

# Fumiyuki Ito

## List of Publications by Year in descending order

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817  
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#	ARTICLE	IF	CITATIONS
1	Jet-cooled infrared spectra of the formic acid dimer by cavity ring-down spectroscopy: observation of the O-H stretching region. <i>Chemical Physics</i> , 2002, 277, 163-169.	1.9	55
2	A jet-cooled infrared spectrum of the formic acid dimer by cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2000, 318, 571-577.	2.6	45
3	Infrared spectra of (HCOOH) <sub>2</sub> and (DCOOH) <sub>2</sub> in rare gas matrices: A comparative study with gas phase spectra. <i>Journal of Chemical Physics</i> , 2008, 128, 114310.	3.0	38
4	Isomeric structures of CH <sub>3</sub> I dimers in a supersonic jet studied by matrix-isolation infrared spectroscopy and ab initio calculation. <i>Chemical Physics Letters</i> , 2001, 343, 185-191.	2.6	37
5	Infrared depletion spectroscopy of the aniline-H <sub>2</sub> O <sup>+</sup> cluster cation. <i>Chemical Physics Letters</i> , 1997, 279, 309-314.	2.6	35
6	High precision line profile measurements on <sup>13</sup> C acetylene using a near infrared frequency comb spectrometer. <i>Journal of Molecular Spectroscopy</i> , 2008, 249, 95-99.	1.2	35
7	Investigations on the Hydrogen Bond Interaction in the Aniline~Furan Complex and Its Cation by Infrared Depletion Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5440-5445.	2.5	34
8	Vibrational and rotational energy distributions of CH <sub>3</sub> and IF formed in the reactions of F atoms with CH <sub>4</sub> and CH <sub>3</sub> I. <i>Journal of Chemical Physics</i> , 1990, 92, 5328-5337.	3.0	32
9	Phase-sensitive molecular ionization induced by a phase-controlled two-color laser field in methyl halides. <i>Physical Review A</i> , 2006, 74, .	2.5	32
10	Investigation of the N-H Stretching Vibrations of the Aniline~Pyrrole Binary Complex and Its Cation by Infrared Depletion Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4788-4793.	2.5	31
11	Structures of methyl halide dimers in supersonic jets by matrix-isolation infrared spectroscopy and quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2004, 690, 9-16.	3.6	31
12	Matrix-isolation infrared studies of 1:1 molecular complexes containing chloroform (CHCl <sub>3</sub> ) and Lewis bases: Seamless transition from blue-shifted to red-shifted hydrogen bonds. <i>Journal of Chemical Physics</i> , 2012, 137, 014505.	3.0	29
13	Infrared spectra of the (H <sub>2</sub> O)~SO <sub>2</sub> complexes in argon matrices. <i>Journal of Chemical Physics</i> , 2006, 125, 034508.	3.0	27
14	Infrared depletion spectroscopy of aniline dimer cation and aniline-benzene cation clusters. <i>Journal of Molecular Structure</i> , 1997, 413-414, 205-209.	3.6	26
15	The Infrared Spectra of the Diatomic Hydrides AlH and GaH and Intensity Analyses from FTIR Measurements. <i>Journal of Molecular Spectroscopy</i> , 1994, 164, 379-389.	1.2	25
16	N <sub>2</sub> , O <sub>2</sub> , and Air Broadening of NH <sub>3</sub> in $\hat{1}/2$ Band Measured by FTIR Spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 1995, 173, 591-602.	1.2	24
17	Jet-cooled infrared spectra of the formic acid dimer by cavity ring-down spectroscopy: Observation of the C=O stretching region and vibrational analysis of the Fermi-triad system. <i>Chemical Physics Letters</i> , 2007, 447, 202-207.	2.6	24
18	Investigation of the Structure of the Ternary Cluster of Aniline~Water~Tetrahydrofuran and Its Cation by Infrared Depletion Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4211-4215.	2.5	23

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19	Infrared matrix-isolation spectroscopy of trifluoroacetic acid hydrates. <i>Chemical Physics</i> , 2011, 382, 52-57.	1.9	22
20	Infrared depletion spectroscopy of aniline(H <sub>2</sub> O) <sub>n</sub> + (n=2-6) cluster cations. <i>Chemical Physics Letters</i> , 2001, 348, 270-276.	2.6	20
21	Infrared depletion spectroscopy of aniline-toluene cluster: the investigation of the red shifts of the NH <sub>2</sub> stretching vibrations of aniline-aromatic clusters. <i>Chemical Physics</i> , 2004, 297, 133-138.	1.9	19
22	Infrared spectra of formic acid clusters in noble gas matrices. <i>Journal of Molecular Structure</i> , 2015, 1091, 203-209.	3.6	18
23	Proton Chelating Ligands Drive Improved Chemical Separations for Rhodium. <i>Inorganic Chemistry</i> , 2019, 58, 8720-8734.	4.0	18
24	FTIR spectra of the 2 $\nu_{24}$ , $\nu_{24} + \nu_{26}$ and 2 $\nu_{26}$ bands of formaldehyde. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 1397-1412.	0.1	16
25	Microsolvation of aniline-Ar <sub>n</sub> (n=1-21) cluster cations investigated by infrared depletion spectroscopy. <i>Chemical Physics Letters</i> , 2002, 355, 109-115.	2.6	16
26	Observation of methyl iodide clusters in gas phase by infrared cavity ring-down spectroscopy. <i>Chemical Physics</i> , 2003, 286, 337-345.	1.9	16
27	Investigation of the NH- $\pi$ hydrogen bond interaction in the aniline-alkene (C <sub>2</sub> H <sub>4</sub> , C <sub>3</sub> H <sub>6</sub> , C <sub>4</sub> H <sub>8</sub> ) cluster cations by infrared depletion spectroscopy. <i>Chemical Physics</i> , 2003, 288, 69-76.	1.9	16
28	High-Resolution FTIR Spectrum of the CF Radical. <i>Journal of Molecular Spectroscopy</i> , 1994, 165, 88-96.	1.2	15
29	Coherent phase control of the product branching ratio in the photodissociation of dimethylsulfide. <i>Journal of Chemical Physics</i> , 2006, 124, 034304.	3.0	15
30	Observation of the high-resolution infrared spectrum of the $\nu_{24}$ band of ketenimine, CH <sub>2</sub> CNH. <i>Journal of Molecular Spectroscopy</i> , 1990, 140, 177-184.	1.2	14
31	Photodissociation of methyl iodide clusters in the A-band excitation: Photofragmentation excitation spectra of (CH <sub>3</sub> I) <sub>n</sub> by ultraviolet pump-CRD probe measurement. <i>Journal of Chemical Physics</i> , 2003, 119, 5527-5533.	3.0	13
32	Infrared spectroscopy of SO <sub>2</sub> clusters in rare gas matrices revisited: Assignment of species in Ar matrix. <i>Chemical Physics</i> , 2009, 358, 209-218.	1.9	13
33	Infrared spectroscopy of (CHF <sub>2</sub> Cl) <sub>2</sub> and CHF <sub>2</sub> Cl-H <sub>2</sub> O complex in Xe matrix. <i>Chemical Physics</i> , 2010, 369, 82-90.	1.9	13
34	Weak hydrogen bond interactions in the aniline-alkene (CH <sub>2</sub> -...CH(CH <sub>2</sub> ) <sub>n</sub> H, n=0,1,2) clusters studied by infrared depletion spectroscopy. <i>Chemical Physics</i> , 2002, 277, 171-178.	1.9	12
35	Observation of the C-H stretching band of methyl iodide dimer by infrared cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2006, 420, 157-161.	2.6	12
36	Modeling and spectral simulation of matrix-isolated molecules by density functional calculations: A case study on formic acid dimer. <i>Journal of Chemical Physics</i> , 2010, 133, 214502.	3.0	12

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37	Observation of the high-resolution spectrum of the N-H bending vibration of ketenimine CH <sub>2</sub> CNH. Journal of Molecular Spectroscopy, 2010, 264, 100-104.	1.2	12
38	Time-resolved high-resolution FTIR absorption spectroscopy in a pulsed discharge. Chemical Physics Letters, 1993, 206, 73-76.	2.6	11
39	Methyl iodide clusters observed in gas phase by infrared cavity ring-down spectroscopy: The CH <sub>3</sub> bending mode at 8 $\frac{1}{4}$ m. Journal of Chemical Physics, 2006, 124, 054309.	3.0	11
40	Gas phase infrared spectra of SO <sub>2</sub> clusters and quantum chemical calculations of some stable isomers. Chemical Physics Letters, 2007, 436, 335-340.	2.6	11
41	Infrared spectra of the CF <sub>3</sub> I dimer: A concurrent application of matrix-isolation spectroscopy and cavity ring-down spectroscopy. Journal of Chemical Physics, 2006, 124, 234509.	3.0	10
42	Observation of CHF <sub>2</sub> Cl trimer in Xe matrix and calculations of stable isomers by density functional theory. Journal of Molecular Structure, 2012, 1012, 43-49.	3.6	9
43	FTIR Absorption Spectrum of Indium Hydride InH. Journal of Molecular Spectroscopy, 1995, 169, 421-426.	1.2	8
44	High Resolution Infrared Diode Laser Spectroscopy of C <sub>2</sub> F <sub>6</sub> in a Supersonic Jet. Journal of Molecular Spectroscopy, 1996, 178, 40-44.	1.2	8
45	Dipole Moment Function of LiF and LiCl Obtained from the Herman-Wallis Analysis: A Comparative Study with the MBER Data. Journal of Molecular Spectroscopy, 1999, 194, 17-21.	1.2	8
46	Infrared studies of the CH <sub>3</sub> -H <sub>2</sub> O complex and large CH <sub>3</sub> I clusters in Ar matrices. Journal of Molecular Structure, 2013, 1035, 54-60.	3.6	8
47	Formation of SiF <sub>2</sub> in the infrared multiphoton decomposition of Si <sub>2</sub> F <sub>6</sub> and the reactions of SiF <sub>2</sub> with Br <sub>2</sub> , NO <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> . Chemical Physics Letters, 1995, 232, 561-566.	2.6	7
48	The evidence of the mode selectivity of the infrared predissociation reaction of the hydrogen bonds in the aniline-water-pyrrole cluster cation. Chemical Physics Letters, 2001, 346, 407-412.	2.6	7
49	Density functional theory calculations of stable isomers for trifluoroacetic acid (TFA)-(H <sub>2</sub> O) <sub>4</sub> complexes. Computational and Theoretical Chemistry, 2013, 1016, 48-53.	2.5	7
50	Infrared predissociation reaction of the hydrogen bonds in the ternary cluster cation of aniline-water-benzene+. Chemical Physics Letters, 2001, 344, 85-91.	2.6	6
51	The FTIR Absorption Spectrum of the Fundamental Band of the AsO Radical. Journal of Molecular Spectroscopy, 1995, 174, 417-424.	1.2	5
52	Torsion-rotation coupling and the determination of the torsional potential energy function of HSOH. Physical Chemistry Chemical Physics, 2010, 12, 11133.	2.8	5
53	Modeling and spectral simulation of formic acid dimer in Ar matrix using ONIOM calculations. Computational and Theoretical Chemistry, 2019, 1161, 18-25.	2.5	5
54	Infrared depletion spectroscopy of aniline-(CH <sub>3</sub> ) <sub>2</sub> O cluster and corresponding cluster cation. Journal of Molecular Structure, 2003, 649, 105-110.	3.6	4

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55	Coherent laser control of the photoexcitation of methyl iodide clusters. <i>Chemical Physics Letters</i> , 2004, 383, 240-244.	2.6	4
56	Stable isomers for trifluoroacetic acid (TFA) pentahydrates obtained from density functional calculations. <i>Vibrational Spectroscopy</i> , 2014, 71, 57-61.	2.2	4
57	Infrared and density functional theory studies of formic acid hydrate clusters in noble gas matrices. <i>Journal of Molecular Structure</i> , 2016, 1118, 161-166.	3.6	4
58	Infrared spectroscopy of isoprene in noble gas matrices. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 117-123.	1.2	4
59	Matrix-isolation infrared study of acetaldehyde: Host-dependent vibrational features. <i>Journal of Molecular Spectroscopy</i> , 2022, 384, 111593.	1.2	4
60	Structure of Tetraammonium Octamolybdois(diaquacoiprate(II)) Hexahydrate. <i>Chemistry Letters</i> , 1988, 17, 467-468.	1.3	3
61	The Diode Laser Infrared Spectrum of the Arsenic Monoxide Radical in Its Ground Electronic State (2). <i>Journal of Molecular Spectroscopy</i> , 1995, 170, 152-157.	1.2	3
62	$^{13}\text{C}$ -substituted C <sub>60</sub> predictions of the rotational spectra. <i>Molecular Astrophysics</i> , 2017, 6, 9-15.	1.6	3
63	Infrared and density functional theory studies of isoprene-water complexes in noble gas matrices. <i>Journal of Molecular Spectroscopy</i> , 2017, 341, 27-34.	1.2	3
64	Infrared and quantum chemical studies of isoprene-methanol complexes in noble gas matrices. <i>Journal of Molecular Spectroscopy</i> , 2019, 362, 90-95.	1.2	3
65	Dunham potential coefficients of iodine fluoride. <i>Journal of Molecular Spectroscopy</i> , 1990, 142, 191-194.	1.2	2
66	GSRB rotation and rovibration intensities for: The bent HOCl molecule, and for: Quantum monodromy in NCNCS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107188.	2.3	2
67	Observation of Light-Induced Reactions of Olefin-Ozone Complexes in Cryogenic Matrices Using Fourier-Transform Infrared Spectroscopy. <i>Photochem</i> , 2022, 2, 150-164.	2.2	2
68	Hybrid calculation of the partition functions of prolate top molecules: Using HOCl as the test case. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107176.	2.3	1
69	Absorption line profile measurement of rovibrational transition of acetylene molecule using a fiber comb spectrometer. , 2008, , .		0
70	Continuous dispersion and size control of gas-phase fullerene C60 particles using a simple method. <i>Micro and Nano Letters</i> , 2010, 5, 193.	1.3	0