

Takayuki Ebata

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Infrared Spectroscopic Evidence for Protonated Water Clusters Forming Nanoscale Cages. <i>Science</i> , 2004, 304, 1134-1137.	12.6	493
2	Vibrational spectroscopy of small-sized hydrogen-bonded clusters and their ions. <i>International Reviews in Physical Chemistry</i> , 1998, 17, 331-361.	2.3	361
3	OH stretching vibrations of phenol-(H ₂ O) _n (n=1-3) complexes observed by IR-UV double-resonance spectroscopy. <i>Chemical Physics Letters</i> , 1993, 215, 347-352.	2.6	309
4	Size-selected vibrational spectra of phenol-(H ₂ O) _n (n=1-4) clusters observed by IR-UV double resonance and stimulated Raman-UV double resonance spectroscopies. <i>Journal of Chemical Physics</i> , 1996, 105, 408-419.	3.0	262
5	Vibrational spectroscopy of 2-pyridone and its clusters in supersonic jets: Structures of the clusters as revealed by characteristic shifts of the NH and C=O bands. <i>Journal of Chemical Physics</i> , 1999, 110, 8397-8407.	3.0	150
6	Infrared Spectroscopy of Hydrogen-Bonded Phenol-Amine Clusters in Supersonic Jets. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16053-16057.	2.9	147
7	OH Stretching Vibrations of Phenol-(H ₂ O) ₁ and Phenol-(H ₂ O) ₃ in the S ₁ State. <i>The Journal of Physical Chemistry</i> , 1996, 100, 546-550.	2.9	131
8	Evidence for the Cyclic Form of Phenol Trimer: Vibrational Spectroscopy of the OH Stretching Vibrations of Jet-Cooled Phenol Dimer and Trimer. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5761-5764.	2.9	119
9	UV and IR Spectroscopic Studies of Cold Alkali Metal Ion-Crown Ether Complexes in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2011, 133, 12256-12263.	13.7	90
10	Characterization of the Hydrogen-Bonded Cluster Ions [Phenol-(H ₂ O) _n] ⁺ (n=1-4), (Phenol) ₂ ⁺ , and (Phenol-Methanol) _n ⁺ As Studied by Trapped Ion Infrared Multiphoton Dissociation Spectroscopy of Their OH Stretching Vibrations. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8131-8138.	2.9	88
11	Infrared spectroscopy of hydrated benzene cluster cations, [C ₆ H ₆ -(H ₂ O) _n] ⁺ (n=1-6): Structural changes upon photoionization and proton transfer reactions. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1137-1148.	2.8	79
12	Rotational isomers of m-cresol and internal rotation of the methyl group in S ₀ , S ₁ , and the ion. <i>The Journal of Physical Chemistry</i> , 1987, 91, 5589-5593.	2.9	78
13	Infrared dissociation spectroscopy of the OH stretching vibration of phenol-rare gas van der Waals cluster ions. <i>Chemical Physics Letters</i> , 1994, 225, 104-107.	2.6	77
14	An Infrared Study of Î-Hydrogen Bonds in Micro-solvated Phenol: OH Stretching Vibrations of Phenol-X (X = C ₆ H ₆ , C ₂ H ₄ , and C ₂ H ₂) Clusters in the Neutral and Cationic Ground States. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8554-8560.	2.5	76
15	Stimulated-emission ion-dip spectra of phenol-H ₂ O hydrogen-bonded complex: estimation of intramolecular vibrational redistribution rates of ground-state vibrational levels. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990, 7, 1890.	2.1	75
16	Characterizations of the hydrogen-bond structures of 2-naphthol-(H ₂ O) _n (n=0-3 and 5) clusters by infrared-ultraviolet double-resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1998, 109, 6303-6311.	3.0	75
17	Population labeling spectroscopy for the electronic and the vibrational transitions of 2-pyridone and its hydrogen-bonded clusters. <i>Journal of Chemical Physics</i> , 2000, 113, 573-580.	3.0	74
18	Structures and the vibrational relaxations of size-selected benzonitrile-(H ₂ O) _{n=1-3} and -(CH ₃ OH) _{n=1-3} clusters studied by fluorescence detected Raman and infrared spectroscopies. <i>Journal of Chemical Physics</i> , 1999, 110, 9504-9515.	3.0	73

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19	Conformation of l-Tyrosine Studied by Fluorescence-Detected UV ² UV and IR ² UV Double-Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3209-3215.	2.5	73
20	Infrared spectroscopy of OH stretching vibrations of hydrogen-bonded tropolone-(H ₂ O) _n (n=1-3) and tropolone-(CH ₃ OH) _n (n=1 and 2) clusters. <i>Journal of Chemical Physics</i> , 1996, 105, 2618-2627.	3.0	72
21	Autoionization-detected infrared spectroscopy of intramolecular hydrogen bonds in aromatic cations. I. Principle and application to fluorophenol and methoxyphenol. <i>Journal of Chemical Physics</i> , 1999, 110, 4238-4247.	3.0	69
22	Discrimination of Rotamers of Aryl Alcohol Homologues by Infrared-Ultraviolet Double-Resonance Spectroscopy in a Supersonic Jet. <i>Journal of the American Chemical Society</i> , 1999, 121, 5705-5711.	13.7	68
23	Infrared spectroscopy of CH stretching vibrations of jet-cooled alkylbenzene cations by using the "messenger" technique. <i>Journal of Chemical Physics</i> , 2000, 112, 6275-6284.	3.0	68
24	A Molecular Cluster Study on Activated CH/π Interactions: Infrared Spectroscopy of Aromatic Molecule-Acetylene Clusters. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2652-2658.	2.5	67
25	Ion Selectivity of Crown Ethers Investigated by UV and IR Spectroscopy in a Cold Ion Trap. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4057-4068.	2.5	65
26	Structure and Photoinduced Excited State Keto-Enol Tautomerization of 7-Hydroxyquinoline-(CH ₃ OH) _n Clusters. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5591-5599.	2.5	64
27	Electronic spectra of jet-cooled azulene. <i>Chemical Physics</i> , 1983, 77, 191-200.	1.9	63
28	Structures of size-selected hydrogen-bonded phenol-(H ₂ O) _n clusters in S ₀ , S ₁ and ion. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 159, 111-124.	1.8	63
29	Picosecond IR ² UV Pump-Probe Spectroscopy. IVR of OH Stretching Vibration of Phenol and Phenol Dimer. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8623-8628.	2.5	63
30	Infrared spectroscopy of the benzene-H ₂ O cluster cation: experimental study on the drastic structural change upon photoionization. <i>Chemical Physics Letters</i> , 2001, 349, 431-436.	2.6	63
31	Infrared spectroscopy of the phenol-N ₂ cluster in S ₀ and D ₀ : Direct evidence of the in-plane structure of the cluster. <i>Journal of Chemical Physics</i> , 1999, 110, 11125-11128.	3.0	61
32	Laser Spectroscopy of Large Polyatomic Molecules in Supersonic Jets. <i>Annual Review of Physical Chemistry</i> , 1988, 39, 123-147.	10.8	60
33	Autoionization-Detected Infrared Spectroscopy of Molecular Ions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5963-5965.	2.5	59
34	Infrared Spectroscopy of the OH Stretching Vibrations of Jet-Cooled Salicylic Acid and Its Dimer in S ₀ and S ₁ . <i>Journal of Physical Chemistry A</i> , 2001, 105, 10673-10680.	2.5	59
35	Highly excited states of nitric oxide studied by two-color double resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1983, 78, 1132-1139.	3.0	57
36	Vibrationally state-selected reactions of ammonia ions. I. NH ₃ ^(v) +D ₂ . <i>Journal of Chemical Physics</i> , 1986, 84, 5527-5535.	3.0	57

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37	A New Electronic State of Aniline Observed in the Transient IR Absorption Spectrum from S1 in a Supersonic Jet. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11070-11074.	2.5	57
38	Hydration profiles of aromatic amino acids: conformations and vibrations of phenylalanine-(H ₂ O) _n clusters. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4783-4791.	2.8	57
39	Rotational isomers and internal rotation of the methyl group in S ₀ , S ₁ and ion of o-cresol. <i>The Journal of Physical Chemistry</i> , 1989, 93, 3519-3522.	2.9	56
40	Infrared Spectroscopy of Size-Selected Benzene-Water Cluster Cations [C ₆ H ₆ (H ₂ O) _n] ⁺ (n = 1-23): Hydrogen Bond Network Evolution and Microscopic Hydrophobicity. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10656-10660.	2.5	55
41	Structures of hydrogen-bonded clusters of benzyl alcohol with water investigated by infrared-ultraviolet double resonance spectroscopy in supersonic jet. <i>Journal of Chemical Physics</i> , 1999, 111, 8438-8447.	3.0	53
42	Structure of hydrated clusters of dibenzo-18-crown-6-ether in a supersonic jet: encapsulation of water molecules in the crown cavity. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6238.	2.8	53
43	Two-color multiphoton ionization and fluorescence dip spectra of NO in a supersonic free jet. Highly excited ns, np, nf Rydberg states. <i>Chemical Physics</i> , 1985, 97, 153-163.	1.9	52
44	Fluorescence spectra of CH ₃ O and C ₂ H ₅ O generated by the ArF laser photolysis of alkyl nitrites. <i>Chemical Physics</i> , 1982, 69, 27-33.	1.9	51
45	IR-UV Double-Resonance Spectroscopic Study of 2-Hydroxypyridine and Its Hydrogen-Bonded Clusters in Supersonic Jets. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3475-3480.	2.5	51
46	Vibrational spectroscopic evidence of unconventional hydrogen bonds. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 289-312.	1.5	51
47	Vibrational Relaxation of OH and OD Stretching Vibrations of Phenol and Its Clusters Studied by IR-UV Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7974-7979.	2.5	50
48	Picosecond IR-UV pump-probe spectroscopic study on the vibrational energy flow in isolated molecules and clusters. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1170-1185.	2.8	50
49	Laser spectroscopic study on the conformations and the hydrated structures of benzo-18-crown-6-ether and dibenzo-18-crown-6-ether in supersonic jets. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4452.	2.8	49
50	Rate constant measurements for the reactions of oxomethyl radical with nitric oxide and molecular oxygen in the gas phase. <i>The Journal of Physical Chemistry</i> , 1977, 81, 2292-2294.	2.9	48
51	NH Stretching Vibrations of Jet-Cooled Aniline and Its Derivatives in the Neutral and Cationic Ground States. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3678-3686.	2.5	48
52	Picosecond IR-UV pump-probe spectroscopic study of the dynamics of the vibrational relaxation of jet-cooled phenol. I. Intramolecular vibrational energy redistribution of the OH and CH stretching vibrations of bare phenol. <i>Journal of Chemical Physics</i> , 2004, 120, 7400-7409.	3.0	48
53	Studies on s-Cis/s-Trans Preference of Acyclic α,β -Unsaturated Esters. Reactions, Supersonic Jet Spectroscopy, NOEs, and X-ray Analysis. <i>Journal of Organic Chemistry</i> , 1994, 59, 4068-4075.	3.2	47
54	Direct Observation of Weak Hydrogen Bonds in Microsolvated Phenol: Infrared Spectroscopy of OH Stretching Vibrations of Phenol-CO and -CO ₂ in S ₀ and D ₀ . <i>Journal of Physical Chemistry A</i> , 2002, 106, 10124-10129.	2.5	47

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55	Degenerate four-wave mixing and photofragment yield spectroscopic study of jet-cooled SO ₂ in the C ₁ f state: Internal conversion followed by dissociation in the X ₁ f state. <i>Journal of Chemical Physics</i> , 1997, 107, 8752-8758.	3.0	46
56	Microhydration Effects on the Encapsulation of Potassium Ion by Dibenzo-18-Crown-6. <i>Journal of the American Chemical Society</i> , 2014, 136, 1815-1824.	13.7	46
57	Evidence of a dihydrogen bond in gas phase: Phenol-borane-dimethylamine complex. <i>Journal of Chemical Physics</i> , 2000, 113, 9885-9888.	3.0	45
58	Anomalous conformer dependent S ₁ lifetime of l-phenylalanine. <i>Chemical Physics Letters</i> , 2006, 421, 227-231.	2.6	45
59	Two-color excitation of NO in a supersonic free jet. Autoionization of high rydberg states. <i>Chemical Physics</i> , 1984, 89, 103-109.	1.9	43
60	Vibrationally state-selected reactions of ammonia ions. III. NH ₃ ⁺ (v)+ND ₃ and ND ₃ ⁺ (v)+NH ₃ . <i>Journal of Chemical Physics</i> , 1987, 87, 3453-3460.	3.0	43
61	Picosecond IR-UV pump-probe spectroscopic study of the dynamics of the vibrational relaxation of jet-cooled phenol. II. Intracuster vibrational energy redistribution of the OH stretching vibration of hydrogen-bonded clusters. <i>Journal of Chemical Physics</i> , 2004, 120, 7410-7417.	3.0	43
62	Development of Ultraviolet-Ultraviolet Hole-Burning Spectroscopy for Cold Gas-Phase Ions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1236-1240.	4.6	43
63	Rotational energy transfer in NO (A ₂ ⁺ , v = 0 and 1) studied by two-color double-resonance spectroscopy. <i>Chemical Physics</i> , 1984, 84, 151-157.	1.9	41
64	Infrared Spectroscopy of Intramolecular Hydrogen-Bonded OH Stretching Vibrations in Jet-Cooled Methyl Salicylate and Its Clusters. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9779-9784.	2.5	40
65	Pulsed-field-ionization spectroscopy for the study of molecular cations. <i>Chemical Physics Letters</i> , 1992, 189, 592-597.	2.6	39
66	Hole-Burning and Stimulated Raman-UV Double Resonance Spectroscopies of Jet-Cooled Toluene Dimer. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10531-10535.	2.9	39
67	Real-time detection of doorway states in the intramolecular vibrational energy redistribution of the OH/OD stretch vibration of phenol. <i>Journal of Chemical Physics</i> , 2004, 121, 11530-11534.	3.0	38
68	Structure of the Calix[4]arene-(H ₂ O) ₂ Cluster: The World's Smallest Cup of Water. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2967-2972.	2.5	38
69	Two-color multiphoton ionization and fluorescence dip spectra of diazabicyclo[2.2.2]octane in a supersonic free jet. Rydberg states (n = 5-39) and autoionization. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4265-4271.	2.9	37
70	Water-mediated conformer optimization in benzo-18-crown-6-ether/water system. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9132.	2.8	36
71	Experimental and theoretical study on the excited-state dynamics of ortho-, meta-, and para-methoxy methylcinnamate. <i>Journal of Chemical Physics</i> , 2014, 141, 244313.	3.0	36
72	Electronic spectroscopy of benzene-water cluster cations, [C ₆ H ₆ (H ₂ O) _n] ⁺ (n=1-4): spectroscopic evidence for phenyl radical formation through size-dependent intracuster proton transfer reactions. <i>Chemical Physics Letters</i> , 2004, 399, 412-416.	2.6	35

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73	Ion core structure in $(CS_2)_n^+$ and $(CS_2)_n^{\sim+}$ ($n=3\sim 10$) studied by infrared photodissociation spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 128, 164319.	3.0	35
74	Vibrationally state-selected reactions of ammonia ions. II. $NH_3^+(v)+CH_4$. <i>Journal of Chemical Physics</i> , 1987, 87, 3447-3452.	3.0	34
75	C-H stretching vibrations of benzene and toluene in their S1 states observed by double resonance vibrational spectroscopy in supersonic jets. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1537-1541.	2.8	34
76	Gas phase dihydrogen bonding: clusters of borane-amines with phenol and aniline. <i>Chemical Physics</i> , 2002, 283, 193-207.	1.9	34
77	Two-color multiphoton ionization of diazabicyclooctane in a supersonic free jet. <i>Chemical Physics Letters</i> , 1983, 101, 578-582.	2.6	33
78	Gas phase dihydrogen bonded phenol-borane-trimethylamine complex. <i>Journal of Chemical Physics</i> , 2001, 114, 8877-8879.	3.0	33
79	Relaxation dynamics of NH stretching vibrations of 2-aminopyridine and its dimer in a supersonic beam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12690-12695.	7.1	33
80	Study on the Structure and Vibrational Dynamics of Functional Molecules and Molecular Clusters by Double Resonance Vibrational Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 127-151.	3.2	33
81	Multistep Intersystem Crossing Pathways in Cinnamate-Based UV-B Sunscreens. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4001-4007.	4.6	33
82	Rate constants for the reactions of benzyl and methyl-substituted benzyl radicals with O ₂ and NO. <i>Chemical Physics Letters</i> , 1981, 77, 480-483.	2.6	32
83	Ultraviolet Photodissociation Spectroscopy of the Cold $K^+ \cdot \text{Calix[4]arene}$ Complex in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8512-8518.	2.5	32
84	Autoionization-detected infrared spectroscopy of intramolecular hydrogen bonds in aromatic cations. II. Unconventional intramolecular hydrogen bonds. <i>Journal of Chemical Physics</i> , 2000, 112, 137-148.	3.0	31
85	Dihydrogen bonded phenol-borane-dimethylamine complex: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2002, 116, 6056-6063.	3.0	31
86	Intramolecular electronic energy transfer of bichromophoric molecules in a supersonic free jet. <i>Chemical Physics Letters</i> , 1984, 110, 597-601.	2.6	30
87	Rotational structure and dissociation of the Rydberg states of CO investigated by ion-dip spectroscopy. <i>Journal of Chemical Physics</i> , 1995, 103, 2420-2435.	3.0	30
88	A New Type of Intramolecular Hydrogen Bonding: Hydroxyl-Methyl Interactions in the <i>ortho</i> -Cresol Cation. <i>Journal of the American Chemical Society</i> , 1998, 120, 13256-13257.	13.7	30
89	Direct Spectroscopic Evidence of Photoisomerization in <i>para</i> -Methoxy Methylcinnamate Revealed by Low-Temperature Matrix-Isolation FTIR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1134-1139.	4.6	30
90	Picosecond IR-UV pump-probe spectroscopic study on the intramolecular vibrational energy redistribution of NH ₂ and CH stretching vibrations of jet-cooled aniline. <i>Journal of Chemical Physics</i> , 2005, 123, 124316.	3.0	29

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91	Double resonance effect on multiphoton ionization process of nitric oxide. <i>Chemical Physics Letters</i> , 1982, 86, 445-448.	2.6	28
92	Vibrational dependence of the $\text{NH}_3^+ (\nu_2) + \text{NO}$ and $\text{NO} + (\nu) + \text{NH}_3$ charge transfer cross sections. <i>Chemical Physics Letters</i> , 1986, 130, 467-472.	2.6	28
93	Production of rotationally state selected ions by resonant enhanced multiphoton ionization of CO in a supersonic free jet. <i>Chemical Physics Letters</i> , 1989, 161, 93-97.	2.6	28
94	Laser Spectroscopic Study of Cold Host-Guest Complexes of Crown Ethers in the Gas Phase. <i>ChemPhysChem</i> , 2013, 14, 649-660.	2.1	28
95	Nascent rotational distribution and the relaxation of the N^+_{2} ion produced by double resonant multiphoton ionization. <i>Journal of Chemical Physics</i> , 1988, 88, 5307-5313.	3.0	27
96	Rotational analysis of $\nu=1$ level of $n=8-10$ Rydberg states of CO by triple resonant multiphoton spectroscopy. <i>Journal of Chemical Physics</i> , 1992, 97, 3920-3930.	3.0	27
97	Photofragment-Detected IR Spectroscopy (PFDIRS) for the OH Stretching Vibration of the Hydrogen-Bonded Clusters in the S ₁ State Application to 2-Naphthol-B (B = H ₂ O and CH ₃ OH) Clusters. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5727-5730.	2.5	27
98	IR-VUV spectroscopy of pyridine dimers, trimers and pyridine-ammonia complexes in a supersonic jet. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21520-21534.	2.8	26
99	Laser Spectroscopic Investigation of Salicylic Acids Hydrogen Bonded with Water in Supersonic Jets: A Microsolvation Effects for Excited State Proton Dislocation. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2498-2504.	2.5	25
100	New insights into metal ion-crown ether complexes revealed by SEIRA spectroscopy. <i>New Journal of Chemistry</i> , 2015, 39, 8673-8680.	2.8	25
101	Conformation of Alkali Metal Ion-Benzo-12-Crown-4 Complexes Investigated by UV Photodissociation and UV-Hole-Burning Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6394-6401.	2.5	25
102	Infrared spectroscopy of precursor clusters for nucleophilic substitution reactions: fluorobenzene-(CH ₃ OH) _n (n = 1 and 2). <i>Chemical Physics Letters</i> , 1996, 256, 1-7.	2.6	24
103	Infrared Spectroscopy of (Phenol) _n (n = 2-4) and (Phenol-Benzene) _n Cluster Ions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1798-1803.	2.5	24
104	Nonradiative decay dynamics of methyl-4-hydroxycinnamate and its hydrated complex revealed by picosecond pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8999.	2.8	24
105	Two-color double resonance in the four-photon ionization of nitric oxide. <i>Chemical Physics Letters</i> , 1982, 89, 45-47.	2.6	23
106	Rotational analysis of $n=4-7$ Rydberg states of CO observed by ion-dip spectroscopy. <i>Journal of Chemical Physics</i> , 1993, 99, 9350-9365.	3.0	23
107	Autoionization-detected infrared spectroscopy of jet-cooled aromatic cations in the gas phase: CH stretching vibrations of isolated p-ethylphenol cations. <i>Chemical Physics Letters</i> , 1999, 303, 289-294.	2.6	23
108	Solvent Effects on the Encapsulation of Divalent Ions by Benzo-18-Crown-6 and Benzo-15-Crown-5. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8097-8105.	2.5	23

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109	Electronic spectra of jet-cooled cations of hydrogen-bonded complexes of phenol. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 1413-1419.	0.1	22
110	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. <i>Chemical Physics Letters</i> , 2003, 376, 788-793.	2.6	22
111	Structure of host-guest complexes between dibenzo-18-crown-6 and water, ammonia, methanol, and acetylene: Evidence of molecular recognition on the complexation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6827.	2.8	22
112	Anomalous Cage Effect of the Excited State Dynamics of Catechol in the 18-Crown-6-Guest Complex. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2557-2565.	2.6	21
113	Autoionization-Detected Infrared Spectroscopy of Jet-Cooled Naphthol Cations. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7227-7232.	2.5	20
114	Dehydrogenation Reaction from a Dihydrogen Bonded Precursor Complex in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10753-10758.	2.5	20
115	Laser spectroscopic study on (dibenzo-24-crown-8-ether)-water and -methanol complexes in supersonic jets. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3559.	2.8	20
116	Laser Spectroscopic and Theoretical Studies of Encapsulation Complexes of Calix[4]arene. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10846-10853.	2.5	20
117	Different photoisomerization routes found in the structural isomers of hydroxy methylcinnamate. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17583-17598.	2.8	20
118	Electronic and Vibrational Spectroscopy of Dihydrogen Bonded 2-Pyridone-Borane-Trimethylamine Complex in Supersonic Jets. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8642-8645.	2.5	19
119	OH stretching vibrations and hydrogen-bonded structures of 7-hydroxyquinoline-(H ₂ O) ₁₋₃ investigated by IR-UV double-resonance spectroscopy. <i>Chemical Physics Letters</i> , 2001, 338, 52-60.	2.6	19
120	Structures of (3 <i>n</i> -Crown- <i>n</i>)-Phenol (<i>n</i> = 4, 5, 6, 8) Host-Guest Complexes: Formation of a Uniquely Stable Complex for <i>n</i> = 6 via Collective Intermolecular Interaction. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1414-1420.	4.6	19
121	Vibrational spectra and relaxation of benzonitrile and its clusters using time-resolved stimulated Raman-UV double resonance spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 295-304.	2.5	18
122	The direct observation of the doorway ¹ state of methylcinnamate and hydrogen-bonding effects on the photochemistry of cinnamate-based sunscreens. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19755-19763.	2.8	18
123	Conformation of K ⁺ (Crown Ether) Complexes Revealed by Ion Mobility-Mass Spectrometry and Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9980-9990.	2.5	17
124	Mode-dependent anharmonic coupling between OH stretching and intermolecular vibrations of the hydrogen-bonded clusters of phenol. <i>Chemical Physics</i> , 1998, 231, 199-204.	1.9	16
125	Predissociation of the Rydberg states of CO: State specific predissociation to the triplet channel. <i>Journal of Chemical Physics</i> , 1998, 108, 1765-1768.	3.0	16
126	Electronic spectra of jet-cooled calix[4]arene and its van der Waals clusters: Encapsulation of a neutral atom in a molecular bowl. <i>Journal of Chemical Physics</i> , 2007, 126, 141101.	3.0	16

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127	Structures and Encapsulation Motifs of Functional Molecules Probed by Laser Spectroscopic and Theoretical Methods. <i>Sensors</i> , 2010, 10, 3519-3548.	3.8	16
128	Vibrational energy relaxation of benzene dimer and trimer in the CH stretching region studied by picosecond time-resolved IR-UV pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 044304.	3.0	16
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