

Giel Berden

List of Publications by Year in descending order

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182
papers

4,032
citations

117625

34
h-index

189892

50
g-index

187
all docs

187
docs citations

187
times ranked

2752
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusion complexes of the macrocycle nonactin with benchmark protonated amines: aniline and serine. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8422-8431.	2.8	0
2	Unidirectional Double- and Triple-Hydrogen Rearrangement Reactions Probed by Infrared Ion Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, , .	2.8	0
3	Laboratory IR Spectra of the Ionic Oxidized Fullerenes C ₆₀ O ⁺ and C ₆₀ OH ⁺ . <i>Journal of Physical Chemistry A</i> , 2022, 126, 2928-2935.	2.5	5
4	Stabilization of Glucosyl Dioxolenium Ions by "Dual Participation" of the 2,2-Dimethyl-2-(<i>ortho</i> -nitrophenyl)acetyl (DMNPA) Protection Group for 1,2- <i>cis</i> -Glucosylation. <i>Journal of Organic Chemistry</i> , 2022, 87, 9139-9147.	3.2	11
5	Zinc and cadmium complexation of L-methionine: An infrared multiple photon dissociation spectroscopy and theoretical study. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4580.	1.6	4
6	Mechanistic examination of C ⁺ -C ⁺ tyrosyl bond cleavage: Spectroscopic investigation of the generation of L-glycyl radical cations from tyrosyl (glycyl/alanyl)tryptophan. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4630.	1.6	1
7	Breslow Intermediates (Amino Enols) and Their Keto Tautomers: First Gas-Phase Characterization by IR Ion Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 2662-2669.	3.3	20
8	Isomer-Specific Two-Color Double-Resonance IR ² MS ³ Ion Spectroscopy Using a Single Laser: Application in the Identification of Novel Psychoactive Substances. <i>Analytical Chemistry</i> , 2021, 93, 2687-2693.	6.5	22
9	IR photofragmentation of the phenyl cation: spectroscopy and fragmentation pathways. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4334-4343.	2.8	4
10	Proton in the ring: spectroscopy and dynamics of proton bonding in macrocycle cavities. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21532-21543.	2.8	5
11	Preferred protonation site of a series of sulfa drugs in the gas phase revealed by IR spectroscopy. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	11
12	Structural determination of arginine-linked cisplatin complexes <i>via</i> IRMPD action spectroscopy: arginine binds to platinum <i>via</i> NO ⁺ binding mode. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21959-21971.	2.8	6
13	Influence of a Hydroxyl Group on the Deamidation and Dehydration Reactions of Protonated Asparagine-Serine Investigated by Combined Spectroscopic, Guided Ion Beam, and Theoretical Approaches. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 786-805.	2.8	3
14	UV/Vis and IRMPD Spectroscopic Analysis of the Absorption Properties of Methylglyoxal Brown Carbon. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 910-919.	2.7	8
15	The Infrared Spectrum of Protonated C ₇₀ . <i>Astrophysical Journal Letters</i> , 2021, 909, L17.	8.3	9
16	Radical-Pairing Interactions in a Molecular Switch Evidenced by Ion Mobility Spectrometry and Infrared Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10049-10055.	13.8	11
17	Amadori rearrangement products as potential biomarkers for inborn errors of amino-acid metabolism. <i>Communications Biology</i> , 2021, 4, 367.	4.4	16
18	Radical-Pairing Interactions in a Molecular Switch Evidenced by Ion Mobility Spectrometry and Infrared Ion Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 10137-10143.	2.0	4

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19	Laboratory IR spectroscopy of protonated hexa-peri-hexabenzocoronene and dicoronylene. <i>Journal of Molecular Spectroscopy</i> , 2021, 378, 111474.	1.2	5
20	Generation, Characterization, and Dissociation of Radical Cations Derived from Propyl-glycyl-glycine. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6121-6129.	2.6	1
21	Characterization of Uranyl Coordinated by Equatorial Oxygen: Oxo in UO_3 versus Oxl in UO_3^{+} . <i>Journal of Physical Chemistry A</i> , 2021, 125, 5544-5555.	2.5	1
22	Infrared Multiple-Photon Dissociation Spectra of Sodiated Complexes of the Aliphatic Amino Acids. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6348-6355.	2.5	6
23	IRMPD Spectroscopy of Homo- and Heterochiral Asparagine Proton-Bound Dimers in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7449-7456.	2.5	3
24	Untargeted metabolomics and infrared ion spectroscopy identify biomarkers for pyridoxine-dependent epilepsy. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	33
25	An investigation of inter-ligand coordination and flexibility: IRMPD spectroscopic and theoretical evaluation of calcium and nickel histidine dimers. <i>Journal of Molecular Spectroscopy</i> , 2021, 381, 111532.	1.2	5
26	IRMPD Spectroscopy of $[PC(4:0/4:0) + M]^+$ ($M = H, Na, K$) and Corresponding CID Fragment Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2874-2884.	2.8	9
27	Infrared multiple photon dissociation action spectroscopy of protonated unsymmetrical dimethylhydrazine and proton-bound dimers of hydrazine and unsymmetrical dimethylhydrazine. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25877-25885.	2.8	2
28	Metabolite Identification Using Infrared Ion Spectroscopy—Novel Biomarkers for Pyridoxine-Dependent Epilepsy. <i>Analytical Chemistry</i> , 2021, 93, 15340-15348.	6.5	20
29	Evaluation of table-top lasers for routine infrared ion spectroscopy in the analytical laboratory. <i>Analyst</i> , 2021, 146, 7218-7229.	3.5	10
30	Infrared ion spectroscopy: New opportunities for small-molecule identification in mass spectrometry - A tutorial perspective. <i>Analytica Chimica Acta</i> , 2020, 1093, 1-15.	5.4	57
31	Influence of the local environment on the intrinsic structures of gas-phase cytidine-5'-monophosphates. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116234.	1.5	0
32	The infrared spectrum of protonated buckminsterfullerene $C_{60}H^+$. <i>Nature Astronomy</i> , 2020, 4, 240-245.	10.1	26
33	Mechanistic Study of Pd/NHC-Catalyzed Sonogashira Reaction: Discovery of NHC-Ethynyl Coupling Process. <i>Chemistry - A European Journal</i> , 2020, 26, 15672-15681.	3.3	12
34	Mass spectrometry-based identification of <i>ortho</i> -, <i>meta</i> - and <i>para</i> -isomers using infrared ion spectroscopy. <i>Analyst</i> , 2020, 145, 6162-6170.	3.5	13
35	Multipodal coordination and mobility of molecular cations inside the macrocycle valinomycin. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19725-19734.	2.8	3
36	Sodium cationization can disrupt the intramolecular hydrogen bond that mediates the sunscreen activity of oxybenzone. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19522-19531.	2.8	9

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37	Water Loss from Protonated XxxSer and XxxThr Dipeptides Gives Oxazolineâ€”Not Oxazoloneâ€”Product Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2111-2123.	2.8	6
38	Formation of n $\hat{+}$ $\hat{+}$ interaction facilitating dissociative electron transfer in isolated tyrosine-containing molecular peptide radical cations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21393-21402.	2.8	8
39	Characterization of glycosyl dioxolenium ions and their role in glycosylation reactions. <i>Nature Communications</i> , 2020, 11, 2664.	12.8	83
40	Dissociative electron transfer of copper(II) complexes of glycyl(glycyl/alanyl)tryptophan in vacuo: IRMPD action spectroscopy provides evidence of transition from zwitterionic to non-zwitterionic peptide structures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13084-13091.	2.8	3
41	Unravelling the Ketoâ€”Enol Tautomer Dependent Photochemistry and Degradation Pathways of the Protonated UVA Filter Avobenzone. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2919-2930.	2.5	34
42	Characterization of holmium(III)-acetylacetonate complexes derived from therapeutic microspheres by infrared ion spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15716-15722.	2.8	5
43	Vibrational Spectra of the Rutheniumâ€”Tris-Bipyridine Dication and Its Reduced Form in Vacuo. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2449-2459.	2.5	11
44	Identification of novel fragmentation pathways and fragment ion structures in the tandem mass spectra of protonated synthetic cathinones. <i>Forensic Chemistry</i> , 2020, 19, 100245.	2.8	18
45	Mass-Spectrometry-Based Identification of Synthetic Drug Isomers Using Infrared Ion Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 7282-7288.	6.5	34
46	IRMPD Spectroscopic and Theoretical Structural Investigations of Zinc and Cadmium Dications Bound to Histidine Dimers. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10266-10276.	2.5	6
47	A Combined Infrared Ion Spectroscopy and Computational Chemistry Study of Hydroxyproline Isomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1205-1211.	2.8	5
48	Hydrogen tunneling avoided: enol-formation from a charge-tagged phenyl pyruvic acid derivative evidenced by tandem-MS, IR ion spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16591-16600.	2.8	8
49	Characterization of protonated AcAlaDab and AcDabAla by IRMPD spectroscopy and molecular modeling. <i>International Journal of Mass Spectrometry</i> , 2019, 444, 116178.	1.5	1
50	Impact of Sodium Cationization on Gas-Phase Conformations of DNA and RNA Cytidine Mononucleotides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1758-1767.	2.8	4
51	Zinc and Cadmium Complexation of L -Threonine: An Infrared Multiple Photon Dissociation Spectroscopy and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9343-9354.	2.6	14
52	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizorokiâ€”Heck Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 16564-16572.	3.3	32
53	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. <i>Journal of Physical Chemistry A</i> , 2019, , .	2.5	0
54	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7528-7535.	2.6	3

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55	Spectroscopic Evidence for Lactam Formation in Terminal Ornithine b_{2+} and b_{3+} Fragment Ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1565-1577.	2.8	2
56	Protoisomerization of Indigo and Isoindigo Dyes Confirmed by Gas-Phase Infrared Ion Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8226-8233.	2.5	16
57	Measurement of the asymmetric UO_2^{2+} stretching frequency for $[UVIO_2(F)_3]^-$ using IRMPD spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116231.	1.5	1
58	Investigation of the position of the radical in z_{3-} ions resulting from electron transfer dissociation using infrared ion spectroscopy. <i>Faraday Discussions</i> , 2019, 217, 434-452.	3.2	12
59	Structures and Relative Glycosidic Bond Stabilities of Protonated 2-Fluoro-Substituted Purine Nucleosides. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1521-1536.	2.8	5
60	IRMPD action spectroscopy, ER-CID experiments, and theoretical approaches investigate intrinsic L-thymidine properties compared to D-thymidine: Findings support robust methodology. <i>International Journal of Mass Spectrometry</i> , 2019, 441, 32-43.	1.5	2
61	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.	1.5	67
62	Reference-standard free metabolite identification using infrared ion spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 77-85.	1.5	32
63	Infrared Ion Spectroscopy of Environmental Organic Mixtures: Probing the Composition of \pm -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2019, 53, 7604-7612.	10.0	19
64	Structures of $[GPGG\hat{A}^+ H \hat{A}^{\ominus} H_2O]^+$ and $[GPGG\hat{A}^+ H \hat{A}^{\ominus} H_2O \hat{A}^{\ominus} NH CH_2]^+$ ions; evidence of rearrangement prior to dissociation. <i>International Journal of Mass Spectrometry</i> , 2019, 442, 51-57.	1.5	0
65	Ion spectroscopy and guided ion beam studies of protonated asparaginyl-threonine decomposition: Influence of a hydroxyl containing C-Terminal residue on deamidation processes. <i>International Journal of Mass Spectrometry</i> , 2019, 442, 64-82.	1.5	6
66	Gas-Phase Infrared Ion Spectroscopy Characterization of $Cu(II/I)Cyclam$ and $Cu(II/I)2,2'$ -Bipyridine Redox Pairs. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4149-4157.	2.5	11
67	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.	3.2	40
68	A Cl^{\wedge} Hinge for Cyclen Macrocycles: Ionic Interactions and Tweezer-Like Complexes. <i>Frontiers in Chemistry</i> , 2019, 7, 143.	3.6	1
69	Impact of the 2- and 3-Sugar Hydroxyl Moieties on Gas-Phase Nucleoside Structure. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 832-845.	2.8	7
70	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of lysine complexes with Zn^{2+} and Cd^{2+} . <i>European Journal of Mass Spectrometry</i> , 2019, 25, 97-111.	1.0	10
71	Influence of 2-fluoro modification on glycosidic bond stabilities and gas-phase ion structures of protonated pyrimidine nucleosides. <i>Journal of Fluorine Chemistry</i> , 2019, 219, 10-22.	1.7	13
72	The importance of thermal dissociation in CO_2 microwave discharges investigated by power pulsing and rotational Raman scattering. <i>Plasma Sources Science and Technology</i> , 2019, 28, 055015.	3.1	55

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73	Gas-phase structures of protonated arabino nucleosides. <i>International Journal of Mass Spectrometry</i> , 2019, 438, 124-134.	1.5	7
74	Hydrogen atom transfer in the radical cations of tryptophan-containing peptides AW and WA studied by mass spectrometry, infrared multiple-photon dissociation spectroscopy, and theoretical calculations. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 112-121.	1.0	6
75	Gas-phase metal ion chelation investigated with IRMPD spectroscopy: A brief review of Robert Dunbar's contributions. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 86-96.	1.0	9
76	Deamidation of Protonated Asparagine-Valine Investigated by a Combined Spectroscopic, Guided Ion Beam, and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2424-2436.	2.5	13
77	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Aspartic Acid Complexes with Zn^{2+} and Cd^{2+} . <i>Journal of Physical Chemistry B</i> , 2018, 122, 3836-3853.	2.6	13
78	Direct Experimental Characterization of Glycosyl Cations by Infrared Ion Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 6034-6038.	13.7	68
79	Conformations of Protonated AlaDap and DapAla Characterized by IRMPD Spectroscopy and Molecular Modeling. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2191-2202.	2.6	7
80	Guanidinium/ammonium competition and proton transfer in the interaction of the amino acid arginine with the tetracarboxylic 18-crown-6 ionophore. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4067-4073.	2.8	16
81	Uranyl/12-crown-4 Ether Complexes and Derivatives: Structural Characterization and Isomeric Differentiation. <i>Inorganic Chemistry</i> , 2018, 57, 4125-4134.	4.0	6
82	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.	3.6	44
83	Intra-cavity proton bonding and anharmonicity in the anionophore cyclen. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8968-8975.	2.8	7
84	Conformations and N-glycosidic bond stabilities of sodium cationized 2'-deoxycytidine and cytidine: Solution conformation of [Cyd + Na] ⁺ is preserved upon ESI. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 18-27.	1.5	20
85	Dehydration reactions of protonated dipeptides containing asparagine or glutamine investigated by infrared ion spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 90-100.	1.5	8
86	Equatorial coordination of uranyl: Correlating ligand charge donation with the Oyl-U-Oyl asymmetric stretch frequency. <i>Journal of Organometallic Chemistry</i> , 2018, 857, 94-100.	1.8	6
87	Transition metal(II) complexes of histidine-containing tripeptides: Structures, and infrared spectroscopy by IRMPD. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 198-205.	1.5	11
88	Structural characterization of nucleotide 5'-triphosphates by infrared ion spectroscopy and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28319-28330.	2.8	20
89	Preferential host-guest coordination of nonactin with ammonium and hydroxylammonium. <i>Journal of Chemical Physics</i> , 2018, 149, 225101.	3.0	7
90	W-type ions formed by electron transfer dissociation of Cys-containing peptides investigated by infrared ion spectroscopy. <i>Journal of Mass Spectrometry</i> , 2018, 53, 1207-1213.	1.6	4

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91	Spectroscopic Characterization of an Extensive Set of <i>c</i> -Type Peptide Fragment Ions Formed by Electron Transfer Dissociation Suggests Exclusive Formation of Amide Isomers. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6404-6411.	4.6	5
92	Competition between salt bridge and non-zwitterionic structures in deprotonated amino acid dimers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15641-15652.	2.8	10
93	Binding of Divalent Metal Ions with Deprotonated Peptides: Do Gas-Phase Anions Parallel the Condensed Phase?. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5589-5596.	2.5	12
94	Complexes of Crown Ether Macrocycles with Methyl Guanidinium: Insights into the Capture of Charge in Peptides. <i>ChemPhysChem</i> , 2018, 19, 2169-2175.	2.1	4
95	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of arginine complexes with Zn ²⁺ and Cd ²⁺ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20712-20725.	2.8	10
96	Modified Quadrupole Ion Trap Mass Spectrometer for Infrared Ion Spectroscopy: Application to Protonated Thiated Uridines. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2125-2137.	2.8	20
97	Loss of water from protonated polyglycines: interconversion and dissociation of the product imidazolone ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18688-18698.	2.8	4
98	Gas-phase complexes of Ni ²⁺ and Ca ²⁺ with deprotonated histidylhistidine (HisHis): A model case for polyhistidyl-metal binding motifs. <i>Journal of Molecular Spectroscopy</i> , 2017, 332, 38-44.	1.2	22
99	Gas-phase vibrational spectroscopy of triphenylamine: the effect of charge on structure and spectra. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19881-19889.	2.8	35
100	Water Microsolvation Can Switch the Binding Mode of Ni(II) with Small Peptides. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2634-2638.	4.6	12
101	Effects of sodium cationization versus protonation on the conformations and N-glycosidic bond stabilities of sodium cationized Urd and dUrd: solution conformation of [Urd+Na] ⁺ is preserved upon ESI. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17637-17652.	2.8	20
102	Isolated alkali cation complexes of the antibiotic ionophore nonactin: correlation with crystalline structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14984-14991.	2.8	4
103	Molecular identification in metabolomics using infrared ion spectroscopy. <i>Scientific Reports</i> , 2017, 7, 3363.	3.3	54
104	Experimental and theoretical investigations of infrared multiple photon dissociation spectra of glutamic acid complexes with Zn ²⁺ and Cd ²⁺ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12394-12406.	2.8	24
105	Combined Liquid Chromatography-Infrared Ion Spectroscopy for Identification of Regioisomeric Drug Metabolites. <i>Analytical Chemistry</i> , 2017, 89, 4359-4362.	6.5	52
106	Gas-Phase Conformations and N-Glycosidic Bond Stabilities of Sodium Cationized 2 α -Deoxyguanosine and Guanosine: Sodium Cations Preferentially Bind to the Guanine Residue. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4048-4060.	2.6	24
107	Hydrogen Tunneling above Room Temperature Evidenced by Infrared Ion Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 5779-5786.	13.7	28
108	Benchmark Ditopic Binding of Cl ⁻ and Cs ⁺ by the Macrocycle Hexacyclen. <i>ChemPhysChem</i> , 2017, 18, 1324-1332.	2.1	8

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109	Preparation of Labile Ni ⁺ (cyclam) Cations in the Gas Phase Using Electron-Transfer Reduction through Ion-Ion Recombination in an Ion Trap and Structural Characterization with Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5047-5052.	4.6	17
110	Cleaving Off Uranyl Oxygens through Chelation: A Mechanistic Study in the Gas Phase. <i>Inorganic Chemistry</i> , 2017, 56, 12930-12937.	4.0	23
111	Probing the geometry reorganization from solution to gas-phase in putrescine derivatives by IRMPD, ¹ H-NMR and theoretical calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24330-24340.	2.8	10
112	Hydrogen Liberation from Gaseous 2-Bora-1,3-diazacycloalkanium Cations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7910-7916.	2.5	0
113	Ergothioneine and related histidine derivatives in the gas phase: tautomer structures determined by IRMPD spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23362-23372.	2.8	13
114	Isolated complexes of the amino acid arginine with polyether and polyamine macrocycles, the role of proton transfer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31345-31351.	2.8	25
115	The intrinsic basicity of the phosphate backbone exceeds that of uracil and thymine residues: protonation of the phosphate moiety is preferred over the nucleobase for pThd and pUrd. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30351-30361.	2.8	14
116	N ₃ and O ₂ Protonated Conformers of the Cytosine Mononucleotides Coexist in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1638-1646.	2.8	17
117	Intramolecular proton transfer from one ether oxygen to another. <i>International Journal of Mass Spectrometry</i> , 2017, 418, 188-192.	1.5	3
118	IRMPD Action Spectroscopy, ER-CID Experiments, and Theoretical Studies of Sodium Cationized Thymidine and 5-Methyluridine: Kinetic Trapping During the ESI Desolvation Process Preserves the Solution Structure of [Thd+Na] ⁺ . <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2423-2437.	2.8	22
119	Deamidation reactions of protonated asparagine and glutamine investigated by ion spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 483-490.	1.5	15
120	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.	1.3	150
121	Deamidation Reactions of Asparagine- and Glutamine-Containing Dipeptides Investigated by Ion Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1855-1869.	2.8	24
122	Structures of Fluoranthene Reagent Anions Used in Electron Transfer Dissociation and Proton Transfer Reaction Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 6126-6129.	6.5	22
123	N ₃ Protonation Induces Base Rotation of 2-Deoxyadenosine-5-monophosphate and Adenosine-5-monophosphate. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4616-4624.	2.6	34
124	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinide-Carbon Bonds. <i>Organometallics</i> , 2016, 35, 1228-1240.	2.3	30
125	Electronic structure and characterization of a uranyl di-15-crown-5 complex with an unprecedented sandwich structure. <i>Chemical Communications</i> , 2016, 52, 12761-12764.	4.1	21
126	Zn ²⁺ and Cd ²⁺ cationized serine complexes: infrared multiple photon dissociation spectroscopy and density functional theory investigations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22434-22445.	2.8	21

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127	Influence of Sodium Cationization versus Protonation on the Gas-Phase Conformations and Glycosidic Bond Stabilities of 2'-Deoxyadenosine and Adenosine. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8892-8904.	2.6	24
128	Experimental and Theoretical Investigations of Infrared Multiple Photon Dissociation Spectra of Asparagine Complexes with Zn ²⁺ and Cd ²⁺ and Their Deamidation Processes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12486-12500.	2.6	16
129	Complexes of Ni(II) and Cu(II) with small peptides: deciding whether to deprotonate. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26923-26932.	2.8	20
130	BREAKDOWN PRODUCTS OF GASEOUS POLYCYCLIC AROMATIC HYDROCARBONS INVESTIGATED WITH INFRARED ION SPECTROSCOPY. <i>Astrophysical Journal</i> , 2016, 826, 33.	4.5	21
131	Protonation induces base rotation of purine nucleotides pGuo and pGuo. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15081-15090.	2.8	23
132	IRMPD Spectroscopy of Metalated Flavins: Structure and Bonding of Lumiflavin Complexes with Alkali and Coinage Metal Ions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8297-8308.	2.5	22
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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