Asuka Fujii

List of Publications by Year
in descending order

160 papers	5,922 citations	70961 41 h-index	88477 70 g-index
165 all docs	165 docs citations	165 times ranked	3471 citing authors

#	Article	IF	Citations
1	Infrared Spectroscopic Evidence for Protonated Water Clusters Forming Nanoscale Cages. Science, 2004, 304, 1134-1137.	6.0	493
2	Vibrational spectroscopy of small-sized hydrogen-bonded clusters and their ions. International Reviews in Physical Chemistry, 1998, 17, 331-361.	0.9	361
3	Nature and physical origin of CH/Ï€ interaction: significant difference from conventional hydrogen bonds. Physical Chemistry Chemical Physics, 2008, 10, 2584.	1.3	311
4	Infrared Spectroscopy of Hydrogen-Bonded Phenolâ^'Amine Clusters in Supersonic Jets. The Journal of Physical Chemistry, 1996, 100, 16053-16057.	2.9	147
5	Magnitude of the CH/Ï€ Interaction in the Gas Phase:Â Experimental and Theoretical Determination of the Accurate Interaction Energy in Benzene-methane. Journal of Physical Chemistry A, 2006, 110, 4397-4404.	1.1	139
6	Magnitude and Directionality of the Interaction Energy of the Aliphatic CH/Ï€ Interaction:â€‰ Significant Difference from Hydrogen Bond. Journal of Physical Chemistry A, 2006, 110, 10163-10168.	1.1	124
7	Magnitude and Nature of Interactions in Benzeneâ^'X (X = Ethylene and Acetylene) in the Gas Phase:â€‰ Significantly Different CH/Ï€ Interaction of Acetylene As Compared with Those of Ethylene and Methane. Journal of Physical Chemistry A, 2007, 111, 753-758.	1.1	110
8	Infrared photodissociation spectroscopy of H+(H2O)6Â·Mm (M = Ne, Ar, Kr, Xe, H2, N2, and CH4): messenger-dependent balance between H3O+ and H5O2+ core isomers. Physical Chemistry Chemical Physics, 2011, 13, 7129.	1.3	107
9	Origin of the Attraction in Aliphatic Câ^'H/Ï€ Interactions:Â Infrared Spectroscopic and Theoretical Characterization of Gas-Phase Clusters of Aromatics with Methane. Journal of Physical Chemistry A, 2006, 110, 10583-10590.	1.1	99
10	Infrared Spectra and Hydrogenâ€Bonded Network Structures of Large Protonated Water Clusters H⁺(H₂O)_n (n=20â€“200). Angewandte Chemie - International Edition, 2010, 49, 10119-10122.	7.2	93
11	Characterization of the Hydrogen-Bonded Cluster Ions [Phenolâ^'(H2O)n]+(n= 1â^'4), (Phenol)2+, and (Phenolâ^'Methanol)+As Studied by Trapped Ion Infrared Multiphoton Dissociation Spectroscopy of Their OH Stretching Vibrations. The Journal of Physical Chemistry, 1996, 100, 8131-8138.	2.9	88
12	Vibrational spectroscopy of size-selected neutral and cationic clusters combined with vacuum-ultraviolet one-photon ionization detection. Physical Chemistry Chemical Physics, 2009, 11, 1279.	1.3	87
13	Infrared spectroscopic studies on hydrogen-bonded water networks in gas phase clusters. International Reviews in Physical Chemistry, 2013, 32, 266-307.	0.9	87
14	Structural trends of ionized water networks: Infrared spectroscopy of watercluster radical cations (H2O)n+ (n = 3â€“11). Chemical Science, 2011, 2, 868-876.	3.7	80
15	Infrared spectroscopy of hydrated benzene cluster cations, [C6H6-(H2O)n]+ (nâ€‰=â€‰1â€“6): Structural changes upon photoionization and proton transfer reactions. Physical Chemistry Chemical Physics, 2003, 5, 1137-1148.	1.3	79
16	Infrared dissociation spectroscopy of the OH stretching vibration of phenolâ€”rare gas van der Waals cluster ions. Chemical Physics Letters, 1994, 225, 104-107.	1.2	77
17	Experimental and theoretical determination of the accurate interaction energies in benzeneâ€“halomethane: the unique nature of the activated CH/Ï€ interaction of haloalkanes. Physical Chemistry Chemical Physics, 2008, 10, 2836.	1.3	77
18	An Infrared Study of Ï€-Hydrogen Bonds in Micro-solvated Phenol:Â OH Stretching Vibrations of Phenolâ^'X (X = C6H6, C2H4, and C2H2) Clusters in the Neutral and Cationic Ground States. Journal of Physical Chemistry A, 2002, 106, 8554-8560.	1.1	76

#	Article	IF	Citations
19	Tuning of the Internal Energy and Isomer Distribution in Small Protonated Water Clusters H⁺(H₂O)_{4â€“8}: An Application of the Inert Gas Messenger Technique. Journal of Physical Chemistry A, 2012, 116, 4868-4877.	1.1	75
20	Infrared spectroscopy of OH stretching vibrations of hydrogenâ€bonded tropoloneâ€(H2O)n (n=1â€“3) and tropoloneâ€(CH3OH)n (n=1 and 2) clusters. Journal of Chemical Physics, 1996, 105, 2618-2627.	1.2	72
21	Autoionization-detected infrared spectroscopy of intramolecular hydrogen bonds in aromatic cations. I. Principle and application to fluorophenol and methoxyphenol. Journal of Chemical Physics, 1999, 110, 4238-4247.	1.2	69
22	Infrared spectroscopy of CH stretching vibrations of jet-cooled alkylbenzene cations by using the â€œmessengerâ€•technique. Journal of Chemical Physics, 2000, 112, 6275-6284.	1.2	68
23	A Molecular Cluster Study on Activated CH/Ï€ Interactions:Â Infrared Spectroscopy of Aromatic Moleculeâ^'Acetylene Clusters. Journal of Physical Chemistry A, 2004, 108, 2652-2658.	1.1	67
24	Structures of size-selected hydrogen-bonded phenol-(H2O)n clusters in S0, S1 and ion. International Journal of Mass Spectrometry and Ion Processes, 1996, 159, 111-124.	1.9	63
25	Infrared spectroscopy of the benzeneâ€“H2O cluster cation: experimental study on the drastic structural change upon photoionization. Chemical Physics Letters, 2001, 349, 431-436.	1.2	63
26	Infrared spectroscopy of the phenol-N2 cluster in S0 and D0: Direct evidence of the in-plane structure of the cluster. Journal of Chemical Physics, 1999, 110, 11125-11128.	1.2	61
27	Autoionization-Detected Infrared Spectroscopy of Molecular Ions. Journal of Physical Chemistry A, 1997, 101, 5963-5965.	1.1	59
28	Infrared Spectroscopy of the OH Stretching Vibrations of Jet-Cooled Salicylic Acid and Its Dimer in S0 and S1. Journal of Physical Chemistry A, 2001, 105, 10673-10680.	1.1	59
29	Comprehensive characterization of the photodissociation pathways of protonated tryptophan. Journal of Chemical Physics, 2007, 127, 134313.	1.2	59
30	The Intermolecular Sï£¿Hâ‹…â‹…â‹…Y (Y=S,O) Hydrogen Bond in the H₂S Dimer and the H₂Sâ€“MeOH Complex. ChemPhysChem, 2013, 14, 905-914.	1.0	56
31	Infrared Spectroscopy of Size-Selected Benzeneâ^'Water Cluster Cations [C6H6â^'(H2O)n]+ (n = 1â^'23): Hydrogen Bond Network Evolution and Microscopic Hydrophobicity. Journal of Physical Chemistry A, 2004, 108, 10656-10660.	1.1	55
32	Infrared Spectroscopy of Phenolâ^'(H₂O)_{n>10}: Structural Strains in Hydrogen Bond Networks of Neutral Water Clusters. Journal of Physical Chemistry A, 2009, 113, 12134-12141.	1.1	55
33	CH/Ï€ interactions in methane clusters with polycyclic aromatic hydrocarbons. Physical Chemistry Chemical Physics, 2008, 10, 2860.	1.3	54
34	Experimental and theoretical determination of the accurate CH/Ï€ interaction energies in benzeneâ€“alkane clusters: correlation between interaction energy and polarizability. Physical Chemistry Chemical Physics, 2011, 13, 14131.	1.3	52
35	Vibrational spectroscopic evidence of unconventional hydrogen bonds. International Journal of Mass Spectrometry, 2002, 220, 289-312.	0.7	51
36	Morphology of Protonated Methanol Clusters:â€‰ An Infrared Spectroscopic Study of Hydrogen Bond Networks of H+(CH3OH)n (n = 4â^'15). Journal of Physical Chemistry A, 2005, 109, 138-141.	1.1	51

#	Article	IF	Citations
37	Spectral Signatures of Four-Coordinated Sites in Water Clusters: Infrared Spectroscopy of Phenolâ^'(H₂O)_n (â^¼420 â‰ n â‰ â^¼450). Journal of Physical Chemistry A, 2011, 115, 620-625.	1.1	50
38	Characterization of a Solvent-Separated Ion-Radical Pair in Cationized Water Networks: Infrared Photodissociation and Ar-Attachment Experiments for Water Cluster Radical Cations (H₂O)_n⁺ (n = 3â€“8). Journal of Physical Chemistry A, 2013, 117, 929-938.	1.1	49
39	NH Stretching Vibrations of Jet-Cooled Aniline and Its Derivatives in the Neutral and Cationic Ground States. Journal of Physical Chemistry A, 2003, 107, 3678-3686.	1.1	48
40	Direct Observation of Weak Hydrogen Bonds in Microsolvated Phenol: Infrared Spectroscopy of OH Stretching Vibrations of Phenolâ^'CO and â^'CO2 in S0 and D0. Journal of Physical Chemistry A, 2002, 106, 10124-10129.	1.1	47
41	Long range influence of an excess proton on the architecture of the hydrogen bond network in large-sized water clusters. Journal of Chemical Physics, 2007, 126, 231101.	1.2	46
42	Infrared spectroscopy of size-selected neutral clusters combined with vacuum-ultraviolet-photoionization mass spectrometry. Chemical Physics Letters, 2006, 422, 378-381.	1.2	41
43	Infrared Spectroscopy of Intramolecular Hydrogen-Bonded OH Stretching Vibrations in Jet-Cooled Methyl Salicylate and Its Clusters. Journal of Physical Chemistry A, 1998, 102, 9779-9784.	1.1	40
44	Photodetachment of small water cluster anions in the near-infrared through the visible region. Chemical Physics Letters, 1997, 264, 292-296.	1.2	36
45	Electronic spectroscopy of benzeneâ€“water cluster cations, [C6H6â€“(H2O)n]+ (n=1â€“4): spectroscopic evidence for phenyl radical formation through size-dependent intracluster proton transfer reactions. Chemical Physics Letters, 2004, 399, 412-416.	1.2	35
46	Binding Energy of the Benzeneâ^'Water Cluster Cation:Â An Ar-Mediated IR Photodissociation Study. Journal of Physical Chemistry A, 2004, 108, 8269-8272.	1.1	35
47	Folding of the Hydrogen Bond Network of H+(CH3OH)7 with Rare Gas Tagging. Journal of Physical Chemistry A, 2013, 117, 101-107.	1.1	35
48	Infrared predissociation spectroscopy of cluster cations of protic molecules, (NH[sub 3])[sub n]+], n=2â€“4 and (CH[sub 3]OH)[sub n]+], n=2,3. Journal of Chemical Physics, 2008, 129, 094306.	1.2	34
49	A direct experimental evidence for an aromatic Câ€“Hâ‹¯O hydrogen bond by fluorescence-detected infrared spectroscopy. Chemical Physics Letters, 2004, 394, 45-48.	1.2	33
50	Laser investigation of the competition between rotational autoionization and predissociation in superexcitednpRydberg states of NO. Journal of Chemical Physics, 1993, 98, 4581-4585.	1.2	32
51	Autoionization-detected infrared spectroscopy of intramolecular hydrogen bonds in aromatic cations. II. Unconventional intramolecular hydrogen bonds. Journal of Chemical Physics, 2000, 112, 137-148.	1.2	31
52	Characterization of neutral fragments issued from the photodissociation of protonated tryptophane. Physical Chemistry Chemical Physics, 2007, 9, 5330.	1.3	31
53	Structures of hydrogen bond networks formed by a few tens of methanol molecules in the gas phase: size-selective infrared spectroscopy of neutral and protonated methanol clusters. Physical Chemistry Chemical Physics, 2013, 15, 9523.	1.3	31
54	An ab initio anharmonic approach to study vibrational spectra of small ammonia clusters. Physical Chemistry Chemical Physics, 2016, 18, 30498-30506.	1.3	31

#	Article	IF	Citations
55	Rotational state dependence of decay dynamics in the superexcited 7fRydberg state (Ï...=1) of NO. Journal of Chemical Physics, 1992, 97, 327-334.	1.2	30
56	A New Type of Intramolecular Hydrogen Bonding:Â Hydroxylâ^'Methyl Interactions in theo-Cresol Cation. Journal of the American Chemical Society, 1998, 120, 13256-13257.	6.6	30
57	Infrared spectroscopy of large-sized neutral and protonated ammonia clusters. Physical Chemistry Chemical Physics, 2014, 16, 7595-7601.	1.3	30
58	Threeâ€¢color triple resonance spectroscopy of highly excited ng Rydberg states of NO: Decay dynamics of highâ€• Rydberg states. Journal of Chemical Physics, 1995, 103, 6029-6039.	1.2	29
59	Production of rotationally state selected ions by resonant enhanced multiphoton ionization of CO in a supersonic free jet. Chemical Physics Letters, 1989, 161, 93-97.	1.2	28
60	Detection of nitrogen atoms produced by predissociation of superexcited Rydberg states of NO. Chemical Physics Letters, 1991, 182, 304-309.	1.2	28
61	Structural Origin of the Antimagic Number in Protonated Water Clusters H⁺(H₂O)_n: Spectroscopic Observation of the â€œMissingâ€• Water Molecule in the Outermost Hydration Shell. Journal of Physical Chemistry Letters, 2011, 2, 2130-2134.	2.1	28
62	Infrared spectroscopy of large protonated water clusters H+(H2O)20â€“50 cooled by inert gas attachment. Chemical Physics, 2013, 419, 2-7.	0.9	28
63	Nascent rotational distribution and the relaxation of the N+2ion produced by double resonant multiphoton ionization. Journal of Chemical Physics, 1988, 88, 5307-5313.	1.2	27
64	A study on aromatic Câ€“Hâ‹¯X (X=N, O) hydrogen bonds in 1,2,4,5-tetrafluorobenzene clusters using infrared spectroscopy and ab initio calculations. Chemical Physics Letters, 2005, 409, 57-62.	1.2	27
65	Theoretical Analyses of the Morphological Development of the Hydrogen Bond Network in Protonated Methanol Clusters. Journal of Physical Chemistry A, 2007, 111, 9438-9445.	1.1	27
66	Catalytic Action of a Single Water Molecule in a Protonâ€Migration Reaction. Angewandte Chemie - International Edition, 2010, 49, 4898-4901.	7.2	27
67	Spectroscopic observation of two-center three-electron bonded (hemi-bonded) structures of (H₂S)_n⁺ clusters in the gas phase. Chemical Science, 2017, 8, 2667-2670.	3.7	27
68	Compatibility between methanol and water in the three-dimensional cage formation of large-sized protonated methanol-water mixed clusters. Journal of Chemical Physics, 2007, 126, 194306.	1.2	26
69	Photodissociation of formic acid: internal state distribution of hydroxyl fragment. The Journal of Physical Chemistry, 1987, 91, 6095-6097.	2.9	25
70	Photodissociation of NO2 at 355 nm: pair correlation. Chemical Physics Letters, 1997, 277, 33-38.	1.2	25
71	Laser Spectroscopic Investigation of Salicylic Acids Hydrogen Bonded with Water in Supersonic Jets:Â Microsolvation Effects for Excited State Proton Dislocation. Journal of Physical Chemistry A, 2005, 109, 2498-2504.	1.1	25
72	Acidâ€“Base Formalism in Dispersion-Stabilized Sâ€“HÂ·Â·Â·Y (Yâ•O, S) Hydrogen-Bonding Interactions. Journal of Physical Chemistry A, 2015, 119, 1117-1126.	1.1	25

#	Article	IF	Citations
73	Fermi resonance in solvated H₃O⁺: a counter-intuitive trend confirmed via a joint experimental and theoretical investigation. Physical Chemistry Chemical Physics, 2018, 20, 13836-13844.	1.3	25
74	Infrared spectroscopy of precursor clusters for nucleophilic substitution reactions: fluorobenzene-(CH3OH)n (n = 1 and 2). Chemical Physics Letters, 1996, 256, 1-7.	1.2	24
75	Infrared Spectroscopy of (Phenol)n+(n= 2â^'4) and (Phenolâ^'Benzene)+Cluster Ions. Journal of Physical Chemistry A, 1997, 101, 1798-1803.	1.1	24
76	Infrared and ab Initio Studies on 1,2,4,5-Tetrafluorobenzene Clusters with Methanol and 2,2,2-Trifluoroethanol:Â Presence and Absence of an Aromatic Câ^'HÂ·Â·Â·O Hydrogen Bond. Journal of Physical Chemistry A, 2005, 109, 915-921.	1.1	24
77	Infrared Spectroscopy of Protonated Phenolâ€"Water Clusters. Journal of Physical Chemistry A, 2018, 122, 5822-5831.	1.1	24
78	Autoionization-detected infrared spectroscopy of jet-cooled aromatic cations in the gas phase: CH stretching vibrations of isolated p-ethylphenol cations. Chemical Physics Letters, 1999, 303, 289-294.	1.2	23
79	Size-Selected Infrared Predissociation Spectroscopy of Neutral and Cationic Formamideâ^'Water Clusters: Stepwise Growth of Hydrated Structures and Intracluster Hydrogen Transfer Induced by Vacuum-Ultraviolet Photoionization. Journal of Physical Chemistry A, 2008, 112, 6840-6849.	1.1	23
80	Isomer-selective infrared spectroscopy of the cationic trimethylamine dimer to reveal its charge sharing and enhanced acidity of the methyl groups. Physical Chemistry Chemical Physics, 2014, 16, 9619-9624.	1.3	23
81	Hydrogen-bonded ring closing and opening of protonated methanol clusters H⁺(CH₃OH)_n (n = 4â€"8) with the inert gas tagging. Physical Chemistry Chemical Physics, 2015, 17, 22042-22053.	1.3	23
82	Substitution effects on the excited-state intramolecular proton transfer of salicylic acid: an infrared spectroscopic study on the OH stretching vibrations of jet-cooled 5-methoxysalicylic acid. Chemical Physics Letters, 2003, 376, 788-793.	1.2	22
83	Intermolecular proton-transfer in acetic acid clusters induced by vacuum-ultraviolet photoionization. Journal of Chemical Physics, 2009, 131, 184304.	1.2	22
84	Long-Range Migration of a Water Molecule To Catalyze a Tautomerization in Photoionization of the Hydrated Formamide Cluster. Journal of Physical Chemistry A, 2010, 114, 11896-11899.	1.1	21
85	Hydrogen bond network structures of protonated short-chain alcohol clusters. Physical Chemistry Chemical Physics, 2018, 20, 14971-14991.	1.3	21
86	Autoionization-Detected Infrared Spectroscopy of Jet-Cooled Naphthol Cations. Journal of Physical Chemistry A, 2000, 104, 7227-7232.	1.1	20
87	Complete infrared spectroscopic characterization of phenol-borane-trimethylamine dihydrogen-bonded complex in the gas phase. Journal of Chemical Physics, 2006, 124, 241103.	1.2	20
88	Observation of an Isolated Intermediate of the Nucleophilic Aromatic Substition Reaction by Infrared Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 6008-6010.	7.2	20
89	Comprehensive Analysis of the Hydrogen Bond Network Morphology and OH Stretching Vibrations in Protonated Methanolâ^'Water Mixed Clusters, H⁺(MeOH)₁(H₂O)_n (n = 1â^'8). Journal of Physical Chemistry A, 2008, 112, 10125-10133.	1.1	19
90	Infrared and Electronic Spectroscopy of Benzeneâ^'Ammonia Cluster Radical Cations [C₆H₆(NH₃)_{1,2}]⁺: Observation of Isolated and Microsolvated Ïƒ-Complexes. Journal of Physical Chemistry A, 2010, 114, 11060-11069.	1.1	19

#	Article	IF	Citations
91	An infrared spectroscopic and theoretical study on (CH₃)₃Nâ€“H⁺â€“(H₂O)_n, n = 1â€“22: highly polarized hydrogen bond networks of hydrated clusters. Physical Chemistry Chemical Physics, 2015, 17, 25863-25876.	1.3	19
92	Infrared Spectroscopic Investigation of Photoionization-Induced Acidic Câ€“H Bonds in Cyclic Ethers. Journal of Physical Chemistry A, 2015, 119, 5668-5675.	1.1	19
93	Spectral Characterization of Three-Electron Two-Center (3eâ€“2c) Bonds of Gaseous CH₃SâˆS(H)CH₃ and (CH₃SH)₂⁺ and Enhancement of the 3eâ€“2c Bond upon Protonation. Journal of Physical Chemistry Letters, 2018, 9, 3725-3730.	2.1	19
94	Infrared and Electronic Spectroscopy of a Model System for the Nucleophilic Substitution Intermediate in the Gas Phase:â€‰ The Câ€”N Valence Bond Formation in the Benzeneâ€”Ammonia Cluster Cation. Journal of Physical Chemistry A, 2006, 110, 6387-6390.	1.1	18
95	Anticooperative Effect Induced by Mixed Solvation in H⁺(CH₃OH)_m(H₂O)_n (m + n = 5 and 6): A Theoretical and Infrared Spectroscopic Study. Journal of Physical Chemistry A, 2010, 114, 8170-8177.	1.1	18
96	Experimental and theoretical investigations of isomerization reactions of ionized acetone and its dimer. Physical Chemistry Chemical Physics, 2012, 14, 712-719.	1.3	17
97	Infrared Spectroscopy of Warm and Neutral Phenolâ€“Water Clusters. Journal of Physical Chemistry A, 2015, 119, 1315-1322.	1.1	17
98	Vacuum ultravioletâ€“visible double resonance spectroscopy of NO. Observation of the high excited ns and nd Rydberg series. Journal of Chemical Physics, 1989, 90, 6993-6999.	1.2	15
99	Laser Spectroscopic Investigation of High Rydberg States of no: Decay Dynamics Near the First Ionization Threshold. Laser Chemistry, 1994, 13, 259-271.	0.5	15
100	Observation of Intramolecular Hydrogen Bonds ofo-Fluorophenol Ions by Using Autoionization Detected Infrared Spectroscopy. Chemistry Letters, 1997, 26, 1099-1100.	0.7	15
101	Infrared predissociation spectroscopy of ammonia cluster cations (NH3)n+ (n=2â€“4) produced by vacuum-ultraviolet photoionization. Journal of Chemical Physics, 2006, 125, 164320.	1.2	15
102	Proton location in (CH3)3N-H+-(CH3OH) : A theoretical and infrared spectroscopic study. Chemical Physics, 2013, 421, 1-9.	0.9	15
103	Laser-induced fluorescence of jet-cooled chlorotoluene molecules. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 92, 1-5.	2.0	14
104	Infrared spectroscopy for acetone and its dimer based on photoionization detection with tunable coherent vacuum-ultraviolet light. Chemical Physics Letters, 2009, 471, 50-53.	1.2	14
105	Structures and Dissociation Channels of Protonated Mixed Clusters around a Small Magic Number: Infrared Spectroscopy of ((CH₃)₃N)_nâ€“H⁺â€“H₂O (n =) Tj ETQq1 1 0.784314 rg	1.1	14
106	Stepwise Internal Energy Change of Protonated Methanol Clusters By Using the Inert Gas Tagging. Journal of Physical Chemistry A, 2016, 120, 9203-9208.	1.1	14
107	Strong Fermi Resonance Associated with Proton Motions Revealed by Vibrational Spectra of Asymmetric Protonâ€Bound Dimers. Angewandte Chemie - International Edition, 2021, 60, 1936-1941.	7.2	14
108	Two-color double resonant multiphoton ionization of nitrogen and the LIF detection of nitrogen molecule ion (1+) produced by multiphoton ionization. The Journal of Physical Chemistry, 1987, 91, 3125-3128.	2.9	13

#	Article	IF	Citations
109	Electronic and Infrared Spectroscopy of [Benzeneâˆ'(Methanol)n]+(n= 1âˆ'6). Journal of Physical Chemistry A, 2005, 109, 9471-9480.	1.1	13
110	Vibrational spectroscopy of protonated amineâ€"water clusters: tuning Fermi resonance and lighting up dark states. Physical Chemistry Chemical Physics, 2020, 22, 22035-22046.	1.3	13
111	Understanding Fermi resonances in the complex vibrational spectra of the methyl groups in methylamines. Physical Chemistry Chemical Physics, 2021, 23, 3739-3747.	1.3	13
112	Comprehensive Analysis on the Structure and Proton Switch in H⁺(CH₃OH)_m(H₂O)_n (m + n = 5 and 6). Journal of Physical Chemistry A, 2010, 114, 3096-3102.	1.1	12
113	The SâˆΠ€ hemibond and its competition with the SâˆˇS hemibond in the simplest model system: infrared spectroscopy of the [benzene-(H₂S)_n]⁺ (n = 1â€"4) radical cation clusters. Chemical Science, 2019, 10, 7260-7268.	3.7	12
114	Proton Switch Correlated with the Morphological Development of the Hydrogen-Bond Network in H⁺(MeOH)_m(H₂O)₁ (m = 1âˆ'9): A Theoretical and Infrared Spectroscopic Study. Journal of Physical Chemistry A, 2009, 113, 2323-2332.	1.1	11
115	The Large Variation in Acidity of Diethyl Ether Cation Induced by Internal Rotation about a Single Covalent Bond. Journal of Physical Chemistry A, 2015, 119, 4885-4890.	1.1	11
116	Effects of solvent molecules on hemi-bonded (CH3SH)2+: infrared absorption of [(CH3SH)2â€"X]+ with X = H2O, (CH3)2CO, or NH3 and (CH3SH)n+ (n = 3â€"6). Physical Chemistry Chemical Physics, 2019, 21, 16055-16063.	1.3	11
117	Autoionization-detected infrared (ADIR) spectroscopy of molecular cations. Journal of Electron Spectroscopy and Related Phenomena, 2000, 108, 21-30.	0.8	10
118	Infrared Vibrational Autodetachment Spectroscopy of Microsolvated Benzonitrile Radical Anions. Journal of Physical Chemistry A, 2006, 110, 13712-13716.	1.1	10
119	Infrared Photodissociation Spectroscopy of n-Propylbenzeneâˆ'Ar Cluster Cations:â€‰ Charge Delocalization between the Aromatic Ring and the Alkyl Chain. Journal of Physical Chemistry A, 2001, 105, 4882-4886.	1.1	9
120	Stimulated Raman spectroscopy combined with vacuum ultraviolet photoionization: Application to jet-cooled methanol clusters as a new vibrational spectroscopic method for size-selected species in the gas phase. Chemical Physics Letters, 2007, 442, 217-219.	1.2	9
121	Photoelectron spectroscopy of microsolvated benzophenone radical anions to reveal the origin of solvatochromic shifts in alcoholic media. Chemical Physics Letters, 2008, 457, 18-22.	1.2	9
122	Infrared Spectroscopic Investigation of the Acidic CH Bonds in Cationic n-Alkanes: Pentane, Hexane, and Heptane. Journal of Physical Chemistry A, 2016, 120, 6351-6356.	1.1	9
123	Observation of Evidence for the Ï€*âˆΠƒ* Hyperconjugation in the S₁ State of o-, m-, and p-Fluorotoluenes by Double-Resonance Infrared Spectroscopy. Journal of Physical Chemistry A, 2016, 120, 5573-5580.	1.1	9
124	Competition between hydrogen bonds and van der Waals forces in intermolecular structure formation of protonated branched-chain alcohol clusters. Physical Chemistry Chemical Physics, 2018, 20, 25482-25494.	1.3	9
125	Effects of mixing between short-chain and branched-chain alcohols in protonated clusters. Physical Chemistry Chemical Physics, 2020, 22, 13223-13239.	1.3	9
126	Stepwise Solvatochromism of Ketyl Anions in the Gas Phase:Â Photodetachment Excitation Spectroscopy of Benzophenone and Acetophenone Radical Anions Microsolvated with Methanolâ€. Journal of Physical Chemistry A, 2007, 111, 7646-7652.	1.1	8

#	Article	IF	Citations
127	Size-Dependent Metamorphosis of Electron Binding Motif in Cluster Anions of Primary Amide Molecules. Journal of Physical Chemistry A, 2012, 116, 3771-3780.	1.1	8
128	Infrared Spectroscopic Study of the Acidic CH Bonds in Hydrated Clusters of Cationic Pentane. Journal of Physical Chemistry Letters, 2017, 8, 4716-4719.	2.1	8
129	Influence of the microsolvation on hemibonded and protonated hydrogen sulfide: infrared spectroscopy of [(H₂S)_n(X)₁]⁺ and H⁺(H₂S)_n(X)₁ (n = 1 and 2, X = water, methanol,) Tj ETQq1 1 0.784314 rgB	1.3	8
130	Vibrational Coupling in Solvated H₃O⁺: Interplay between Fermi Resonance and Combination Band. Journal of Physical Chemistry Letters, 2020, 11, 10067-10072.	2.1	8
131	Vibrationally autoionizing Rydberg clusters: Spectroscopy and dynamics of pyrazineâ€“Ar and â€“Xe clusters. Journal of Chemical Physics, 2000, 113, 8000-8008.	1.2	7
132	Solvation-Induced Ïƒ-Complex Structure Formation in the Gas Phase: A Revisit to the Infrared Spectroscopy of [C₆H₆â€“(CH₃OH)₂]⁺. Journal of Physical Chemistry A, 2011, 115, 11156-11161.	1.1	7
133	Infrared spectroscopic investigations of cationic ethanol, propanol, and butanol. Chemical Physics Letters, 2015, 640, 215-218.	1.2	7
134	Interpreting the Physical Background of Empirical Solvent Polarity via Photodetachment Spectroscopy of Microsolvated Aromatic Ketyl Anions. Journal of Physical Chemistry A, 2009, 113, 10593-10602.	1.1	6
135	Preference of the monodentate contact in the CH/Ï€ interaction between an alkyl group and a single phenyl ring: Stable structures of benzeneâ€“ethane clusters. Chemical Physics Letters, 2012, 537, 11-15.	1.2	6
136	A combined theoretical and experimental study of phenol-(acetylene)n (n â‰¤ 7) clusters. Journal of Chemical Physics, 2017, 146, 154303.	1.2	6
137	Temperature and Size Dependence of Characteristic Hydrogen-Bonded Network Structures with Ion Core Switching in Protonated (Methanol)_{6â€“10}â€“(Water)₁ Mixed Clusters: A Revisit. Journal of Physical Chemistry A, 2017, 121, 5399-5413.	1.1	6
138	Infrared Spectroscopy and Anharmonic Vibrational Analysis of (H2Oâ€“Krn)+ (n = 1â€“3): Hemibond Formation of the Water Radical Cation. Journal of Physical Chemistry Letters, 2021, 12, 7997-8002.	2.1	6
139	Infrared Spectroscopy of Protonated Trimethylamineâ€“(Benzene)_n (n = 1â€“4) as Model Clusters of the Quaternary Ammoniumâ€“Aromatic Ring Interaction. Journal of Physical Chemistry A, 2014, 118, 7297-7305.	1.1	5
140	Structures of protonated hydrogen sulfide clusters, H+(H2S)n, highlighting the nature of sulfur-centered intermolecular interactions. Physical Chemistry Chemical Physics, 2017, 19, 2036-2043.	1.3	5
141	Infrared spectroscopic evidence for the initial step of dissociation of the stable benzoic acid cyclic dimer with microsolvation by a single water molecule. Chemical Physics Letters, 2017, 684, 368-372.	1.2	5
142	Electronic and Infrared Spectroscopy of Benzene-(H2S)n (n = 1 and 2): The Prototype of the SH-Ïƒ Interaction. Journal of Physical Chemistry A, 2019, 123, 7255-7260.	1.1	5
143	Anharmonic Coupling Revealed by the Vibrational Spectra of Solvated Protonated Methanol: Fermi Resonance, Combination Bands, and Isotope Effect. Journal of Physical Chemistry A, 2021, 125, 1910-1918.	1.1	5
144	An integrated experimental and theoretical reaction path search: analyses of the multistage reaction of an ionized diethylether dimer involving isomerization, proton transfer, and dissociation. Physical Chemistry Chemical Physics, 2018, 20, 14331-14338.	1.3	4

#	Article	IF	Citations
145	Infrared Spectroscopic Evidence for Protonated Water Clusters Forming Nanoscale Cages.. ChemInform, 2004, 35, no.	0.1	3
146	Hyperconjugation in diethyl ether cation versus diethyl sulfide cation. Physical Chemistry Chemical Physics, 2015, 17, 23602-23612.	1.3	3
147	How many methanol molecules effectively solvate an excess proton in the gas phase? Infrared spectroscopy of H⁺(methanol)_nâ€“benzene clusters. Physical Chemistry Chemical Physics, 2021, 24, 163-171.	1.3	3
148	Photodetachment Spectroscopy of Fluorenone Radical Anions Microsolvated with Methanol: Rationalizing the Anomalous Solvatochromic Behavior Due to Hydrogen Bonding. Journal of Physical Chemistry A, 2015, 119, 3721-3730.	1.1	2
149	An infrared spectroscopic study on proton transfer from CH bonds in ionized dimers of cyclic ethers. Journal of Chemical Physics, 2018, 148, 094302.	1.2	2
150	Infrared spectroscopic observation of the McLafferty rearrangement in ionized 2-pentanone. Physical Chemistry Chemical Physics, 2020, 22, 19230-19237.	1.3	2
151	Infrared Spectroscopic Study on Trimethyl Amine Radical Cation: Correlation between Proton-Donating Ability and Structural Deformation. Journal of Physical Chemistry A, 2019, 123, 5945-5950.	1.1	1
152	IR Spectroscopic Investigation on Isomerization of Ionized Ethylene Glycol. Journal of Physical Chemistry A, 2019, 123, 5122-5128.	1.1	1
153	Understanding Fermi resonances behind the complex vibrational spectra of the methyl groups in simple alcohol, thiol, and their ethers. Journal of the Chinese Chemical Society, 0, , .	0.8	1
154	Infrared spectroscopy and theoretical structure analyses of protonated fluoroalcohol clusters: the impact of fluorination on the hydrogen bond networks. Physical Chemistry Chemical Physics, 2022, 24, 12631-12644.	1.3	1
155	Ionization detected vibrational spectroscopy of size-selected hydrogen-bonding clusters of phenol. , 1997, , .		0
156	Effects of Alkyl Groups on Excess-Electron Binding to Small-Sized Secondary Amide Clusters: A Combined Experimental and Computational Study. Journal of Physical Chemistry A, 2017, 121, 4397-4403.	1.1	0
157	Hydrogen Bond Networks Formed by Several Dozens to Hundreds of Molecules in the Gas Phase. , 2019, , 89-111.		0
158	Migrations and Catalytic Action of Water Molecules in the Ionized Formamideâ€“(H2O)2Cluster. Journal of Physical Chemistry A, 2020, 124, 2802-2807.	1.1	0
159	Strong Fermi Resonance Associated with Proton Motions Revealed by Vibrational Spectra of Asymmetric Protonâ€Bound Dimers. Angewandte Chemie, 2021, 133, 1964-1969.	1.6	0
160	Cooperativity of the Activated CH/Ï€ Interaction Probed through CH Stretching Vibrations in Phenolâ€“(Acetylene)n (â^¼16 â‰ n â‰ â^¼30) and (Acetylene)n+ (10 â‰ n â‰ 70) Clusters. Journal of Physical Chemistry A, 2021, 125, 3885-3891.	1.1	0