

Naohiko Mikami

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11479107/naohiko-mikami-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213
papers

8,462
citations

51
h-index

78
g-index

219
ext. papers

8,757
ext. citations

3.8
avg, IF

5.63
L-index

#	Paper	IF	Citations
213	Infrared spectroscopic evidence for protonated water clusters forming nanoscale cages. <i>Science</i> , 2004 , 304, 1134-7	33.3	448
212	Vibrational spectroscopy of small-sized hydrogen-bonded clusters and their ions. <i>International Reviews in Physical Chemistry</i> , 1998 , 17, 331-361	7	344
211	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	2.5	283
210	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	3.9	240
209	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 ¹⁴²	3.9	142
208	Infrared Spectroscopy of Hydrogen-Bonded Phenol-Amine Clusters in Supersonic Jets. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16053-16057		138
207	Magnitude of the CH/π interaction in the gas phase: experimental and theoretical determination of the accurate interaction energy in benzene-methane. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4397-404	2.8	130
206	Two-color photoionization of van der Waals complexes of fluorobenzene and hydrogen-bonded complexes of phenol in supersonic jets. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 3642-3648		127
205	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		125
204	Fluorescence excitation spectra of hydrogen-bonded phenols in a supersonic free jet. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 1768-1771		124
203	Electronic spectra of tropolone in a supersonic free jet. Proton tunneling in the S ₁ state. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 4401-4405		122
202	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		108
201	Magnitude and nature of interactions in benzene-X (X=ethylene and acetylene) in the gas phase: significantly different CH/π interaction of acetylene as compared with those of ethylene and methane. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 753-8	2.8	103
200	The fluorescence excitation spectrum of aniline in a supersonic free jet: Double minimum potential for the inversion vibration in the excited state. <i>Chemical Physics Letters</i> , 1980 , 74, 531-535	2.5	103
199	Rotational isomers of meta-substituted phenols and .beta.-naphthol studied by electronic spectra in supersonic free jets. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 5180-5186		97
198	Origin of the attraction in aliphatic C-H/π interactions: infrared spectroscopic and theoretical characterization of gas-phase clusters of aromatics with methane. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10583-90	2.8	94
197	Characterization of the Hydrogen-Bonded Cluster Ions [Phenol-(H ₂ O) _n] ⁺ (n = 1-4), (Phenol) ₂ ⁺ , and (Phenol-Methanol) ⁺ 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		83

- 196 Electronic spectra and ionization potentials of rotational isomers of several disubstituted benzenes. *Chemical Physics Letters*, **1985**, 116, 50-54 2.5 83
- 195 Infrared spectra and hydrogen-bonded network structures of large protonated water clusters $H+(H_2O)_n$ ($n=20-200$). *Angewandte Chemie - International Edition*, **2010**, 49, 10119-22 16.4 82
- 194 Vibrational spectroscopy of size-selected neutral and cationic clusters combined with vacuum-ultraviolet one-photon ionization detection. *Physical Chemistry Chemical Physics*, **2009**, 11, 1279-30 3.6 81
- 193 Electronic spectra of uracil in a supersonic jet. *Chemical Physics Letters*, **1986**, 126, 583-587 2.5 80
- 192 Solvated phenol studied by supersonic jet spectroscopy. *The Journal of Physical Chemistry*, **1983**, 87, 5083-5090 7.7
- 191 An Infrared Study of π -Hydrogen Bonds in Micro-solvated Phenol: π -OH Stretching Vibrations of Phenol $_X$ ($X = C_6H_6, C_2H_4,$ and C_2H_2) Clusters in the Neutral and Cationic Ground States. *Journal of Physical Chemistry A*, **2002**, 106, 8554-8560 2.8 75
- 190 Experimental and theoretical determination of the accurate interaction energies in benzene-halomethane: the unique nature of the activated CH/ π interaction of haloalkanes. *Physical Chemistry Chemical Physics*, **2008**, 10, 2836-43 3.6 72
- 189 Infrared spectroscopy of hydrated benzene cluster cations, $[C_6H_6-(H_2O)_n]^+(n = 1-8)$: Structural changes upon photoionization and proton transfer reactions. *Physical Chemistry Chemical Physics*, **2003**, 5, 1137-1148 3.6 72
- 188 Infrared dissociation spectroscopy of the OH stretching vibration of phenol $_n$ rare gas van der Waals cluster ions. *Chemical Physics Letters*, **1994**, 225, 104-107 2.5 72
- 187 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
- 186 Characterizations of the hydrogen-bond structures of 2-naphthol- $(H_2O)_n$ ($n=0-5$) clusters by infrared-ultraviolet double-resonance spectroscopy. *Journal of Chemical Physics*, **1998**, 109, 6303-6311 3.9 71
- 185 Structures and the vibrational relaxations of size-selected benzonitrile $(H_2O)_n=1-8$ and $(CH_3OH)_n=1-8$ clusters studied by fluorescence detected Raman and infrared spectroscopies. *Journal of Chemical Physics*, **1999**, 110, 9504-9515 3.9 71
- 184 Two-photon excitation spectra of naphthalene and naphthalene- d_8 . *Chemical Physics Letters*, **1975**, 31, 472-478 2.5 69
- 183 A Molecular Cluster Study on Activated CH/ π Interactions: Infrared Spectroscopy of Aromatic Molecule $_n$ acetylene Clusters. *Journal of Physical Chemistry A*, **2004**, 108, 2652-2658 2.8 65
- 182 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
- 181 Infrared spectroscopy of OH stretching vibrations of hydrogen-bonded tropolone- $(H_2O)_n$ ($n=1-8$) and tropolone- $(CH_3OH)_n$ ($n=1$ and 2) clusters. *Journal of Chemical Physics*, **1996**, 105, 2618-2627 3.9 65
- 180 Spectroscopic Study of Intracluster Proton Transfer in Small Size Hydrogen-Bonding Clusters of Phenol. *Bulletin of the Chemical Society of Japan*, **1995**, 68, 683-695 5.1 65
- 179 Electronic spectra and vibronic coupling of pyrazine. *Journal of Molecular Spectroscopy*, **1974**, 52, 21-37 1.3 65

178	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	2.8	61
177	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	3.9	61
176	Electronic spectra of jet-cooled azulene. <i>Chemical Physics</i> , 1983 , 77, 191-200	2.3	61
175	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		60
174	Dynamics of radiationless processes studied in pulsed supersonic free jets: Some naphthalene lifetimes. <i>Chemical Physics Letters</i> , 1979 , 60, 364-367	2.5	60
173	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	16.4	58
172	Internal Rotation of the Methyl Group in the Electronically Excited State: o- and m-Toluidine. <i>Laser Chemistry</i> , 1987 , 7, 197-212		57
171	Picosecond IR-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	2.8	56
170	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	3.9	56
169	Autoionization-Detected Infrared Spectroscopy of Molecular Ions. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5963-5965	2.8	55
168	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	2.5	55
167	Highly excited states of nitric oxide studied by two-color double resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1983 , 78, 1132-1139	3.9	54
166	A New Electronic State of Aniline Observed in the Transient IR Absorption Spectrum from S ₁ in a Supersonic Jet. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11070-11074	2.8	53
165	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	2.8	53
164	Two-photon excitation spectra of naphthalene-h ₈ and -d ₈ : Vibronic coupling involving the ground state. <i>Chemical Physics</i> , 1977 , 23, 141-152	2.3	52
163	Photodissociation of the hydrogen-bonded [phenol-ammonia] ⁺ heterodimer ion. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 1858-1862		51
162	Sensitized phosphorescence excitation spectra of biacetyl, benzaldehyde and benzophenone in supersonic jets. <i>Chemical Physics Letters</i> , 1984 , 109, 217-220	2.5	51
161	Infrared Spectroscopy of Size-Selected Benzene-Water Cluster Cations [C ₆ H ₆ (H ₂ O) _n] ⁺ (n = 1-3): Hydrogen Bond Network Evolution and Microscopic Hydrophobicity. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10656-10660	2.8	50

160	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	2.3	50
159	Dispersed fluorescence spectra of hydrogen-bonded phenols in a supersonic free jet. <i>The Journal of Physical Chemistry</i> , 1982 , 86, 2567-2569		50
158	IRUV 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	2.8	48
157	Morphology of protonated methanol clusters: an infrared spectroscopic study of hydrogen bond networks of H+(CH ₃ OH) _n (n = 4-15). <i>Journal of Physical Chemistry A</i> , 2005 , 109, 138-41	2.8	47
156	Vibrational spectroscopic evidence of unconventional hydrogen bonds. <i>International Journal of Mass Spectrometry</i> , 2002 , 220, 289-312	1.9	47
155	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	3.9	47
154	Experimental and theoretical determination of the accurate CH/π interaction energies in benzene-alkane clusters: correlation between interaction energy and polarizability. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14131-41	3.6	46
153	Size Dependence of Intracuster Proton Transfer of Phenol(H ₂ O) _n (n = 1-4) Cations. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 4765-4769		45
152	Long range influence of an excess proton on the architecture of the hydrogen bond network in large-sized water clusters. <i>Journal of Chemical Physics</i> , 2007 , 126, 231101	3.9	45
151	Direct Observation of Weak Hydrogen Bonds in Microsolvated Phenol: Infrared Spectroscopy of OH Stretching Vibrations of PhenolCO and CO ₂ in S ₀ and D ₀ . <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10124-10129	2.8	45
150	Evidence of a dihydrogen bond in gas phase: PhenolBorane-dimethylamine complex. <i>Journal of Chemical Physics</i> , 2000 , 113, 9885-9888	3.9	44
149	Vibrational Relaxation of OH and OD Stretching Vibrations of Phenol and Its Clusters Studied by IRUV PumpProbe Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 7974-7979	2.8	44
148	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, 7400-9	3.9	42
147	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	2.8	42
146	Degenerate four-wave mixing and photofragment yield spectroscopic study of jet-cooled SO ₂ in the C 1B ₂ state: Internal conversion followed by dissociation in the X state. <i>Journal of Chemical Physics</i> , 1997 , 107, 8752-8758	3.9	41
145	Two-color excitation of NO in a supersonic free jet. Autoionization of high rydberg states. <i>Chemical Physics</i> , 1984 , 89, 103-109	2.3	40
144	Stable forms of the phenol-complex cations as revealed by trapped ion photodissociation spectroscopy. <i>Chemical Physics Letters</i> , 1993 , 202, 431-436	2.5	39
143	Vibrational predissociation and nonradiative process of electronically excited van der Waals complexes of pyrimidine. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 3512-3521		39

142	Rotational energy transfer in NO ($A_2\tilde{\Pi}$, $v = 0$ and 1) studied by two-color double-resonance spectroscopy. <i>Chemical Physics</i> , 1984 , 84, 151-157	2.3	38
141	Vibronic coupling involving the ground states of benzene and naphthalene. <i>Journal of Chemical Physics</i> , 1976 , 64, 3077-3078	3.9	38
140	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. <i>Journal of Chemical Physics</i> , 2004 , 120, 7410-7	3.9	37
139	Infrared spectroscopy of size-selected neutral clusters combined with vacuum-ultraviolet-photoionization mass spectrometry. <i>Chemical Physics Letters</i> , 2006 , 422, 378-381	2.5	35
138	Photodestruction spectroscopy of carbon disulfide cluster anions $(CS_2)_n^-$ ($n=1-4$): Evidence for the dimer core structure and competitive reactions of the dimer anion. <i>Journal of Chemical Physics</i> , 1998 , 108, 1368-1376	3.9	35
137	Intracluster ion molecule reactions within the photoionized van der Waals complexes of fluorobenzene with ammonia and with water. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7197-7204		35
136	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		35
135	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, 11530-4	3.9	34
134	Sensitized phosphorescence excitation spectra of benzoic acid monomer and methyl benzoate and their complexes in supersonic jets. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 3636-3641		34
133	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		33
132	Binding Energy of the Benzene-Water Cluster Cation: An Ar-Mediated IR Photodissociation Study. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 8269-8272	2.8	33
131	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	2.8	33
130	Spectroscopic investigation of the generation of isomerization states: Eigenvector analysis of the bend-CP stretch polyad. <i>Journal of Chemical Physics</i> , 1998 , 109, 492-503	3.9	33
129	Photodetachment of small water cluster anions in the near-infrared through the visible region. <i>Chemical Physics Letters</i> , 1997 , 264, 292-296	2.5	32
128	Infrared predissociation spectroscopy of cluster cations of protic molecules, $(NH_3)_n^+$, $n=2-4$ and $(CH_3OH)_n^+$, $n=2,3$. <i>Journal of Chemical Physics</i> , 2008 , 129, 094306	3.9	32
127	Electronic spectroscopy of benzene-water cluster cations, $[C_6H_6(H_2O)_n]^+$ ($n=1-4$): spectroscopic evidence for phenyl radical formation through size-dependent intracluster proton transfer reactions. <i>Chemical Physics Letters</i> , 2004 , 399, 412-416	2.5	32
126	Gas phase dihydrogen bonding: clusters of borane-amines with phenol and aniline. <i>Chemical Physics</i> , 2002 , 283, 193-207	2.3	32
125	Gas phase dihydrogen bonded phenol-borane-trimethylamine complex. <i>Journal of Chemical Physics</i> , 2001 , 114, 8877-8879	3.9	32

124	Fluorescence excitation spectra of weakly bound complexes of benzene in a supersonic free jet. <i>Chemical Physics Letters</i> , 1983 , 94, 549-552	2.5	32
123	n,π^* State of jet-cooled benzophenone as studied by sensitized phosphorescence excitation spectroscopy. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 5615-5619		32
122	Observation of the isomerization states of HCP by stimulated emission pumping spectroscopy: Comparison between theory and experiment. <i>Journal of Chemical Physics</i> , 1997 , 106, 2980-2983	3.9	31
121	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, 12690-5	11.5	30
120	Dihydrogen bonded phenol-borane-dimethylamine complex: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2002 , 116, 6056-6063	3.9	29
119	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	3.9	29
118	Intersystem crossing in jet-cooled naphthalene, 1-chloronaphthalene as studied by sensitized phosphorescence excitation spectroscopy. <i>Chemical Physics Letters</i> , 1986 , 127, 292-296	2.5	29
117	Two-color multiphoton ionization of diazabicyclooctane in a supersonic free jet. <i>Chemical Physics Letters</i> , 1983 , 101, 578-582	2.5	29
116	The Resonance Raman Effect of Azobenzene and p-Aminoazobenzene. <i>Bulletin of the Chemical Society of Japan</i> , 1972 , 45, 3542-3543	5.1	29
115	First Observation of Intramolecular Charge-Transfer Emission from Jet-Cooled (p-Cyanophenyl)pentamethyldisilane in an Isolated Molecular Condition. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7400-7401	16.4	28
114	Nucleophilic substitution within the photoionized van der Waals complex: generation of C ₆ H ₅ NH ₃ ⁺ from C ₆ H ₅ Cl-NH ₃ . <i>Journal of the American Chemical Society</i> , 1988 , 110, 7238-7239	16.4	28
113	Intramolecular electronic energy transfer of bichromophoric molecules in a supersonic free jet. <i>Chemical Physics Letters</i> , 1984 , 110, 597-601	2.5	28
112	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	3.9	27
111	CH stretching vibrations of benzene and toluene in their S ₁ states observed by double resonance vibrational spectroscopy in supersonic jets. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1537-1541	3.6	27
110	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	3.9	27
109	A New Type of Intramolecular Hydrogen Bonding: Hydroxyl-Methyl Interactions in the o-Cresol Cation. <i>Journal of the American Chemical Society</i> , 1998 , 120, 13256-13257	16.4	27
108	Excitation and dispersed fluorescence spectra of the 1B ₂ (V)-1A ₁ ⁺ (X) transition of jet-cooled CS ₂ . <i>Chemical Physics</i> , 1984 , 86, 173-188	2.3	27
107	Compatibility between methanol and water in the three-dimensional cage formation of large-sized protonated methanol-water mixed clusters. <i>Journal of Chemical Physics</i> , 2007 , 126, 194306	3.9	26

106	Photofragment-Detected IR Spectroscopy (PFDIRS) for the OH Stretching Vibration of the Hydrogen-Bonded Clusters in the S1 State Application to 2-Naphthol-B (B = H2O and CH3OH) Clusters. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 5727-5730	2.8	26
105	Nucleophilic substitution within the photoionized van der Waals complex chlorobenzene-ammonia. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 6973-6977		26
104	Double resonance effect on multiphoton ionization process of nitric oxide. <i>Chemical Physics Letters</i> , 1982 , 86, 445-448	2.5	26
103	Vibrational energy redistribution in jet-cooled hydrogen-bonded phenols. <i>Chemical Physics Letters</i> , 1982 , 93, 217-220	2.5	26
102	Laser spectroscopic investigation of salicylic acids hydrogen bonded with water in supersonic jets: Microsolvation effects for excited state proton dislocation. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 2498-504	2.8	25
101	Catalytic action of a single water molecule in a proton-migration reaction. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4898-901	16.4	24
100	Trapped ion photodissociation spectroscopy: the electronic spectrum of the hydrogen-bonded complex cation [C6H5OH?N(CH3)3] ⁺ . <i>Chemical Physics Letters</i> , 1991 , 180, 431-435	2.5	24
99	Sensitized phosphorescence excitation spectra of complexes of glyoxal, pyrazine, and phenol. Great enhancement of phosphorescence yield by complexation. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 2370-2374		24
98	Theoretical analyses of the morphological development of the hydrogen bond network in protonated methanol clusters. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9438-45	2.8	23
97	Rotational analysis of n=4 Rydberg states of CO observed by ion-dip spectroscopy. <i>Journal of Chemical Physics</i> , 1993 , 99, 9350-9365	3.9	23
96	Chemistry of organosilicon compounds. 277. Conformational analysis of phenylpentamethyldisilane and related compounds as studied by free-jet laser spectroscopy. <i>Organometallics</i> , 1991 , 10, 3793-3795	3.8	23
95	Selective complexation of rotational isomers of p-dimethoxybenzene as studied by electronic spectra in a supersonic jet. <i>Chemical Physics Letters</i> , 1986 , 125, 1-4	2.5	23
94	Mass-selected two-color multiphoton ionization of the hydrogen-bonded complex phenol-trimethylamine: generation of the protonated ion trimethylammonium(1+). <i>The Journal of Physical Chemistry</i> , 1987 , 91, 5242-5247		23
93	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	2.5	22
92	Two-color photoionization of van der waals complexes of fluorobenzene in a supersonic free jet. <i>Chemical Physics Letters</i> , 1984 , 107, 22-26	2.5	22
91	Rydberg states (n = 4-9) of azabicyclo [2.2.2] octane as studied by two-color fluorescence DIP and multiphoton ionization spectroscopies. <i>Chemical Physics</i> , 1985 , 99, 193-206	2.3	22
90	One-photon and Two-photon Electronic Spectra of Two Caged Amines. <i>Bulletin of the Chemical Society of Japan</i> , 1982 , 55, 2796-2802	5.1	22
89	Two-color double resonance in the four-photon ionization of nitric oxide. <i>Chemical Physics Letters</i> , 1982 , 89, 45-47	2.5	22

88	Isomer-selective infrared spectroscopy of the cationic trimethylamine dimer to reveal its charge sharing and enhanced acidity of the methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9619-24	3.6	21
87	Infrared Spectroscopy of (Phenol) _n ⁺ (n = 2-8) and (Phenol-Benzene) _n ⁺ Cluster Ions. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1798-1803	2.8	21
86	Size-selected infrared predissociation spectroscopy of neutral and cationic formamide-water clusters: stepwise growth of hydrated structures and intracluster hydrogen transfer induced by vacuum-ultraviolet photoionization. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 6840-9	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. <i>Chemical Physics Letters</i> , 2003 , 376, 788-793	2.5	21
84	Intramolecular charge-transfer process of jet-cooled (p-cyanophenyl)pentamethyldisilane: roles of the torsional motion and the Si-Si bond change. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6220-30	16.4	21
83	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	2.5	21
82	Electronic spectra of jet-cooled cations of hydrogen-bonded complexes of phenol. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994 , 50, 1413-1419		21
81	Observation of an isolated intermediate of the nucleophilic aromatic substitution reaction by infrared spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6008-10	16.4	20
80	Ion trap method combined with two-color laser spectroscopy of supersonic molecular beams: Photodissociation of trapped C ₆ H ₅ Cl ⁺ . <i>Chemical Physics Letters</i> , 1990 , 166, 470-474	2.5	20
79	Intermolecular proton-transfer in acetic acid clusters induced by vacuum-ultraviolet photoionization. <i>Journal of Chemical Physics</i> , 2009 , 131, 184304	3.9	19
78	OH stretching vibrations and hydrogen-bonded structures of 7-hydroxyquinoline-(H ₂ O) ₁₈ investigated by IRUV double-resonance spectroscopy. <i>Chemical Physics Letters</i> , 2001 , 338, 52-60	2.5	19
77	Dehydrogenation Reaction from a Dihydrogen Bonded Precursor Complex in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 10753-10758	2.8	19
76	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	2.8	19
75	Autoionization-Detected Infrared Spectroscopy of Jet-Cooled Naphthol Cations. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 7227-7232	2.8	19
74	Two-color multiphoton ionization spectra of jet-cooled p-difluorobenzene - s and d Rydberg states. <i>Chemical Physics Letters</i> , 1986 , 127, 297-302	2.5	19
73	Comprehensive analysis of the hydrogen bond network morphology and OH stretching vibrations in protonated methanol-water mixed clusters, H ⁽⁺⁾ (MeOH) ₁ (H ₂ O) _n (n = 1-8). <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10125-33	2.8	18
72	Dynamics of hydrogen-bonded OH stretches as revealed by single-mode infrared-ultraviolet laser double resonance spectroscopy on supersonically cooled clusters of phenol. <i>Journal of Chemical Physics</i> , 2008 , 129, 154308	3.9	18
71	Infrared and electronic spectroscopy of a model system for the nucleophilic substitution intermediate in the gas phase: the C-N valence bond formation in the benzene-ammonia cluster cation. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6387-90	2.8	18

70	Complete infrared spectroscopic characterization of phenol-borane-trimethylamine dihydrogen-bonded complex in the gas phase. <i>Journal of Chemical Physics</i> , 2006 , 124, 241103	3.9	18
69	First observation of a dihydrogen bond involving the Si-H group in phenol-diethylmethylsilane clusters by infrared-ultraviolet double-resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2005 , 123, 224309	3.9	18
68	Electron localization in negatively charged formamide clusters studied by photodetachment spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 827-33	3.6	17
67	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	2.3	17
66	Ion dips in two-color photoionization spectra of jet-cooled trans-stilbene stimulated transitions to ground-state vibrational levels. <i>Chemical Physics Letters</i> , 1985 , 120, 333-336	2.5	17
65	Infrared and electronic spectroscopy of benzene-ammonia cluster radical cations [C(6)H(6)(NH(3))(1,2)](+): observation of isolated and microsolvated π -complexes. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 11060-9	2.8	16
64	Predissociation of the Rydberg states of CO: State specific predissociation to the triplet channel. <i>Journal of Chemical Physics</i> , 1998 , 108, 1765-1768	3.9	16
63	Experimental and theoretical investigations of isomerization reactions of ionized acetone and its dimer. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 712-9	3.6	15
62	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	2.3	15
61	IR induced cis-trans isomerization of 2-naphthol: Catalytic role of hydrogen-bond in the photoinduced isomerization. <i>Journal of Chemical Physics</i> , 2003 , 119, 2947-2950	3.9	15
60	Polarized absorption spectrum of phenazine crystal. <i>Journal of Molecular Spectroscopy</i> , 1971 , 37, 147-158.	3	15
59	Observation of Intramolecular Hydrogen Bonds of o-Fluorophenol Ions by Using Autoionization Detected Infrared Spectroscopy. <i>Chemistry Letters</i> , 1997 , 26, 1099-1100	1.7	14
58	Infrared predissociation spectroscopy of ammonia cluster cations (NH ₃) _n ⁺ (n=2-4) produced by vacuum-ultraviolet photoionization. <i>Journal of Chemical Physics</i> , 2006 , 125, 164320	3.9	14
57	First observation of ionic hydrogen bonds; vibrational spectroscopy of dihydrated naphthalene anion (Nph(H ₂ O) ₂). <i>Chemical Physics Letters</i> , 2003 , 370, 535-541	2.5	14
56	Predissociation of Rydberg states of CO investigated by the detection of atomic fragments. <i>Journal of Chemical Physics</i> , 2001 , 114, 7886-7900	3.9	14
55	Rotationally resolved fluorescence excitation spectra of jet-cooled pyrimidine and pyrimidine-argon van der Waals complex. <i>The Journal of Physical Chemistry</i> , 1986 , 90, 5619-5622		14
54	Electronic and infrared spectroscopy of [benzene-(methanol)(n)] ⁺ (n = 1-6). <i>Journal of Physical Chemistry A</i> , 2005 , 109, 9471-80	2.8	13
53	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. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6250-5	2.8	13

52	Mode dependent intracluster vibrational energy redistribution rate in size-selected benzonitrile($\text{C}_6\text{H}_5\text{CN}$) $_n$ clusters. <i>Journal of Chemical Physics</i> , 2001 , 114, 7866-7876	3.9	13
51	Spectroscopy and dynamics of fluorobenzene-carbon tetrachloride complex in a supersonic free jet. <i>The Journal of Physical Chemistry</i> , 1983 , 87, 4406-4411		13
50	Multiphoton Spectroscopy. <i>Applied Spectroscopy Reviews</i> , 1980 , 16, 299-352	4.5	13
49	Infrared spectroscopy for acetone and its dimer based on photoionization detection with tunable coherent vacuum-ultraviolet light. <i>Chemical Physics Letters</i> , 2009 , 471, 50-53	2.5	12
48	Picosecond time-resolved study on the intramolecular vibrational energy redistribution of NH stretching vibration of jet-cooled aniline and its isotopomer. <i>Chemical Physics Letters</i> , 2006 , 432, 421-425	2.5	12
47	Two-color multiphoton dissociation/ionization of jet-cooled $\text{Cr}(\text{acac})_3$ and $\text{Cr}(\text{CO})_6$. Appearance energies of Cr atom. <i>Chemical Physics</i> , 1988 , 127, 161-171	2.3	12
46	The Two-Photon Excitation Spectrum of Phenanthrene Crystal. <i>Bulletin of the Chemical Society of Japan</i> , 1977 , 50, 2899-2901	5.1	12
45	The large variation in acidity of diethyl ether cation induced by internal rotation about a single covalent bond. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 4885-90	2.8	11
44	Proton switch correlated with the morphological development of the hydrogen-bond network in $\text{H}^+(\text{MeOH})_m(\text{H}_2\text{O})_1$ ($m = 1-9$): a theoretical and infrared spectroscopic study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2323-32	2.8	11
43	IR laser manipulation of cis/trans isomerization of 2-naphthol and its hydrogen-bonded clusters. <i>Journal of Chemical Physics</i> , 2006 , 124, 054315	3.9	11
42	Vibrational Spectroscopy for Size-Selected Fluorene(H_2O) $_n$ Clusters in Supersonic Jets. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11891-11896	2.8	11
41	Direct observation of the solvent reorientation dynamics in the "twisted" intramolecular charge-transfer process of cyanophenylsilane-water cluster by transient infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 117-26	3.6	10
40	Determination of the equilibrium structure of the charge-transfer state of (p-Cyanophenyl)pentamethyldisilane by means of transient infrared spectroscopy. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8959-61	2.8	10
39	Stimulated Emission Pumping Spectroscopy of SiH_2 : First Observation of the Spin-Orbit Interaction between the X^1A_1 and the \tilde{B}^1B_1 States. <i>Journal of Molecular Spectroscopy</i> , 2002 , 216, 90-97	1.3	10
38	Photodissociation of jet-cooled acetylacetonato complexes of the first transition metals. Free metal generation and fragmentational ionization. <i>Chemical Physics</i> , 1990 , 141, 431-440	2.3	10
37	Infrared vibrational autodetachment spectroscopy of microsolvated benzonitrile radical anions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13712-6	2.8	9
36	Autoionization-detected infrared (ADIR) spectroscopy of molecular cations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000 , 108, 21-30	1.7	9
35	Predissociation of Rydberg states of CO investigated by the detection of the $\text{C}(3\text{P})$ fragment. <i>Chemical Physics Letters</i> , 1995 , 240, 357-361	2.5	9

34	Trapped ion photodissociation spectroscopy. Photodissociation of p-dichlorobenzene cation. <i>Chemical Physics Letters</i> , 1993 , 209, 379-382	2.5	9
33	Dual Fluorescence of Pyrazine Cooled in a Supersonic Free Jet. <i>Bulletin of the Chemical Society of Japan</i> , 1982 , 55, 374-379	5.1	9
32	First observation of the B1A1 state of SiH2 and SiD2 radicals by optical-optical double resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2005 , 122, 154302	3.9	8
31	Characteristic distributions of negatively charged N-monosubstituted amide clusters generated by electron attachment in supersonic expansions. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2725	3.6	8
30	Spectroscopic Investigation on the Microscopic Solvation Effect on the Intramolecular Charge-Transfer Process of (p-Cyanophenyl)pentamethyldisilane in Supersonic Jets. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 10781-10786	2.8	8
29	Infrared Photodissociation Spectroscopy of n-Propylbenzene-Ar Cluster Cations: Charge Delocalization between the Aromatic Ring and the Alkyl Chain. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4882-4886	2.8	8
28	Observation of the nuCH Excited Vibrational Levels in the "A" State of HCP by IR-UV Double Resonance Spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 1999 , 194, 52-60	1.3	8
27	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. <i>Chemical Physics Letters</i> , 2007 , 442, 217-219	2.5	7
26	Photoelectron spectroscopy of microsolvated benzophenone radical anions to reveal the origin of solvatochromic shifts in alcoholic media. <i>Chemical Physics Letters</i> , 2008 , 457, 18-22	2.5	7
25	Solvation-induced H-bonded complex structure formation in the gas phase: a revisit to the infrared spectroscopy of [C6H6-(CH3OH)2]+. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 11156-61	2.8	6
24	Catalytic Action of a Single Water Molecule in a Proton-Migration Reaction. <i>Angewandte Chemie</i> , 2010 , 122, 5018-5021	3.6	6
23	Stepwise solvatochromism of ketyl anions in the gas phase: photodetachment excitation spectroscopy of benzophenone and acetophenone radical anions microsolvated with methanol. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7646-52	2.8	6
22	Vibrationally autoionizing Rydberg clusters: Spectroscopy and dynamics of pyrazine-Ar and Xe clusters. <i>Journal of Chemical Physics</i> , 2000 , 113, 8000-8008	3.9	6
21	Polarized Two-photon Absorption Spectra of Naphthalene in Durene Single Crystal with Two Synchronized Tunable Dye Lasers. <i>Bulletin of the Chemical Society of Japan</i> , 1979 , 52, 3484-3495	5.1	6
20	Interpreting the physical background of empirical solvent polarity via photodetachment spectroscopy of microsolvated aromatic ketyl anions. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10593-602	2.8	5
19	Solvent reorientation process in the "twisted" intramolecular charge-transfer process of cyanophenyldisilane-(H2O)2 cluster investigated by transient infrared spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1168-71	2.8	5
18	Fluorescence enhancement detected IR (FEDIR) spectroscopy: a new background free IR spectroscopic technique for highly fluorescent molecules. <i>Chemical Physics Letters</i> , 2002 , 361, 453-456	2.5	5
17	Discrimination of s-cis/s-trans conformers of jet-cooled methyl cinnamate by population labelling spectroscopy. <i>Research on Chemical Intermediates</i> , 1998 , 24, 803-812	2.8	5

16	Higher singlet and triplet n,π* states of glyoxal vapor. <i>Chemical Physics Letters</i> , 1985 , 119, 17-21	2.5	5
15	Infrared Spectra and Hydrogen-Bonded Network Structures of Large Protonated Water Clusters H+(H ₂ O) _n (n=20-100). <i>Angewandte Chemie</i> , 2010 , 122, 10317-10320	3.6	4
14	Rotational analysis of jet-cooled phenylpentamethyldisilane: vibronic interaction with the intramolecular charge-transfer state. <i>Chemical Physics</i> , 2002 , 283, 379-388	2.3	4
13	Intracluster Ion-Molecule Reactions of Dimer Cations of Phenylsilanes. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2007-2012	2.8	4
12	Hyperconjugation in diethyl ether cation versus diethyl sulfide cation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23602-12	3.6	3
11	Observation of an Isolated Intermediate of the Nucleophilic Aromatic Substitution Reaction by Infrared Spectroscopy. <i>Angewandte Chemie</i> , 2008 , 120, 6097-6099	3.6	3
10	Infrared Spectroscopic Evidence for Protonated Water Clusters Forming Nanoscale Cages.. <i>ChemInform</i> , 2004 , 35, no		3
9	Observation of the Highly Excited Vibrational Levels of HCP: Application of IR-UV-SEP Triple Resonance Spectroscopy. <i>Chemistry Letters</i> , 1999 , 28, 941-942	1.7	3
8	SVL fluorescence spectra from the 1B ₂ state of CS ₂ cooled in a supersonic free jet. <i>Chemical Physics Letters</i> , 1981 , 83, 488-492	2.5	3
7	Polarized Absorption Spectrum of the Second S-π* Transition of Phenazine Crystals. <i>Bulletin of the Chemical Society of Japan</i> , 1972 , 45, 992-996	5.1	3
6	Predissociation mechanism and dynamics of HCP. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 13081-8	2.8	2
5	Intracluster Ion-Molecule Reactions of Phenylsilane Dimer Cation following the Charge Resonance Band Excitation. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9257-9259	2.8	2
4	Photodetachment spectroscopy of fluorenone radical anions microsolvated with methanol: rationalizing the anomalous solvatochromic behavior due to hydrogen bonding. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3721-30	2.8	1
3	The Polarized Phosphorescence Spectra of Phenazine in a Phenanthrene Crystal. <i>Bulletin of the Chemical Society of Japan</i> , 1973 , 46, 1076-1080	5.1	1
2	Microscopic Solvation Effects on Si-Si Bond Cleavage Reactions of Cluster Cation Radicals of (p-Cyanophenyl)pentamethyldisilane with Hydroxylic Molecules. <i>Chemistry Letters</i> , 1998 , 27, 415-416	1.7	
1	Confinement and Low-Energy Extraction of Photo-Fragment Ions Using RF Ion Trapping. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 334, 451		