	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizorokiâ€“Heck Reaction. Chemistry - A European Journal, 2019, 25, 16564-16572.	3.3	32
150	Reference-standard free metabolite identification using infrared ion spectroscopy. International Journal of Mass Spectrometry, 2019, 443, 77-85.	1.5	32
151	Competition between diketopiperazine and oxazolone formation in water loss products from protonated ArgGly and GlyArg. International Journal of Mass Spectrometry, 2012, 316-318, 12-17.	1.5	31
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