Takayuki Ebata

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189 papers	6,776 citations	47 h-index	71 g-index
194 ext. papers	7,083 ext. citations	3.9 avg, IF	5.57 L-index

#	Paper	IF	Citations
189	Infrared spectroscopic evidence for protonated water clusters forming nanoscale cages. *Science*, **2004**, 304, 1134-7	33.3	448
188	Vibrational spectroscopy of small-sized hydrogen-bonded clusters and their ions. *International Reviews in Physical Chemistry*, **1998**, 17, 331-361	7	344
187	OH stretching vibrations of phenol(H2O)n (n=1–3) complexes observed by IR-UV double-resonance spectroscopy. *Chemical Physics Letters*, **1993**, 215, 347-352	2.5	283
186	Size-selected vibrational spectra of phenol-(H2O)n (n=1–4) clusters observed by IR–UV double resonance and stimulated Raman-UV double resonance spectroscopies. *Journal of Chemical Physics*, **1996**, 105, 408-419	3.9	240
185	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. *Journal of Chemical Physics*, **1999**, 110, 8397-8407	3.9	142
184	Infrared Spectroscopy of Hydrogen-Bonded Phenol–Amine Clusters in Supersonic Jets. *The Journal of Physical Chemistry*, **1996**, 100, 16053-16057		138
183	OH Stretching Vibrations of Phenol(H2O)1 and Phenol(H2O)3 in the S1 State. *The Journal of Physical Chemistry*, **1996**, 100, 546-550		125
182	Evidence for the Cyclic Form of Phenol Trimer: Vibrational Spectroscopy of the OH Stretching Vibrations of Jet-Cooled Phenol Dimer and Trimer. *The Journal of Physical Chemistry*, **1995**, 99, 5761-5764		108
181	Characterization of the Hydrogen-Bonded Cluster Ions [Phenol(H2O)n]+ (n = 1–4), (Phenol)2+, and (Phenol–Methanol)+ As Studied by Trapped Ion Infrared Multiphoton Dissociation Spectroscopy of Their OH Stretching Vibrations. *The Journal of Physical Chemistry*, **1996**, 100, 8131-8138		83
180	UV and IR spectroscopic studies of cold alkali metal ion-crown ether complexes in the gas phase. *Journal of the American Chemical Society*, **2011**, 133, 12256-63	16.4	80
179	An Infrared Study of Hydrogen Bonds in Micro-solvated Phenol: OH Stretching Vibrations of Phenol–X (X = C6H6, C2H4, and C2H2) Clusters in the Neutral and Cationic Ground States. *Journal of Physical Chemistry A*, **2002**, 106, 8554-8560	2.8	75
178	Stimulated-emission ion-dip spectra of phenol–H_2O hydrogen-bonded complex: estimation of intramolecular vibrational redistribution rates of ground-state vibrational levels. *Journal of the Optical Society of America B: Optical Physics*, **1990**, 7, 1890	1.7	74
177	Infrared spectroscopy of hydrated benzene cluster cations, [C6H6-(H2O)n]+(n = 1–3): Structural changes upon photoionization and proton transfer reactions. *Physical Chemistry Chemical Physics*, **2003**, 5, 1137-1148	3.6	72
176	Infrared dissociation spectroscopy of the OH stretching vibration of phenol–rare gas van der Waals cluster ions. *Chemical Physics Letters*, **1994**, 225, 104-107	2.5	72
175	Population labeling spectroscopy for the electronic and the vibrational transitions of 2-pyridone and its hydrogen-bonded clusters. *Journal of Chemical Physics*, **2000**, 113, 573-580	3.9	71
174	Characterizations of the hydrogen-bond structures of 2-naphthol-(H2O)n (n=0–3 and 5) clusters by infrared-ultraviolet double-resonance spectroscopy. *Journal of Chemical Physics*, **1998**, 109, 6303-6311	3.9	71
173	Structures and the vibrational relaxations of size-selected benzonitrile(H2O)n=1–3 and (CH3OH)n=1–3 clusters studied by fluorescence detected Raman and infrared spectroscopies. *Journal of Chemical Physics*, **1999**, 110, 9504-9515	3.9	71

172	Rotational isomers of m-cresol and internal rotation of the methyl group in S0, S1, and the ion. *The Journal of Physical Chemistry*, **1987**, 91, 5589-5593		67
171	Conformation of L-tyrosine studied by fluorescence-detected UV-UV and IR-UV double-resonance spectroscopy. *Journal of Physical Chemistry A*, **2007**, 111, 3209-15	2.8	66
170	A Molecular Cluster Study on Activated CH/π Interactions: Infrared Spectroscopy of Aromatic Molecule−Acetylene Clusters. *Journal of Physical Chemistry A*, **2004**, 108, 2652-2658	2.8	65
169	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	3.9	65
168	Infrared spectroscopy of OH stretching vibrations of hydrogen-bonded tropolone-(H2O)n (n=1−3) and tropolone-(CH3OH)n (n=1 and 2) clusters. *Journal of Chemical Physics*, **1996**, 105, 2618-2627	3.9	65
167	Structure and Photoinduced Excited State Keto−Enol Tautomerization of 7-Hydroxyquinoline-(CH3OH)n Clusters. *Journal of Physical Chemistry A*, **2002**, 106, 5591-5599	2.8	61
166	Infrared spectroscopy of CH stretching vibrations of jet-cooled alkylbenzene cations by using the messenger technique. *Journal of Chemical Physics*, **2000**, 112, 6275-6284	3.9	61
165	Electronic spectra of jet-cooled azulene. *Chemical Physics*, **1983**, 77, 191-200	2.3	61
164	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		60
163	Ion selectivity of crown ethers investigated by UV and IR spectroscopy in a cold ion trap. *Journal of Physical Chemistry A*, **2012**, 116, 4057-68	2.8	59
162	Discrimination of Rotamers of Aryl Alcohol Homologues by Infrared−Ultraviolet Double-Resonance Spectroscopy in a Supersonic Jet. *Journal of the American Chemical Society*, **1999**, 121, 5705-5711	16.4	58
161	Picosecond IR−UV Pump−Probe Spectroscopy. IVR of OH Stretching Vibration of Phenol and Phenol Dimer. *Journal of Physical Chemistry A*, **2001**, 105, 8623-8628	2.8	56
160	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	3.9	56
159	Laser Spectroscopy of Large Polyatomic Molecules in Supersonic Jets. *Annual Review of Physical Chemistry*, **1988**, 39, 123-147	15.7	56
158	Autoionization-Detected Infrared Spectroscopy of Molecular Ions. *Journal of Physical Chemistry A*, **1997**, 101, 5963-5965	2.8	55
157	Hydration profiles of aromatic amino acids: conformations and vibrations of L-phenylalanine-(H2O)n clusters. *Physical Chemistry Chemical Physics*, **2006**, 8, 4783-91	3.6	55
156	Infrared spectroscopy of the benzene−H2O cluster cation: experimental study on the drastic structural change upon photoionization. *Chemical Physics Letters*, **2001**, 349, 431-436	2.5	55
155	Highly excited states of nitric oxide studied by two-color double resonance spectroscopy. *Journal of Chemical Physics*, **1983**, 78, 1132-1139	3.9	54

154	Vibrationally state-selected reactions of ammonia ions. I. NH+3(v)+D2. *Journal of Chemical Physics*, **1986**, 84, 5527-5535	3.9	54
153	A New Electronic State of Aniline Observed in the Transient IR Absorption Spectrum from S1in a Supersonic Jet. *Journal of Physical Chemistry A*, **2002**, 106, 11070-11074	2.8	53
152	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	2.8	53
151	Structure of hydrated clusters of dibenzo-18-crown-6-ether in a supersonic jet--encapsulation of water molecules in the crown cavity. *Physical Chemistry Chemical Physics*, **2008**, 10, 6238-44	3.6	51
150	Infrared Spectroscopy of Size-Selected Benzene−Water Cluster Cations [C6H6−(H2O)n]+ (n = 1−23): Hydrogen Bond Network Evolution and Microscopic Hydrophobicity. *Journal of Physical Chemistry A* , **2004**, 108, 10656-10660	2.8	50
149	Rotational isomers and internal rotation of the methyl group in S0, S1 and ion of o-cresol. *The Journal of Physical Chemistry*, **1989**, 93, 3519-3522		50
148	Two-color multiphoton ionization and fluorescence dip spectra of NO in a supersonic free jet. Highly excited ns, np, nf Rydberg states. *Chemical Physics*, **1985**, 97, 153-163	2.3	50
147	Picosecond IR-UV pump-probe spectroscopic study on the vibrational energy flow in isolated molecules and clusters. *Physical Chemistry Chemical Physics*, **2007**, 9, 1170-85	3.6	48
146	IR−UV Double-Resonance Spectroscopic Study of 2-Hydroxypyridine and Its Hydrogen-Bonded Clusters in Supersonic Jets. *Journal of Physical Chemistry A*, **2001**, 105, 3475-3480	2.8	48
145	□□X fluorescence spectra of CH3O and C2H5O generated by the Arf laser photolysis of alkyl nitrites. *Chemical Physics*, **1982**, 69, 27-33	2.3	48
144	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. *Physical Chemistry Chemical Physics*, **2007**, 9, 4452-9	3.6	47
143	Vibrational spectroscopic evidence of unconventional hydrogen bonds. *International Journal of Mass Spectrometry*, **2002**, 220, 289-312	1.9	47
142	Structures of hydrogen-bonded clusters of benzyl alcohol with water investigated by infrared-ultraviolet double resonance spectroscopy in supersonic jet. *Journal of Chemical Physics*, **1999**, 111, 8438-8447	3.9	47
141	Rate constant measurements for the reactions of oxomethyl radical with nitric oxide and molecular oxygen in the gas phase. *The Journal of Physical Chemistry*, **1977**, 81, 2292-2294		46
140	Direct Observation of Weak Hydrogen Bonds in Microsolvated Phenol: Infrared Spectroscopy of OH Stretching Vibrations of Phenol−□O and −□O2 in S0 and D0. *Journal of Physical Chemistry A*, **2002**, 106, 10124-10129	2.8	45
139	Evidence of a dihydrogen bond in gas phase: Phenol−borane-dimethylamine complex. *Journal of Chemical Physics*, **2000**, 113, 9885-9888	3.9	44
138	Vibrational Relaxation of OH and OD Stretching Vibrations of Phenol and Its Clusters Studied by IR−UV Pump−Probe Spectroscopy. *Journal of Physical Chemistry A*, **2000**, 104, 7974-7979	2.8	44
137	Anomalous conformer dependent S1 lifetime of l-phenylalanine. *Chemical Physics Letters*, **2006**, 421, 227-231	2.5	42

136	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. *Journal of Chemical Physics*, **2004**, 120, 7400-9	3.9	42
135	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	2.8	42
134	Studies on s-Cis/s-Trans Preference of Acyclic .alpha.,.beta.-Unsaturated Esters. Reactions, Supersonic Jet Spectroscopy, NOEs, and X-ray Analysis. *Journal of Organic Chemistry*, **1994**, 59, 4068-4075	4.2	42
133	Degenerate four-wave mixing and photofragment yield spectroscopic study of jet-cooled SO2 in the C 1B2 state: Internal conversion followed by dissociation in the X state. *Journal of Chemical Physics*, **1997**, 107, 8752-8758	3.9	41
132	Two-color excitation of NO in a supersonic free jet. Autoionization of high rydberg states. *Chemical Physics*, **1984**, 89, 103-109	2.3	40
131	Development of Ultraviolet-Ultraviolet Hole-Burning Spectroscopy for Cold Gas-Phase Ions. *Journal of Physical Chemistry Letters*, **2014**, 5, 1236-40	6.4	39
130	Rotational energy transfer in NO (A2Σ, v = 0 and 1) studied by two-color double-resonance spectroscopy. *Chemical Physics*, **1984**, 84, 151-157	2.3	38
129	Microhydration effects on the encapsulation of potassium ion by dibenzo-18-crown-6. *Journal of the American Chemical Society*, **2014**, 136, 1815-24	16.4	37
128	Picosecond IR-UV pump-probe spectroscopic study of the dynamics of the vibrational relaxation of jet-cooled phenol. II. Intracluster vibrational energy redistribution of the OH stretching vibration of hydrogen-bonded clusters. *Journal of Chemical Physics*, **2004**, 120, 7410-7	3.9	37
127	Vibrationally state-selected reactions of ammonia ions. III. NH+3(v)+ND3 and ND+3(v)+NH3. *Journal of Chemical Physics*, **1987**, 87, 3453-3460	3.9	37
126	Pulsed-field-ionization spectroscopy for the study of molecular cations. *Chemical Physics Letters*, **1992**, 189, 592-597	2.5	36
125	Structure of the calix[4]arene-(H2O) cluster: the world's smallest cup of water. *Journal of Physical Chemistry A*, **2010**, 114, 2967-72	2.8	35
124	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. *The Journal of Physical Chemistry*, **1984**, 88, 4265-4271		35
123	Real-time detection of doorway states in the intramolecular vibrational energy redistribution of the OH/OD stretch vibration of phenol. *Journal of Chemical Physics*, **2004**, 121, 11530-4	3.9	34
122	Water-mediated conformer optimization in benzo-18-crown-6-ether/water system. *Physical Chemistry Chemical Physics*, **2009**, 11, 9132-40	3.6	33
121	Hole-Burning and Stimulated Raman−UV Double Resonance Spectroscopies of Jet-Cooled Toluene Dimer. *The Journal of Physical Chemistry*, **1996**, 100, 10531-10535		33
120	Ion core structure in (C(2)n+ and (CS2)n- (n=3-10) studied by infrared photodissociation spectroscopy. *Journal of Chemical Physics*, **2008**, 128, 164319	3.9	33
119	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	2.8	33

118	Vibrationally state-selected reactions of ammonia ions. II. NH+3(v)+CH4. *Journal of Chemical Physics*, **1987**, 87, 3447-3452	3.9	33
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116	Electronic spectroscopy of benzene–water cluster cations, [C6H6–(H2O)n]+ (n=1–4): spectroscopic evidence for phenyl radical formation through size-dependent intracluster proton transfer reactions. *Chemical Physics Letters*, **2004**, 399, 412-416	2.5	32
115	Gas phase dihydrogen bonding: clusters of borane-amines with phenol and aniline. *Chemical Physics*, **2002**, 283, 193-207	2.3	32
114	Gas phase dihydrogen bonded phenol–Borane–Trimethylamine complex. *Journal of Chemical Physics*, **2001**, 114, 8877-8879	3.9	32
113	Rate constants for the reactions of benzyl and methyl-substituted benzyl radicals with O2 and NO. *Chemical Physics Letters*, **1981**, 77, 480-483	2.5	31
112	Relaxation dynamics of NH stretching vibrations of 2-aminopyridine and its dimer in a supersonic beam. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12690-5	11.5	30
111	Study on the Structure and Vibrational Dynamics of Functional Molecules and Molecular Clusters by Double Resonance Vibrational Spectroscopy. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 127-151	5.1	29
110	Dihydrogen bonded phenol–Borane-dimethylamine complex: An experimental and theoretical study. *Journal of Chemical Physics*, **2002**, 116, 6056-6063	3.9	29
109	Rotational structure and dissociation of the Rydberg states of CO investigated by ion-dip spectroscopy. *Journal of Chemical Physics*, **1995**, 103, 2420-2435	3.9	29
108	Two-color multiphoton ionization of diazabicyclooctane in a supersonic free jet. *Chemical Physics Letters*, **1983**, 101, 578-582	2.5	29
107	Intramolecular electronic energy transfer of bichromophoric molecules in a supersonic free jet. *Chemical Physics Letters*, **1984**, 110, 597-601	2.5	28
106	Multistep Intersystem Crossing Pathways in Cinnamate-Based UV-B Sunscreens. *Journal of Physical Chemistry Letters*, **2016**, 7, 4001-4007	6.4	27
105	Picosecond IR-UV pump-probe spectroscopic study on the intramolecular vibrational energy redistribution of NH2 and CH stretching vibrations of jet-cooled aniline. *Journal of Chemical Physics*, **2005**, 123, 124316	3.9	27
104	CH stretching vibrations of benzene and toluene in their S1 states observed by double resonance vibrational spectroscopy in supersonic jets. *Physical Chemistry Chemical Physics*, **2002**, 4, 1537-1541	3.6	27
103	Autoionization-detected infrared spectroscopy of intramolecular hydrogen bonds in aromatic cations. II. Unconventional intramolecular hydrogen bonds. *Journal of Chemical Physics*, **2000**, 112, 137-148	3.9	27
102	A New Type of Intramolecular Hydrogen Bonding: Hydroxyl–Methyl Interactions in the o-Cresol Cation. *Journal of the American Chemical Society*, **1998**, 120, 13256-13257	16.4	27
101	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	2.5	27

100	Vibrational dependence of the NH3+ (v2)+NO and NO+(v)+NH3 charge transfer cross sections. *Chemical Physics Letters*, **1986**, 130, 467-472	2.5	27
99	Direct Spectroscopic Evidence of Photoisomerization in para-Methoxy Methylcinnamate Revealed by Low-Temperature Matrix-Isolation FTIR Spectroscopy. *Journal of Physical Chemistry Letters*, **2015**, 6, 1134-9	6.4	26
98	Photofragment-Detected IR Spectroscopy (PFDIRS) for the OH Stretching Vibration of the Hydrogen-Bonded Clusters in the S1 StateApplication to 2-Naphthol-B (B = H2O and CH3OH) Clusters. *Journal of Physical Chemistry A*, **2001**, 105, 5727-5730	2.8	26
97	Rotational analysis of v=1 level of n=8~10 Rydberg states of CO by triple resonant multiphoton spectroscopy. *Journal of Chemical Physics*, **1992**, 97, 3920-3930	3.9	26
96	Nascent rotational distribution and the relaxation of the N+2 ion produced by double resonant multiphoton ionization. *Journal of Chemical Physics*, **1988**, 88, 5307-5313	3.9	26
95	Double resonance effect on multiphoton ionization process of nitric oxide. *Chemical Physics Letters*, **1982**, 86, 445-448	2.5	26
94	Laser spectroscopic study of cold host-guest complexes of crown ethers in the gas phase. *ChemPhysChem*, **2013**, 14, 649-60	3.2	25
93	Laser spectroscopic investigation of salicylic acids hydrogen bonded with water in supersonic jets: Microsolvation effects for excited state proton dislocation. *Journal of Physical Chemistry A*, **2005**, 109, 2498-504	2.8	25
92	Ultraviolet Photodissociation Spectroscopy of the Cold K+□Calix[4]arene Complex in the Gas Phase. *Journal of Physical Chemistry A*, **2015**, 119, 8512-8	2.8	23
91	Rotational analysis of n=47 Rydberg states of CO observed by ion-dip spectroscopy. *Journal of Chemical Physics*, **1993**, 99, 9350-9365	3.9	23
90	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	2.5	22
89	Two-color double resonance in the four-photon ionization of nitric oxide. *Chemical Physics Letters*, **1982**, 89, 45-47	2.5	22
88	Conformation of Alkali Metal Ion-Benzo-12-Crown-4 Complexes Investigated by UV Photodissociation and UV-UV Hole-Burning Spectroscopy. *Journal of Physical Chemistry A*, **2016**, 120, 6394-401	2.8	21
87	Structure of host-guest complexes between dibenzo-18-crown-6 and water, ammonia, methanol, and acetylene: evidence of molecular recognition on the complexation. *Physical Chemistry Chemical Physics*, **2011**, 13, 6827-36	3.6	21
86	Infrared Spectroscopy of (Phenol)n+ (n = 2□4) and (Phenol□Benzene)+ Cluster Ions. *Journal of Physical Chemistry A*, **1997**, 101, 1798-1803	2.8	21
85	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	2.5	21
84	Infrared spectroscopy of precursor clusters for nucleophilic substitution reactions: fluorobenzene-(CH3OH)n (n = 1 and 2). *Chemical Physics Letters*, **1996**, 256, 1-7	2.5	21
83	Electronic spectra of jet-cooled cations of hydrogen-bonded complexes of phenol. *Spectrochimica Acta Part A: Molecular Spectroscopy*, **1994**, 50, 1413-1419		21

82	Nonradiative decay dynamics of methyl-4-hydroxycinnamate and its hydrated complex revealed by picosecond pump-probe spectroscopy. *Physical Chemistry Chemical Physics*, **2012**, 14, 8999-9005	3.6	20
81	Laser spectroscopic study on (dibenzo-24-crown-8-ether)-water and -methanol complexes in supersonic jets. *Physical Chemistry Chemical Physics*, **2010**, 12, 3559-65	3.6	20
80	Solvent Effects on the Encapsulation of Divalent Ions by Benzo-18-Crown-6 and Benzo-15-Crown-5. *Journal of Physical Chemistry A*, **2015**, 119, 8097-105	2.8	19
79	New insights into metal ion–crown ether complexes revealed by SEIRA spectroscopy. *New Journal of Chemistry*, **2015**, 39, 8673-8680	3.6	19
78	Anomalous cage effect of the excited state dynamics of catechol in the 18-crown-6-catechol host-guest complex. *Journal of Physical Chemistry B*, **2015**, 119, 2557-65	3.4	19
77	OH stretching vibrations and hydrogen-bonded structures of 7-hydroxyquinoline-(H2O)1,2 investigated by IR–UV double-resonance spectroscopy. *Chemical Physics Letters*, **2001**, 338, 52-60	2.5	19
76	Dehydrogenation Reaction from a Dihydrogen Bonded Precursor Complex in the Gas Phase. *Journal of Physical Chemistry A*, **2001**, 105, 10753-10758	2.8	19
75	Electronic and Vibrational Spectroscopy of Dihydrogen Bonded 2-Pyridone·Borane·Trimethylamine Complex in Supersonic Jets. *Journal of Physical Chemistry A*, **2001**, 105, 8642-8645	2.8	19
74	Autoionization-Detected Infrared Spectroscopy of Jet-Cooled Naphthol Cations. *Journal of Physical Chemistry A*, **2000**, 104, 7227-7232	2.8	19
73	Structures of (3n-Crown-n)-Phenol (n = 4, 5, 6, 8) Host-Guest Complexes: Formation of a Uniquely Stable Complex for n = 6 via Collective Intermolecular Interaction. *Journal of Physical Chemistry Letters*, **2012**, 3, 1414-20	6.4	18
72	Vibrational spectra and relaxation of benzonitrile and its clusters using time-resolved stimulated Raman–UV double resonance spectroscopy. *Journal of Raman Spectroscopy*, **2000**, 31, 295-304	2.3	17
71	Different photoisomerization routes found in the structural isomers of hydroxy methylcinnamate. *Physical Chemistry Chemical Physics*, **2018**, 20, 17583-17598	3.6	16
70	Laser spectroscopic and theoretical studies of encapsulation complexes of calix[4]arene. *Journal of Physical Chemistry A*, **2011**, 115, 10846-53	2.8	16
69	Electronic spectra of jet-cooled calix[4]arene and its van der Waals clusters: encapsulation of a neutral atom in a molecular bowl. *Journal of Chemical Physics*, **2007**, 126, 141101	3.9	16
68	Predissociation of the Rydberg states of CO: State specific predissociation to the triplet channel. *Journal of Chemical Physics*, **1998**, 108, 1765-1768	3.9	16
67	Vibrational energy relaxation of benzene dimer and trimer in the CH stretching region studied by picosecond time-resolved IR-UV pump-probe spectroscopy. *Journal of Chemical Physics*, **2012**, 136, 044304	3.9	15
66	Structures and encapsulation motifs of functional molecules probed by laser spectroscopic and theoretical methods. *Sensors*, **2010**, 10, 3519-48	3.8	15
65	Mode-dependent anharmonic coupling between OH stretching and intermolecular vibrations of the hydrogen-bonded clusters of phenol. *Chemical Physics*, **1998**, 231, 199-204	2.3	15

64	IR induced cis<-trans isomerization of 2-naphthol: Catalytic role of hydrogen-bond in the photoinduced isomerization. *Journal of Chemical Physics*, **2003**, 119, 2947-2950	3.9	15
63	Predissociation of Rydberg states of CO investigated by the detection of atomic fragments. *Journal of Chemical Physics*, **2001**, 114, 7886-7900	3.9	14
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61	Geometric and Electronic Structures of Dibenzo-15-Crown-5 Complexes with Alkali Metal Ions Studied by UV Photodissociation and UV-UV Hole-Burning Spectroscopy. *Journal of Physical Chemistry A*, **2017**, 121, 954-962	2.8	13
60	Picosecond IR-UV pump-probe study on the vibrational relaxation of phenol-ethylene hydrogen-bonded cluster: difference of relaxation route/rate between the donor and the acceptor site excitations. *Journal of Physical Chemistry A*, **2006**, 110, 6250-5	2.8	13
59	Mode dependent intracluster vibrational energy redistribution rate in size-selected benzonitrile(CHCl3)n=1 clusters. *Journal of Chemical Physics*, **2001**, 114, 7866-7876	3.9	13
58	The direct observation of the doorway nπ* state of methylcinnamate and hydrogen-bonding effects on the photochemistry of cinnamate-based sunscreens. *Physical Chemistry Chemical Physics*, **2019**, 21, 19755-19763	3.6	12
57	UV and IR spectroscopy of cold 1,2-dimethoxybenzene complexes with alkali metal ions. *Physical Chemistry Chemical Physics*, **2012**, 14, 4457-62	3.6	12
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55	Picosecond time-resolved study on the intramolecular vibrational energy redistribution of NH stretching vibration of jet-cooled aniline and its isotopomer. *Chemical Physics Letters*, **2006**, 432, 421-425	2.5	12
54	Vacuum ultraviolet-visible double resonance spectroscopy of NO. Observation of the high excited ns and nd Rydberg series. *Journal of Chemical Physics*, **1989**, 90, 6993-6999	3.9	12
53	Rotational isomerism, molecular motion and hydrogen bonding as studies by supersonic jet spectroscopy. *Journal of Molecular Structure*, **1990**, 237, 105-122	3.4	12
52	Encapsulation of Ar(n) complexes by calix[4]arene: endo- vs. exo-complexes. *Physical Chemistry Chemical Physics*, **2010**, 12, 4569-79	3.6	11
51	IR laser manipulation of cis-trans isomerization of 2-naphthol and its hydrogen-bonded clusters. *Journal of Chemical Physics*, **2006**, 124, 054315	3.9	11
50	Vibrational Spectroscopy for Size-Selected Fluorene(H2O)n=1,2 Clusters in Supersonic Jets. *Journal of Physical Chemistry A*, **2000**, 104, 11891-11896	2.8	11
49	UV photodissociation spectroscopy of cryogenically cooled gas phase host-guest complex ions of crown ethers. *Physical Chemistry Chemical Physics*, **2015**, 17, 25925-34	3.6	10
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47	Vibrational overlap integrals between the neutral and ion states of NH3 and ND3: Application to the vibrational dependence of the NH3+(v2)+NH3(0) symmetric charge transfer reaction. *International Journal of Mass Spectrometry and Ion Processes*, **1987**, 80, 51-62		10

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