Fumiyuki Ito

List of Publications by Year
in descending order

70	1,053	394421 19	501196 28
papers	citations	h-index	g-index

71	71	71	817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Matrix-isolation infrared study of acetaldehyde: Host-dependent vibrational features. Journal of Molecular Spectroscopy, 2022, 384, 111593.	1.2	4
2	Observation of Light-Induced Reactions of Olefinâ€“Ozone Complexes in Cryogenic Matrices Using Fourier-Transform Infrared Spectroscopy. Photochem, 2022, 2, 150-164.	2.2	2
3	Hybrid calculation of the partition functions of prolate top molecules: Using HOCl as the test case. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107176.	2.3	1
4	GSRB rotation and rovibration intensities for: The bent HOCl molecule, and for: Quantum monodromy in NCNCS. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107188.	2.3	2
5	Infrared and quantum chemical studies of isoprene-methanol complexes in noble gas matrices. Journal of Molecular Spectroscopy, 2019, 362, 90-95.	1.2	3
6	Proton Chelating Ligands Drive Improved Chemical Separations for Rhodium. Inorganic Chemistry, 2019, 58, 8720-8734.	4.0	18
7	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
8	Infrared spectroscopy of isoprene in noble gas matrices. Journal of Molecular Spectroscopy, 2018, 348, 117-123.	1.2	4
9	13C-substituted C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow /><mml:mrow><mml:mn>60</mml:mn></mml:mrow><mml:mo>+</mml:mo></mml:msubsup></mml:math>: Predictions of the rotational spectra. Molecular Astrophysics, 2017, 6, 9-15.	1.6	3
10	Infrared and density functional theory studies of isoprene-water complexes in noble gas matrices. Journal of Molecular Spectroscopy, 2017, 341, 27-34.	1.2	3
11	Infrared and density functional theory studies of formic acid hydrate clusters in noble gas matrices. Journal of Molecular Structure, 2016, 1118, 161-166.	3.6	4
12	Infrared spectra of formic acid clusters in noble gas matrices. Journal of Molecular Structure, 2015, 1091, 203-209.	3.6	18
13	Stable isomers for trifluoroacetic acid (TFA) pentahydrates obtained from density functional calculations. Vibrational Spectroscopy, 2014, 71, 57-61.	2.2	4
14	Infrared studies of the CH3Iâ€“H2O complex and large CH3I clusters in Ar matrices. Journal of Molecular Structure, 2013, 1035, 54-60.	3.6	8
15	Density functional theory calculations of stable isomers for trifluoroacetic acid (TFA)â€“(H2O)4 complexes. Computational and Theoretical Chemistry, 2013, 1016, 48-53.	2.5	7
16	Matrix-isolation infrared studies of 1:1 molecular complexes containing chloroform (CHCl3) and Lewis bases: Seamless transition from blue-shifted to red-shifted hydrogen bonds. Journal of Chemical Physics, 2012, 137, 014505.	3.0	29
17	Observation of CHF2Cl trimer in Xe matrix and calculations of stable isomers by density functional theory. Journal of Molecular Structure, 2012, 1012, 43-49.	3.6	9
18	Infrared matrix-isolation spectroscopy of trifluoroacetic acid hydrates. Chemical Physics, 2011, 382, 52-57.	1.9	22

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19	Modeling and spectral simulation of matrix-isolated molecules by density functional calculations: A case study on formic acid dimer. Journal of Chemical Physics, 2010, 133, 214502.	3.0	12
20	Continuous dispersion and size control of gas-phase fullerene C60 particles using a simple method. Micro and Nano Letters, 2010, 5, 193.	1.3	0
21	Observation of the high-resolution spectrum of the Nâ€“H bending vibration of ketenimine CH2CNH. Journal of Molecular Spectroscopy, 2010, 264, 100-104.	1.2	12
22	Infrared spectroscopy of (CHF2Cl)2 and CHF2Clâ‹¯H2O complex in Xe matrix. Chemical Physics, 2010, 369, 82-90.	1.9	13
23	Torsionâ€“rotation coupling and the determination of the torsional potential energy function of HSOH. Physical Chemistry Chemical Physics, 2010, 12, 11133.	2.8	5
24	Infrared spectroscopy of SO2 clusters in rare gas matrices revisited: Assignment of species in Ar matrix. Chemical Physics, 2009, 358, 209-218.	1.9	13
25	High precision line profile measurements on 13C acetylene using a near infrared frequency comb spectrometer. Journal of Molecular Spectroscopy, 2008, 249, 95-99.	1.2	35
26	Absorption line profile measurement of rovibrational transition of acetylene molecule using a fiber comb spectrometer. , 2008, , .		0
27	Infrared spectra of (HCOOH)2 and (DCOOH)2 in rare gas matrices: A comparative study with gas phase spectra. Journal of Chemical Physics, 2008, 128, 114310.	3.0	38
28	Gas phase infrared spectra of SO2 clusters and quantum chemical calculations of some stable isomers. Chemical Physics Letters, 2007, 436, 335-340.	2.6	11
29	Jet-cooled infrared spectra of the formic acid dimer by cavity ring-down spectroscopy: Observation of the Câ€“O stretching region and vibrational analysis of the Fermi-triad system. Chemical Physics Letters, 2007, 447, 202-207.	2.6	24
30	Observation of the Câ€“H stretching band of methyl iodide dimer by infrared cavity ring-down spectroscopy. Chemical Physics Letters, 2006, 420, 157-161.	2.6	12
31	Infrared spectra of the CF3I dimer: A concurrent application of matrix-isolation spectroscopy and cavity ring-down spectroscopy. Journal of Chemical Physics, 2006, 124, 234509.	3.0	10
32	Coherent phase control of the product branching ratio in the photodissociation of dimethylsulfide. Journal of Chemical Physics, 2006, 124, 034304.	3.0	15
33	Methyl iodide clusters observed in gas phase by infrared cavity ring-down spectroscopy: The CH3 bending mode at 8Î¼m. Journal of Chemical Physics, 2006, 124, 054309.	3.0	11
34	Infrared spectra of the (H2O)nâ€“SO2 complexes in argon matrices. Journal of Chemical Physics, 2006, 125, 034508.	3.0	27
35	Phase-sensitive molecular ionization induced by a phase-controlled two-color laser field in methyl halides. Physical Review A, 2006, 74, .	2.5	32
36	Structures of methyl halide dimers in supersonic jets by matrix-isolation infrared spectroscopy and quantum chemical calculations. Journal of Molecular Structure, 2004, 690, 9-16.	3.6	31

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37	Infrared depletion spectroscopy of anilineâ€“toluene cluster: the investigation of the red shifts of the NH2 stretching vibrations of anilineâ€“aromatic clusters. Chemical Physics, 2004, 297, 133-138.	1.9	19
38	Coherent laser control of the photoexcitation of methyl iodide clusters. Chemical Physics Letters, 2004, 383, 240-244.	2.6	4
39	Infrared depletion spectroscopy of anilineâ€“(CH3)2O cluster and corresponding cluster cation. Journal of Molecular Structure, 2003, 649, 105-110.	3.6	4
40	Observation of methyl iodide clusters in gas phase by infrared cavity ring-down spectroscopy. Chemical Physics, 2003, 286, 337-345.	1.9	16
41	Investigation of the NH-Ï€ hydrogen bond interaction in the anilineâ€“alkene (C2H4,C3H6,C4H8) cluster cations by infrared depletion spectroscopy. Chemical Physics, 2003, 288, 69-76.	1.9	16
42	Photodissociation of methyl iodide clusters in the A-band excitation: Photofragmentation excitation spectra of (CH3I)n by ultraviolet pump-CRD probe measurement. Journal of Chemical Physics, 2003, 119, 5527-5533.	3.0	13
43	Weak hydrogen bond interactions in the anilineâ€“alkene (CH2˜...CH(CH2)nH, n=0,1,2) clusters studied by infrared depletion spectroscopy. Chemical Physics, 2002, 277, 171-178.	1.9	12
44	Jet-cooled infrared spectra of the formic acid dimer by cavity ring-down spectroscopy: observation of the Oî—¸H stretching region. Chemical Physics, 2002, 277, 163-169.	1.9	55
45	Microsolvation of aniline+â€“Arn (n=1â€“21) cluster cations investigated by infrared depletion spectroscopy. Chemical Physics Letters, 2002, 355, 109-115.	2.6	16
46	Investigation of the Structure of the Ternary Cluster of Anilineâ‹¯Waterâ‹¯Tetrahydrofuran and Its Cation by Infrared Depletion Spectroscopy. Journal of Physical Chemistry A, 2001, 105, 4211-4215.	2.5	23
47	Infrared predissociation reaction of the hydrogen bonds in the ternary cluster cation of anilineâ€“waterâ€“benzene+. Chemical Physics Letters, 2001, 344, 85-91.	2.6	6
48	The evidence of the mode selectivity of the infrared predissociation reaction of the hydrogen bonds in the anilineâ€“waterâ€“pyrrole cluster cation. Chemical Physics Letters, 2001, 346, 407-412.	2.6	7
49	Infrared depletion spectroscopy of aniline(H2O)n+ (n=2â€“6) cluster cations. Chemical Physics Letters, 2001, 348, 270-276.	2.6	20
50	Isomeric structures of CH3I dimers in a supersonic jet studied by matrix-isolation infrared spectroscopy and ab initio calculation. Chemical Physics Letters, 2001, 343, 185-191.	2.6	37
51	A jet-cooled infrared spectrum of the formic acid dimer by cavity ring-down spectroscopy. Chemical Physics Letters, 2000, 318, 571-577.	2.6	45
52	Dipole Moment Function of LiF and LiCl Obtained from the Hermanâ€“Wallis Analysis: A Comparative Study with the MBER Data. Journal of Molecular Spectroscopy, 1999, 194, 17-21.	1.2	8
53	Investigations on the Hydrogen Bond Interaction in the Anilineâ‹¯Furan Complex and Its Cation by Infrared Depletion Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 5440-5445.	2.5	34
54	Investigation of the Nâ‹¯H Stretching Vibrations of the Anilineâ‹¯Pyrrole Binary Complex and Its Cation by Infrared Depletion Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 4788-4793.	2.5	31

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55	Infrared depletion spectroscopy of aniline dimer cation and aniline-benzene cation clusters. Journal of Molecular Structure, 1997, 413-414, 205-209.	3.6	26
56	Infrared depletion spectroscopy of the aniline-H2O+ cluster cation. Chemical Physics Letters, 1997, 279, 309-314.	2.6	35
57	High Resolution Infrared Diode Laser Spectroscopy of C2F6in a Supersonic Jet. Journal of Molecular Spectroscopy, 1996, 178, 40-44.	1.2	8
58	The FTIR Absorption Spectrum of the Fundamental Band of the AsO Radical. Journal of Molecular Spectroscopy, 1995, 174, 417-424.	1.2	5
59	FTIR Absorption Spectrum of Indium Hydride InH. Journal of Molecular Spectroscopy, 1995, 169, 421-426.	1.2	8
60	The Diode Laser Infrared Spectrum of the Arsenic Monoxide Radical in Its Ground Electronic State (2Î). Journal of Molecular Spectroscopy, 1995, 170, 152-157.	1.2	3
61	N2, O2, and Air Broadening of NH3 in Î½2 Band Measured by FTIR Spectroscopy. Journal of Molecular Spectroscopy, 1995, 173, 591-602.	1.2	24
62	Formation of SiF2 in the infrared multiphoton decomposition of Si2F6 and the reactions of SiF2 with Br2, NO2 and C2H4. Chemical Physics Letters, 1995, 232, 561-566.	2.6	7
63	The Infrared Spectra of the Diatomic Hydrides AlH and GaH and Intensity Analyses from FTIR Measurements. Journal of Molecular Spectroscopy, 1994, 164, 379-389.	1.2	25
64	High-Resolution FTIR Spectrum of the CF Radical. Journal of Molecular Spectroscopy, 1994, 165, 88-96.	1.2	15
65	FTIR spectra of the 2Î½4, Î½4 + Î½6 and 2Î½6 bands of formaldehyde. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1397-1412.	0.1	16
66	Time-resolved high-resolution FTIR absorption spectroscopy in a pulsed discharge. Chemical Physics Letters, 1993, 206, 73-76.	2.6	11
67	Dunham potential coefficients of Iodine fluoride. Journal of Molecular Spectroscopy, 1990, 142, 191-194.	1.2	2
68	Observation of the high-resolution infrared spectrum of the Î½4 band of ketenimine, CH2CNH. Journal of Molecular Spectroscopy, 1990, 140, 177-184.	1.2	14
69	Vibrational and rotational energy distributions of CH3and IF formed in the reactions of F atoms with CH4and CH3I. Journal of Chemical Physics, 1990, 92, 5328-5337.	3.0	32
70	Structure of Tetraamraonium Octamolybdobis(diaquacoiprate(II)) Hexahydrate. Chemistry Letters, 1988, 17, 467-468.	1.3	3