Zbigniew Kisiel

List of Publications by Year in Descending Order

161 papers	4,981 citations	37 h-index	64 g-index
163 ext. papers	5,557 ext. citations	3.5 avg, IF	5.41 L-index

#	Paper	IF	Citations
161	The eight lowest-energy vibrational states of benzonitrile: analysis of Coriolis and Darling-Dennison couplings by millimeter-wave and far-infrared spectroscopy. *Journal of Molecular Spectroscopy*, **2022**, 383, 111568	1.3	3
160	Further rotational spectroscopy of phenol: Sextic centrifugal distortion and vibrational satellites. *Journal of Molecular Spectroscopy*, **2022**, 386, 111630	1.3	1
159	Improved centrifugal and hyperfine analysis of ND2H and NH2D and its application to the spectral line survey of L1544. *Journal of Molecular Spectroscopy*, **2021**, 377, 111431	1.3	2
158	Hydrogen versus tetrel bonds in complexes of 3-oxetanone with water and formaldehyde. *Physical Chemistry Chemical Physics*, **2021**, 23, 7295-7301	3.6	2
157	Rotational spectroscopy and precise molecular structure of 1,2-dichlorobenzene. *Journal of Molecular Spectroscopy*, **2020**, 374, 111380	1.3	2
156	Water Triggers Hydrogen-Bond-Network Reshaping in the Glycoaldehyde Dimer. *Angewandte Chemie - International Edition*, **2020**, 59, 8401-8405	16.4	3
155	Water Triggers Hydrogen-Bond-Network Reshaping in the Glycoaldehyde Dimer. *Angewandte Chemie*, **2020**, 132, 8479-8483	3.6	0
154	Detection of Cyclopropenylidene on Titan with ALMA. *Astronomical Journal*, **2020**, 160, 205	4.9	13
153	Detection of CH3C3N in Titan□ Atmosphere. *Astrophysical Journal Letters*, **2020**, 903, L22	7.9	6
152	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea (Corrigendum). *Astronomy and Astrophysics*, **2020**, 637, C4	5.1	1
151	Microsolvation of ethyl carbamate conformers: effect of carrier gas on the formation of complexes. *Physical Chemistry Chemical Physics*, **2020**, 22, 18351-18360	3.6	4
150	Propionitrile in the two lowest excited vibrational states in the laboratory and on Titan. *Journal of Molecular Spectroscopy*, **2020**, 372, 111324	1.3	7
149	Structure of Butyl Carbamate and of Its Water Complex in the Gas Phase. *Journal of Physical Chemistry A*, **2019**, 123, 7983-7990	2.8	3
148	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea. *Astronomy and Astrophysics*, **2019**, 628, A10	5.1	63
147	Bond Length Alternation Observed Experimentally: The Case of 1H-Indazole. *Chemistry - A European Journal*, **2019**, 25, 10172-10178	4.8	4
146	Sextic centrifugal distortion in fluorobenzene and phenylacetylene from cm-wave rotational spectroscopy. *Journal of Molecular Spectroscopy*, **2019**, 359, 16-21	1.3	10
145	Measurement of CH3D on Titan at Submillimeter Wavelengths. *Astronomical Journal*, **2019**, 157, 219	4.9	6

144	A Comprehensive Spectral Rotational Analysis of the Interstellar Methyl Isocyanate CH3NCO. *Astrophysical Journal, Supplement Series*, **2019**, 245, 31	8	4
143	Exploring the Rich Potential Energy Surface of (HO) and Its Physical Implications. *Journal of Chemical Theory and Computation*, **2018**, 14, 1141-1153	6.4	15
142	The 103–360 GHz rotational spectrum of benzonitrile, the first interstellar benzene derivative detected by radioastronomy. *Journal of Molecular Spectroscopy*, **2018**, 351, 39-48	1.3	16
141	Rotational spectroscopy update for the newly identified atmospheric ozone depleter CF3CCl3. *Journal of Molecular Spectroscopy*, **2018**, 352, 1-9	1.3	2
140	Observation of 36ArH37Cl, 38ArH35Cl and 38ArH37Cl in natural abundance using CP-FTMW spectroscopy. *Journal of Molecular Spectroscopy*, **2018**, 344, 34-38	1.3	5
139	Fast analytical evaluation of intermolecular electrostatic interaction energies using the pseudoatom representation of the electron density. I. The Löwdin ϕ function method. *Acta Crystallographica Section A: Foundations and Advances*, **2018**, 74, 524-536	1.7	4
138	Interferometric Imaging of Titan's HC 3 N, H 13 CCCN, and HCCC 15 N. *Astrophysical Journal Letters*, **2018**, 859, L15	7.9	15
137	THz Molecular Spectroscopy **2018**, 387-402		
136	Glycinamide, a Glycine Precursor, Caught in the Gas Phase: A Laser-ablation Jet-cooled Rotational Study. *Astrophysical Journal*, **2018**, 861, 70	4.7	7
135	The complete molecular geometry and electric dipole moment of salicyl aldehyde from rotational spectroscopy. *Journal of Molecular Spectroscopy*, **2017**, 335, 3-12	1.3	7
134	Rotational spectra of hydrazoic acid. *Journal of Molecular Spectroscopy*, **2017**, 337, 27-31	1.3	3
133	Corannulene and its complex with water: a tiny cup of water. *Physical Chemistry Chemical Physics*, **2017**, 19, 14214-14223	3.6	30
132	High-J rotational spectrum of toluene in |m| ? 3 torsional states. *Journal of Molecular Spectroscopy*, **2017**, 339, 31-39	1.3	9
131	Comprehensive rotational spectroscopy of the newly identified atmospheric ozone depleter CF3CH2Cl. *Journal of Molecular Spectroscopy*, **2017**, 337, 37-45	1.3	3
130	ALMA detection and astrobiological potential of vinyl cyanide on Titan. *Science Advances*, **2017**, 3, e1700022	14.3	38
129	Deep K-band Observations of TMC-1 with the Green Bank Telescope: Detection of HC7O, Nondetection of HC11N, and a Search for New Organic Molecules. *Astrophysical Journal*, **2017**, 850, 187	4.7	24
128	Capturing the Elusive Water Trimer from the Stepwise Growth of Water on the Surface of the Polycyclic Aromatic Hydrocarbon Acenaphthene. *Journal of Physical Chemistry Letters*, **2017**, 8, 5744-5750	6.4	30
127	Mapping Vinyl Cyanide and Other Nitriles in Titan's Atmosphere Using ALMA. *Astronomical Journal*, **2017**, 154, 206	4.9	16

126	Identification of Trace 2-Chloropropene with a New Chirped Pulse Microwave Spectrometer. *Acta Physica Polonica A*, **2017**, 131, 311-317	0.6	8
125	Millimetre wave rotational spectrum of glycolic acid. *Journal of Molecular Spectroscopy*, **2016**, 321, 13-22	1.3	7
124	Concerted hydrogen-bond breaking by quantum tunneling in the water hexamer prism. *Science*, **2016**, 351, 1310-3	33.3	182
123	Wetting Camphor: Multi-Isotopic Substitution Identifies the Complementary Roles of Hydrogen Bonding and Dispersive Forces. *Journal of Physical Chemistry Letters*, **2016**, 7, 154-60	6.4	54
122	A rigorous detection of interstellar CHNCO: An important missing species in astrochemical networks. *Astronomy and Astrophysics*, **2016**, 587,	5.1	70
121	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. *Astrophysical Journal Letters*, **2015**, 800, L14	7.9	59
120	Rotation-vibration interactions in the spectra of polycyclic aromatic hydrocarbons: Quinoline as a test-case species. *Journal of Chemical Physics*, **2015**, 142, 104310	3.9	13
119	Lowest vibrational states of acrylonitrile from microwave and synchrotron radiation spectra. *Journal of Molecular Spectroscopy*, **2015**, 315, 83-91	1.3	13
118	Comprehensive analysis of the rotational spectrum of 2,2-dichloropropane. *Journal of Molecular Spectroscopy*, **2015**, 308-309, 20-27	1.3	8
117	Hydrogen bond cooperativity and the three-dimensional structures of water nonamers and decamers. *Angewandte Chemie - International Edition*, **2014**, 53, 14368-72	16.4	82
116	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. *Astronomy and Astrophysics*, **2014**, 572, A44	5.1	48
115	Hydrogen Bond Cooperativity and the Three-Dimensional Structures of Water Nonamers and Decamers. *Angewandte Chemie*, **2014**, 126, 14596-14600	3.6	7
114	Interactions between freons: a rotational study of CH□□CHCl□ *Chemistry - an Asian Journal*, **2014**, 9, 1032-8	4.5	16
113	Far-infrared spectrum of S(CN)2 measured with synchrotron radiation: global analysis of the available high-resolution spectroscopic data. *Journal of Physical Chemistry A*, **2013**, 117, 13815-24	2.8	9
112	Broadband Fourier transform rotational spectroscopy for structure determination: The water heptamer. *Chemical Physics Letters*, **2013**, 571, 1-15	2.5	166
111	Rotation and rotation-vibration spectroscopy of the 0+-0- inversion doublet in deuterated cyanamide. *Journal of Physical Chemistry A*, **2013**, 117, 9889-98	2.8	8
110	Structures of cage, prism, and book isomers of water hexamer from broadband rotational spectroscopy. *Science*, **2012**, 336, 897-901	33.3	318
109	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. *Journal of Molecular Spectroscopy*, **2012**, 280, 134-144	1.3	67

108	Terahertz spectroscopy of isotopic acrylonitrile. *Journal of Molecular Structure*, **2011**, 1006, 20-27	3.4	16
107	Rotational spectroscopy of iodobenzene and iodobenzene–neon with a direct digital 28 GHz chirped-pulse Fourier transform microwave spectrometer. *Journal of Molecular Spectroscopy*, **2011**, 269, 21-29	1.3	46
106	Electric dipole moments of acrylonitrile and of propionitrile measured in supersonic expansion. *Journal of Molecular Spectroscopy*, **2011**, 270, 83-87	1.3	17
105	Analysis of the mm- and submm-wave rotational spectra of isotopic cyanamide: New isotopologues and molecular geometry. *Journal of Molecular Spectroscopy*, **2011**, 267, 144-149	1.3	13
104	Structure and properties of the (HCl)2H2O cluster observed by chirped-pulse Fourier transform microwave spectroscopy. *Physical Chemistry Chemical Physics*, **2011**, 13, 13912-9	3.6	10
103	Assignment and analysis of the rotational spectra of the v7=1, v12=1 and v13=1 vibrational states of CH3CCCCH. *Journal of Molecular Spectroscopy*, **2011**, 267, 118-122	1.3	
102	Determination of precise relative energies of conformers of n-propanol by rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2010**, 12, 8329-39	3.6	43
101	The pure rotational spectrum of Difluoroiodomethane, CHF2I. *Journal of Molecular Spectroscopy*, **2010**, 261, 82-86	1.3	7
100	The millimetre-wave rotational spectrum of phenylacetylene. *Journal of Molecular Spectroscopy*, **2010**, 262, 82-88	1.3	25
99	A new torsion–rotation fitting program for molecules with a sixfold barrier: Application to the microwave spectrum of toluene. *Journal of Molecular Spectroscopy*, **2010**, 259, 26-38	1.3	82
98	Analysis of the rotational spectrum of pyruvonitrile up to 324 GHz. *Journal of Molecular Spectroscopy*, **2010**, 260, 57-65	1.3	31
97	The rotational spectrum of chlorine nitrate (ClONO2) in the four lowest n9 polyads. *Journal of Molecular Spectroscopy*, **2009**, 254, 78-86	1.3	20
96	Assignment and analysis of the rotational spectrum of bromoform enabled by broadband FTMW spectroscopy. *Journal of Molecular Spectroscopy*, **2009**, 257, 177-186	1.3	15
95	The rotational spectrum of acrylonitrile up to 1.67THz. *Journal of Molecular Spectroscopy*, **2009**, 258, 26-34	1.3	33
94	Influence of the geometry of a hydrogen bond on conformational stability: a theoretical and experimental study of ethyl carbamate. *Physical Chemistry Chemical Physics*, **2009**, 11, 1719-28	3.6	17
93	Submillimetre-wave spectrum, 14N-hyperfine structure, and dipole moment of cyclopropyl cyanide. *Journal of Molecular Spectroscopy*, **2008**, 251, 138-144	1.3	3
92	Strong Coriolis coupling between and states of studied by millimeter-wave spectroscopy. *Journal of Molecular Spectroscopy*, **2008**, 251, 235-240	1.3	7
91	The millimeter wave rotational spectrum of pyruvic acid. *Journal of Molecular Spectroscopy*, **2007**, 241, 220-229	1.3	32

90	The rotational spectrum of chlorine nitrate (ClONO2): The 5/55 dyad. *Journal of Molecular Spectroscopy*, **2007**, 243, 1-9	1.3	12
89	The millimeter-wave spectrum of chlorine nitrate (ClONO2): The 6 vibrational state. *Journal of Molecular Spectroscopy*, **2007**, 244, 113-116	1.3	8
88	Comprehensive analysis of the FASSST rotational spectrum of S(CN)2. *Journal of Molecular Spectroscopy*, **2007**, 246, 39-56	1.3	23
87	New measurements and global analysis of rotational spectra of Cl-, Br-, and I-benzene: Spectroscopic constants and electric dipole moments. *Journal of Molecular Spectroscopy*, **2007**, 246, 228-232	1.3	22
86	Nuclear quadrupole coupling in chloroform and calibration of ab initio calculations. *Journal of Molecular Spectroscopy*, **2006**, 238, 72-78	1.3	11
85	Assignment and analysis of the rotational spectrum of 3-chlorobenzonitrile. *Journal of Molecular Spectroscopy*, **2006**, 239, 88-93	1.3	4
84	The rotational spectra, electric dipole moments and molecular structures of anisole and benzaldehyde. *Physical Chemistry Chemical Physics*, **2005**, 7, 1708-15	3.6	64
83	Formation and photostability of N-heterocycles in space. *Astronomy and Astrophysics*, **2005**, 433, 583-590	5.1	64
82	Astronomical searches for nitrogen heterocycles. *Advances in Space Research*, **2005**, 36, 137-145	2.4	72
81	The millimeter-wave rotational spectrum of fluorobenzene. *Journal of Molecular Spectroscopy*, **2005**, 232, 47-54	1.3	35
80	Rotational spectrum of trans–trans diethyl ether in the ground and three excited vibrational states. *Journal of Molecular Spectroscopy*, **2005**, 233, 231-243	1.3	202
79	The millimeter wave rotational spectrum of lactic acid. *Journal of Molecular Spectroscopy*, **2005**, 234, 106-112	1.3	19
78	Ground state rotational spectrum of toluene. *Journal of Molecular Spectroscopy*, **2004**, 227, 109-113	1.3	20
77	The millimeter- and submillimeter-wave spectrum of the trans–gauche conformer of diethyl ether. *Journal of Molecular Spectroscopy*, **2004**, 228, 314-328	1.3	72
76	Searches for interstellar molecules of potential prebiotic importance. *Advances in Space Research*, **2004**, 33, 31-39	2.4	50
75	The anomeric effect in 1,3-benzodioxole: additional evidence from the rotational, vibration–rotation and rovibronic spectra. *Physical Chemistry Chemical Physics*, **2004**, 6, 5469-5475	3.6	13
74	Interstellar Glycine. *Astrophysical Journal*, **2003**, 593, 848-867	4.7	303
73	The Millimeter- and Submillimeter-Wave Spectrum of the trans-trans Conformer of Diethyl Ether (C 2 H 5 OC 2 H 5). *Astrophysical Journal, Supplement Series*, **2003**, 148, 593-597	8	18

72	The structure and electric dipole moment of camphor determined by rotational spectroscopy. *Physical Chemistry Chemical Physics*, **2003**, 5, 820-826	3.6	34
71	Rotational spectra of quinoline and of isoquinoline: spectroscopic constants and electric dipole moments. *Journal of Molecular Spectroscopy*, **2003**, 217, 115-122	1.3	57
70	Least-squares mass-dependence molecular structures for selected weakly bound intermolecular clusters. *Journal of Molecular Spectroscopy*, **2003**, 218, 58-67	1.3	278
69	A search for interstellar pyrimidine. *Monthly Notices of the Royal Astronomical Society*, **2003**, 345, 650-656	4.3	62
68	Structure and properties of the weakly bound cyclic trimer (H2O)2HBr observed by rotational spectroscopy. *Journal of Chemical Physics*, **2003**, 119, 5907-5917	3.9	28
67	Free jet rotational spectrum of propylene oxide–krypton and modelling and ab initio calculations for propylene oxide–rare gas dimers. *Physical Chemistry Chemical Physics*, **2003**, 5, 1359-1364	3.6	21
66	Bridgehead distortion at the C1 position of 1-fluoroadamantane revealed by rotational spectroscopy and ab initio calculations. *Journal of Molecular Structure*, **2002**, 612, 83-91	3.4	6
65	The observation and characterization by rotational spectroscopy of the weakly bound trimer Ar2HBr. *Journal of Chemical Physics*, **2002**, 117, 8248-8255	3.9	13
64	Structure and properties of the weakly bound trimer (H2O)2HCl. Theoretical predictions and comparison with high-resolution rotational spectroscopy. *Chemical Physics*, **2001**, 271, 267-282	2.3	17
63	The Gas-Phase Electric Dipole Moments of the Symmetric Top Tertiary Butyl Molecules (t)BuX, X=F, Cl, Br, I, CN, and NC. *Journal of Molecular Spectroscopy*, **2001**, 208, 113-120	1.3	34
62	High-Resolution Infrared and Millimeter-Wave Study of D(3)SiF: The Ground and v(3)=1 States of the (29)Si and (30)Si Species, and the v(3)=v(6)=1 and v(3)=2 States of D(3) (28)SiF. *Journal of Molecular Spectroscopy*, **2001**, 208, 101-109	1.3	7
61	Pre-reactive complexes in mixtures of water vapour with halogens: characterisation of H2O...ClF and H2O...F2 by a combination of rotational spectroscopy and ab initio calculations. *Chemistry - A European Journal*, **2001**, 7, 2295-305	4.8	53
60	The experimental electric dipole moments of the ArnHX van der Waals clusters. *Chemical Physics Letters*, **2001**, 333, 381-386	2.5	10
59	Pre-reactive Complexes in Mixtures of Water Vapour with Halogens: Characterisation of H2O???ClF and H2O???F2 by a Combination of Rotational Spectroscopy and Ab initio Calculations **2001**, 7, 2295		1
58	The angleICI Bending Satellites in the Millimeter-Wave Rotational Spectra of CH(2)I(2) and CD(2)I(2). *Journal of Molecular Spectroscopy*, **2000**, 199, 5-12	1.3	16
57	Electric dipole moments of the cyclic trimers (H2O)2HCl and (H2O)2HBr from Stark effects in their rotational spectra. *Chemical Physics Letters*, **2000**, 325, 523-530	2.5	71
56	Rotational Spectra of the Less Common Isotopomers, Electric Dipole Moment and the Double Minimum Inversion Potential of H2O▪HCl. *Journal of Physical Chemistry A*, **2000**, 104, 6970-6978	2.8	78
55	Structure and properties of the weakly bound trimer (H2O)2HCl observed by rotational spectroscopy. *Journal of Chemical Physics*, **2000**, 112, 5767-5776	3.9	55

54	Investigation of the Rotational Spectrum of Pyrimidine from 3 to 337 GHz: Molecular Structure, Nuclear Quadrupole Coupling, and Vibrational Satellites. *Journal of Molecular Spectroscopy*, **1999**, 195, 332-339	1.3	45
53	Rotational spectrum and spectroscopic constants of 36Ar?H35Cl and 40Ar?HCl. *Chemical Physics Letters*, **1998**, 291, 190-196	2.5	14
52	Nuclear Quadrupole Coupling in 1,1,1-Trichloroethane: Inertial and Principal Tensors for 35Cl and 37Cl. *Journal of Molecular Spectroscopy*, **1998**, 189, 228-34	1.3	11
51	Rotational Spectrum of CD2I2. *Journal of Molecular Spectroscopy*, **1998**, 189, 283-90	1.3	19
50	The Coriolis Interaction between the v2 = 1 and v3 = 2 States of Nitrosyl Bromide: Anomalous Quadrupole Patterns and Interstate Transitions in the Millimeter-Wave Spectrum. *Journal of Molecular Spectroscopy*, **1998**, 191, 316-325	1.3	4
49	The Hydrogen Bond between Water and Aromatic Bases of Biological Interest: An Experimental and Theoretical Study of the 1:1 Complex of Pyrimidine with Water. *Journal of the American Chemical Society*, **1998**, 120, 11504-11509	16.4	88
48	Nuclear quadrupole coupling in Cl2C=CHCl and Cl2C=CH2: Evidence for systematic differences in orientations between internuclear and field gradient axes for terminal quadrupolar nuclei. *Journal of Chemical Physics*, **1998**, 109, 10263-10272	3.9	40
47	Millimeter-Wave Rotational Spectra of the37Cl Species of 1,1,1-Trichloroethane. *Journal of Molecular Spectroscopy*, **1997**, 181, 48-55	1.3	16
46	The Millimeter-Wave Rotational Spectrum of CCl3CN in Excited Vibrational States. *Journal of Molecular Spectroscopy*, **1997**, 183, 168-175	1.3	2
45	Spectroscopic Constants for HCFC-22 from Rotational and High-Resolution Vibration□Rotation Spectra: CHF237Cl and13CHF235Cl Isotopomers. *Journal of Molecular Spectroscopy*, **1997**, 184, 150-155	1.3	16
44	Nuclear Quadrupole Coupling in 2-Chloroacrylonitrile: Inertial and Principal Quadrupole Tensors for Cl and N. *Journal of Molecular Spectroscopy*, **1997**, 184, 215-220	1.3	11
43	The Rotational Spectrum of CBrClF2 (Halon BCF): II. The Lowest Excited Vibrational States and Nuclear Quadrupole Coupling Tensors. *Journal of Molecular Spectroscopy*, **1997**, 185, 71-8	1.3	11
42	Rotational spectrum of 14N2 □H35Cl and 14N2 □H37Cl: electric field gradients at the nitrogen nuclei. *Chemical Physics Letters*, **1997**, 276, 202-209	2.5	10
41	Fourier transform rotational spectrum and molecular structure of vinylcyclopropane. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 907		11
40	The mm-Wave Rotational Spectrum of CBrClF2(Halon BCF): Observation of a NewR-Type Band and Generalization of Conditions for Oblate-Type Band Formation. *Journal of Molecular Spectroscopy*, **1996**, 177, 240-250	1.3	36
39	Analysis of the High-Resolution FT-IR and Millimeter-Wave Spectra of the □= 1 State of CHF2Cl. *Journal of Molecular Spectroscopy*, **1996**, 178, 108-112	1.3	14
38	Assignment and Analysis of the mm-Wave Rotational Spectrum of Trichloroethylene: Observation of a New, ExtendedbR-Band and an Overview of High-J,R-Type Bands. *Journal of Molecular Spectroscopy*, **1996**, 178, 125-137	1.3	41
37	First assignment of the rotational spectrum of a molecule containing two iodine nuclei: Spectroscopic constants and structure of CH2I2. *Journal of Chemical Physics*, **1996**, 105, 1778-1785	3.9	33

36	The structure of cyclohexane, F-, Cl-, Br- and I-cyclohexane. *Journal of Molecular Structure*, **1995**, 350, 247-254	3.4	30
35	The High-Frequency Rotational Spectrum of 1,1,1-Trichloroethane and the Observation ofK= 3 Splitting. *Journal of Molecular Spectroscopy*, **1995**, 174, 425-432	1.3	11
34	Millimeter-Wave Spectrum of Nitrosyl Bromide in the Low-Lying Excited States: Equilibrium Structure and Cubic Force Field. *Journal of Molecular Spectroscopy*, **1995**, 170, 582-600	1.3	19
33	The Millimeter-Wave Rotational Spectrum and Coriolis Interaction in the Two Lowest Excited Vibrational States of CHClF2. *Journal of Molecular Spectroscopy*, **1995**, 173, 477-487	1.3	15
32	The rotational spectrum and structure of the hydrogen-bonded dimer formed between methylenecyclopropane and HF. *Chemical Physics Letters*, **1995**, 232, 187-191	2.5	7
31	The structures of CO□H3CCH and N2□H3CCH: Spectroscopic measurements and modeling. *Journal of Chemical Physics*, **1994**, 100, 3415-3421	3.9	12
30	Investigation of the rotational spectrum of the hydrogen-bonded dimer formed between methylenecyclopropane and HCl. *Journal of Chemical Physics*, **1994**, 101, 4635-4643	3.9	25
29	The Millimeter-Wave Rotational Spectrum of 2-Chloroacrylonitrile. *Journal of Molecular Spectroscopy*, **1994**, 166, 32-40	1.3	8
28	Microwave Spectrum, Structure, and Internal Motions of the Ketene-Ethylene Complex. *Journal of the American Chemical Society*, **1994**, 116, 5285-5294	16.4	9
27	The Millimeter-Wave Rotational Spectrum of Chloroacetonitrile. *Journal of Molecular Spectroscopy*, **1993**, 158, 318-327	1.3	9
26	The Millimeter-Wave Rotational Spectrum of Trichloroacetonitrile: A Study of h3 Splitting in a Near-Spherical Molecule. *Journal of Molecular Spectroscopy*, **1993**, 159, 96-102	1.3	8
25	The Rotational Spectrum of Tertiary Butyl Isocyanide up to 730 GHz - The Observation and Classification of the h3 Splitting. *Journal of Molecular Spectroscopy*, **1993**, 162, 467-473	1.3	17
24	Investigation of the rotational spectrum of the hydrogen-bonded dimer CF2CH2?HCl. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 3385-3391		29
23	The millimeter-wave rotational spectrum of tertiary butyl isocyanide. *Journal of Molecular Spectroscopy*, **1992**, 151, 396-404	1.3	5
22	A simple model for predicting structures of gas-phase van der Waals dimers containing a rare-gas atom. *The Journal of Physical Chemistry*, **1991**, 95, 7605-7612		31
21	Hydrogen bonding between vinylacetylene and HF: the role of steric effects in the geometry of vinylacetylene□X complexes. *Chemical Physics Letters*, **1991**, 176, 446-452	2.5	10
20	Rotational spectra and structures of van der Waals dimers of Ar with a series of fluorocarbons: Ar???CH2CHF, Ar???CH2CF2, and Ar???CHFCF2. *Journal of Chemical Physics*, **1991**, 95, 2283-2291	3.9	50
19	An investigation of hydrogen bonding between HCl and vinylacetylene: A molecule with two different □acceptor sites. *Journal of Chemical Physics*, **1990**, 93, 6249-6255	3.9	18

18	The millimeter-wave rotational spectrum of chlorobenzene: Analysis of centrifugal distortion and of conditions for oblate-type bandhead formation. *Journal of Molecular Spectroscopy*, **1990**, 144, 381-388	1.3	34
17	Rotational spectrum, structure, and chlorine nuclear quadrupole tensor of the vinyl fluoride□HCl dimer. *Journal of Chemical Physics*, **1990**, 93, 3054-3062	3.9	59
16	Analysis of a coriolis interaction between the in-plane and out-of-plane hydrogen bond bending modes in the dimer of oxirane and hydrogen fluoride. *Chemical Physics Letters*, **1989**, 155, 447-454	2.5	15
15	The rotational spectrum of tertiary butyl cyanide in the lowest vibrationally excited states. *Journal of Molecular Spectroscopy*, **1989**, 135, 223-233	1.3	5
14	Triatomic model of hydrogen-bond stretching modes in hydrogen-bonded dimers B?HX. *Journal of Molecular Structure*, **1989**, 198, 77-83	3.4	1
13	The rotational spectrum of acrylonitrile in excited states of the two low-frequency CCN bending vibrational modes. *Journal of Molecular Spectroscopy*, **1988**, 130, 303-315	1.3	21
12	Evalution of coriolis coupling constants for HCN...HF and their use in the estimation of v□*Chemical Physics Letters*, **1986**, 129, 489-492	2.5	4
11	Refractive index measurements in CH3I in the frequency region 50□10 GHz. *Molecular Physics*, **1986**, 58, 647-650	1.7	6
10	Vibrational satellites in the J= 3 <- 2 rotational transitions of D2O?DF: confirmation of the form of the potential energy function for the out-of-plane bending mode. *Journal of Molecular Structure*, **1985**, 131, 201-213	3.4	7
9	The rotational spectrum of the hydrogen-bonded heterodimer H2O□HF in the frequency range 40□0 GHz. *Chemical Physics Letters*, **1985**, 117, 543-549	2.5	23
8	The millimetre-wave rotational spectrum of tertiary butyl cyanide. *Chemical Physics Letters*, **1985**, 118, 334-339	2.5	14
7	High frequency rotational mode in liquid methyl chloride. *Molecular Physics*, **1985**, 54, 97-117	1.7	26
6	Potential constants for the hydrogen-bonded dimer H2O?HF: Directional character of the hydrogen bond. *Journal of Molecular Structure*, **1984**, 112, 1-8	3.4	22
5	Refractive index measurements in liquids within the frequency region 50 to 600 GHz; complex permittivity of C6H5Cl, CH3Cl and CH2Cl2. *Journal of Physics E: Scientific Instruments*, **1984**, 17, 240-245		10
4	Stark effects in the rotational spectrum of the dimer H2O???HF and the variation of the electric dipole moment with excitation of the low-frequency, hydrogen-bond modes. *Journal of Chemical Physics*, **1983**, 78, 2910-2914	3.9	37
3	Spectroscopic investigations of hydrogen bonding interactions in the gas phase. Vll. The equilibrium conformation and out-of-plane bending potential energy function of the hydrogen-bonded heterodimer H 2 O □HF determined from its microwave rotational spectrum.		104
2	Spectroscopic investigations of hydrogen bonding interactions in the gas phase. IV. The heterodimer H 2 0 □HF: the observation and analysis of its microwave rotational spectrum and the determination of its molecular geometry and electric dipole moment. *Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences*, **1980**, 372, 441-451		85
1	Conformations of some bicyclic monoterpenes based on bicyclo[3.1.0]hexane from their low-resolution microwave spectra. *Journal of the American Chemical Society*, **1978**, 100, 8166-8169	16.4	10