

Zbigniew Kisiel

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161
papers

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64
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163
ext. papers

5,557
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
161	Structures of cage, prism, and book isomers of water hexamer from broadband rotational spectroscopy. <i>Science</i> , 2012 , 336, 897-901	33.3	318
160	Interstellar Glycine. <i>Astrophysical Journal</i> , 2003 , 593, 848-867	4.7	303
159	Least-squares mass-dependence molecular structures for selected weakly bound intermolecular clusters. <i>Journal of Molecular Spectroscopy</i> , 2003 , 218, 58-67	1.3	278
158	Rotational spectrum of trans-trans diethyl ether in the ground and three excited vibrational states. <i>Journal of Molecular Spectroscopy</i> , 2005 , 233, 231-243	1.3	202
157	Concerted hydrogen-bond breaking by quantum tunneling in the water hexamer prism. <i>Science</i> , 2016 , 351, 1310-3	33.3	182
156	Broadband Fourier transform rotational spectroscopy for structure determination: The water heptamer. <i>Chemical Physics Letters</i> , 2013 , 571, 1-15	2.5	166
155	Spectroscopic investigations of hydrogen bonding interactions in the gas phase. VII. 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. <i>Proceedings of the Royal Society of London, Series A, Mathematical and Physical Sciences</i> , 1999 , 355, 419-442		104
154	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. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11504-11509	16.4	88
153	Spectroscopic investigations of hydrogen bonding interactions in the gas phase. IV. The heterodimer H ₂ O...HF: the observation and analysis of its microwave rotational spectrum and the determination of its molecular geometry and electric dipole moment. <i>Proceedings of the Royal Society of London, Series A, Mathematical and Physical Sciences</i> , 1999 , 355, 411-451		85
152	Hydrogen bond cooperativity and the three-dimensional structures of water nonamers and decamers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14368-72	16.4	82
151	A new torsion-rotation fitting program for molecules with a sixfold barrier: Application to the microwave spectrum of toluene. <i>Journal of Molecular Spectroscopy</i> , 2010 , 259, 26-38	1.3	82
150	Rotational Spectra of the Less Common Isotopomers, Electric Dipole Moment and the Double Minimum Inversion Potential of H ₂ O...HCl. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 6970-6978	2.8	78
149	The millimeter- and submillimeter-wave spectrum of the trans-gauche conformer of diethyl ether. <i>Journal of Molecular Spectroscopy</i> , 2004 , 228, 314-328	1.3	72
148	Astronomical searches for nitrogen heterocycles. <i>Advances in Space Research</i> , 2005 , 36, 137-145	2.4	72
147	Electric dipole moments of the cyclic trimers (H ₂ O) ₂ HCl and (H ₂ O) ₂ HBr from Stark effects in their rotational spectra. <i>Chemical Physics Letters</i> , 2000 , 325, 523-530	2.5	71
146	A rigorous detection of interstellar CHNCO: An important missing species in astrochemical networks. <i>Astronomy and Astrophysics</i> , 2016 , 587,	5.1	70
145	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. <i>Journal of Molecular Spectroscopy</i> , 2012 , 280, 134-144	1.3	67

144	The rotational spectra, electric dipole moments and molecular structures of anisole and benzaldehyde. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1708-15	3.6	64
143	Formation and photostability of N-heterocycles in space. <i>Astronomy and Astrophysics</i> , 2005 , 433, 583-590	5.1	64
142	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea. <i>Astronomy and Astrophysics</i> , 2019 , 628, A10	5.1	63
141	A search for interstellar pyrimidine. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 345, 650-656	4.3	62
140	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. <i>Astrophysical Journal Letters</i> , 2015 , 800, L14	7.9	59
139	Rotational spectrum, structure, and chlorine nuclear quadrupole tensor of the vinyl fluoride-Cl dimer. <i>Journal of Chemical Physics</i> , 1990 , 93, 3054-3062	3.9	59
138	Rotational spectra of quinoline and of isoquinoline: spectroscopic constants and electric dipole moments. <i>Journal of Molecular Spectroscopy</i> , 2003 , 217, 115-122	1.3	57
137	Structure and properties of the weakly bound trimer (H ₂ O) ₂ HCl observed by rotational spectroscopy. <i>Journal of Chemical Physics</i> , 2000 , 112, 5767-5776	3.9	55
136	Wetting Camphor: Multi-Isotopic Substitution Identifies the Complementary Roles of Hydrogen Bonding and Dispersive Forces. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 154-60	6.4	54
135	Pre-reactive complexes in mixtures of water vapour with halogens: characterisation of H ₂ O...ClF and H ₂ O...F ₂ by a combination of rotational spectroscopy and ab initio calculations. <i>Chemistry - A European Journal</i> , 2001 , 7, 2295-305	4.8	53
134	Searches for interstellar molecules of potential prebiotic importance. <i>Advances in Space Research</i> , 2004 , 33, 31-39	2.4	50
133	Rotational spectra and structures of van der Waals dimers of Ar with a series of fluorocarbons: Ar...CH ₂ CHF, Ar...CH ₂ CF ₂ , and Ar...CHF ₂ CF ₂ . <i>Journal of Chemical Physics</i> , 1991 , 95, 2283-2291	3.9	50
132	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. <i>Astronomy and Astrophysics</i> , 2014 , 572, A44	5.1	48
131	Rotational spectroscopy of iodobenzene and iodobenzene- ¹⁸ O with a direct digital 28GHz chirped-pulse Fourier transform microwave spectrometer. <i>Journal of Molecular Spectroscopy</i> , 2011 , 269, 21-29	1.3	46
130	Investigation of the Rotational Spectrum of Pyrimidine from 3 to 337 GHz: Molecular Structure, Nuclear Quadrupole Coupling, and Vibrational Satellites. <i>Journal of Molecular Spectroscopy</i> , 1999 , 195, 332-339	1.3	45
129	Determination of precise relative energies of conformers of n-propanol by rotational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8329-39	3.6	43
128	Assignment and Analysis of the mm-Wave Rotational Spectrum of Trichloroethylene: Observation of a New, Extended R-Band and an Overview of High-J, R-Type Bands. <i>Journal of Molecular Spectroscopy</i> , 1996 , 178, 125-137	1.3	41
127	Nuclear quadrupole coupling in Cl ₂ C=CHCl and Cl ₂ C=CH ₂ : Evidence for systematic differences in orientations between internuclear and field gradient axes for terminal quadrupolar nuclei. <i>Journal of Chemical Physics</i> , 1998 , 109, 10263-10272	3.9	40

126	ALMA detection and astrobiological potential of vinyl cyanide on Titan. <i>Science Advances</i> , 2017 , 3, e1700023	1.3	38
125	Stark effects in the rotational spectrum of the dimer H ₂ O...HF and the variation of the electric dipole moment with excitation of the low-frequency, hydrogen-bond modes. <i>Journal of Chemical Physics</i> , 1983 , 78, 2910-2914	3.9	37
124	The mm-Wave Rotational Spectrum of CBrClF ₂ (Halon BCF): Observation of a New R-Type Band and Generalization of Conditions for Oblate-Type Band Formation. <i>Journal of Molecular Spectroscopy</i> , 1996 , 177, 240-250	1.3	36
123	The millimeter-wave rotational spectrum of fluorobenzene. <i>Journal of Molecular Spectroscopy</i> , 2005 , 232, 47-54	1.3	35
122	The structure and electric dipole moment of camphor determined by rotational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 820-826	3.6	34
121	The Gas-Phase Electric Dipole Moments of the Symmetric Top Tertiary Butyl Molecules (t)BuX, X=F, Cl, Br, I, CN, and NC. <i>Journal of Molecular Spectroscopy</i> , 2001 , 208, 113-120	1.3	34
120	The millimeter-wave rotational spectrum of chlorobenzene: Analysis of centrifugal distortion and of conditions for oblate-type bandhead formation. <i>Journal of Molecular Spectroscopy</i> , 1990 , 144, 381-388	1.3	34
119	The rotational spectrum of acrylonitrile up to 1.67THz. <i>Journal of Molecular Spectroscopy</i> , 2009 , 258, 26-34	1.3	33
118	First assignment of the rotational spectrum of a molecule containing two iodine nuclei: Spectroscopic constants and structure of CH ₂ I ₂ . <i>Journal of Chemical Physics</i> , 1996 , 105, 1778-1785	3.9	33
117	The millimeter wave rotational spectrum of pyruvic acid. <i>Journal of Molecular Spectroscopy</i> , 2007 , 241, 220-229	1.3	32
116	Analysis of the rotational spectrum of pyruvonnitrile up to 324 GHz. <i>Journal of Molecular Spectroscopy</i> , 2010 , 260, 57-65	1.3	31
115	A simple model for predicting structures of gas-phase van der Waals dimers containing a rare-gas atom. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7605-7612		31
114	Corannulene and its complex with water: a tiny cup of water. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14214-14223	3.6	30
113	Capturing the Elusive Water Trimer from the Stepwise Growth of Water on the Surface of the Polycyclic Aromatic Hydrocarbon Acenaphthene. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5744-5750	6.4	30
112	The structure of cyclohexane, F-, Cl-, Br- and I-cyclohexane. <i>Journal of Molecular Structure</i> , 1995 , 350, 247-254	3.4	30
111	Investigation of the rotational spectrum of the hydrogen-bonded dimer CF ₂ CH ₂ ...HCl. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 3385-3391		29
110	Structure and properties of the weakly bound cyclic trimer (H ₂ O) ₂ HBr observed by rotational spectroscopy. <i>Journal of Chemical Physics</i> , 2003 , 119, 5907-5917	3.9	28
109	High frequency rotational mode in liquid methyl chloride. <i>Molecular Physics</i> , 1985 , 54, 97-117	1.7	26

108	The millimetre-wave rotational spectrum of phenylacetylene. <i>Journal of Molecular Spectroscopy</i> , 2010 , 262, 82-88	1.3	25
107	Investigation of the rotational spectrum of the hydrogen-bonded dimer formed between methylenecyclopropane and HCl. <i>Journal of Chemical Physics</i> , 1994 , 101, 4635-4643	3.9	25
106	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. <i>Astrophysical Journal</i> , 2017 , 850, 187	4.7	24
105	Comprehensive analysis of the FASSST rotational spectrum of S(CN) ₂ . <i>Journal of Molecular Spectroscopy</i> , 2007 , 246, 39-56	1.3	23
104	The rotational spectrum of the hydrogen-bonded heterodimer H ₂ O⋯HF in the frequency range 4080 GHz. <i>Chemical Physics Letters</i> , 1985 , 117, 543-549	2.5	23
103	New measurements and global analysis of rotational spectra of Cl-, Br-, and I-benzene: Spectroscopic constants and electric dipole moments. <i>Journal of Molecular Spectroscopy</i> , 2007 , 246, 228-232	1.3	22
102	Potential constants for the hydrogen-bonded dimer H ₂ O⋯HF: Directional character of the hydrogen bond. <i>Journal of Molecular Structure</i> , 1984 , 112, 1-8	3.4	22
101	Free jet rotational spectrum of propylene oxide⋯krypton and modelling and ab initio calculations for propylene oxide⋯rare gas dimers. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1359-1364	3.6	21
100	The rotational spectrum of acrylonitrile in excited states of the two low-frequency CCN bending vibrational modes. <i>Journal of Molecular Spectroscopy</i> , 1988 , 130, 303-315	1.3	21
99	The rotational spectrum of chlorine nitrate (ClONO ₂) in the four lowest n _g polyads. <i>Journal of Molecular Spectroscopy</i> , 2009 , 254, 78-86	1.3	20
98	Ground state rotational spectrum of toluene. <i>Journal of Molecular Spectroscopy</i> , 2004 , 227, 109-113	1.3	20
97	Rotational Spectrum of CD ₂ I ₂ . <i>Journal of Molecular Spectroscopy</i> , 1998 , 189, 283-90	1.3	19
96	The millimeter wave rotational spectrum of lactic acid. <i>Journal of Molecular Spectroscopy</i> , 2005 , 234, 106-112	1.3	19
95	Millimeter-Wave Spectrum of Nitrosyl Bromide in the Low-Lying Excited States: Equilibrium Structure and Cubic Force Field. <i>Journal of Molecular Spectroscopy</i> , 1995 , 170, 582-600	1.3	19
94	The Millimeter- and Submillimeter-Wave Spectrum of the trans-trans Conformer of Diethyl Ether (C ₂ H ₅ OC ₂ H ₅). <i>Astrophysical Journal, Supplement Series</i> , 2003 , 148, 593-597	8	18
93	An investigation of hydrogen bonding between HCl and vinylacetylene: A molecule with two different acceptor sites. <i>Journal of Chemical Physics</i> , 1990 , 93, 6249-6255	3.9	18
92	Electric dipole moments of acrylonitrile and of propionitrile measured in supersonic expansion. <i>Journal of Molecular Spectroscopy</i> , 2011 , 270, 83-87	1.3	17
91	Influence of the geometry of a hydrogen bond on conformational stability: a theoretical and experimental study of ethyl carbamate. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1719-28	3.6	17

90	Structure and properties of the weakly bound trimer (H ₂ O) ₂ HCl. Theoretical predictions and comparison with high-resolution rotational spectroscopy. <i>Chemical Physics</i> , 2001 , 271, 267-282	2-3	17
89	The Rotational Spectrum of Tertiary Butyl Isocyanide up to 730 GHz - The Observation and Classification of the h ₃ Splitting. <i>Journal of Molecular Spectroscopy</i> , 1993 , 162, 467-473	1-3	17
88	The 103.60 GHz rotational spectrum of benzonitrile, the first interstellar benzene derivative detected by radioastronomy. <i>Journal of Molecular Spectroscopy</i> , 2018 , 351, 39-48	1-3	16
87	Mapping Vinyl Cyanide and Other Nitriles in Titan's Atmosphere Using ALMA. <i>Astronomical Journal</i> , 2017 , 154, 206	4-9	16
86	Interactions between freons: a rotational study of CHF ₂ CHCl. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1032-8	4-5	16
85	Terahertz spectroscopy of isotopic acrylonitrile. <i>Journal of Molecular Structure</i> , 2011 , 1006, 20-27	3-4	16
84	Millimeter-Wave Rotational Spectra of the ³⁷ Cl Species of 1,1,1-Trichloroethane. <i>Journal of Molecular Spectroscopy</i> , 1997 , 181, 48-55	1-3	16
83	Spectroscopic Constants for HCFC-22 from Rotational and High-Resolution Vibration-Rotation Spectra: CHF ₂ ³⁷ Cl and ¹³ CHF ₂ ³⁵ Cl Isotopomers. <i>Journal of Molecular Spectroscopy</i> , 1997 , 184, 150-155	1-3	16
82	The angle-Dependent Bending Satellites in the Millimeter-Wave Rotational Spectra of CH ₂ I ₂ and CD ₂ I ₂ . <i>Journal of Molecular Spectroscopy</i> , 2000 , 199, 5-12	1-3	16
81	Exploring the Rich Potential Energy Surface of (HO) and Its Physical Implications. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1141-1153	6-4	15
80	Assignment and analysis of the rotational spectrum of bromoform enabled by broadband FTMW spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2009 , 257, 177-186	1-3	15
79	The Millimeter-Wave Rotational Spectrum and Coriolis Interaction in the Two Lowest Excited Vibrational States of CHClF ₂ . <i>Journal of Molecular Spectroscopy</i> , 1995 , 173, 477-487	1-3	15
78	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. <i>Chemical Physics Letters</i> , 1989 , 155, 447-454	2-5	15
77	Interferometric Imaging of Titan's HC ₃ N, H ¹³ CCN, and HCCC ¹⁵ N. <i>Astrophysical Journal Letters</i> , 2018 , 859, L15	7-9	15
76	Rotational spectrum and spectroscopic constants of ³⁶ Ar- ³⁵ Cl and ⁴⁰ Ar-HCl. <i>Chemical Physics Letters</i> , 1998 , 291, 190-196	2-5	14
75	Analysis of the High-Resolution FT-IR and Millimeter-Wave Spectra of the $\bar{\nu}_2 = 1$ State of CHF ₂ Cl. <i>Journal of Molecular Spectroscopy</i> , 1996 , 178, 108-112	1-3	14
74	The millimetre-wave rotational spectrum of tertiary butyl cyanide. <i>Chemical Physics Letters</i> , 1985 , 118, 334-339	2-5	14
73	Rotation-vibration interactions in the spectra of polycyclic aromatic hydrocarbons: Quinoline as a test-case species. <i>Journal of Chemical Physics</i> , 2015 , 142, 104310	3-9	13

72	Lowest vibrational states of acrylonitrile from microwave and synchrotron radiation spectra. <i>Journal of Molecular Spectroscopy</i> , 2015 , 315, 83-91	1.3	13
71	Analysis of the mm- and submm-wave rotational spectra of isotopic cyanamide: New isotopologues and molecular geometry. <i>Journal of Molecular Spectroscopy</i> , 2011 , 267, 144-149	1.3	13
70	The anomeric effect in 1,3-benzodioxole: additional evidence from the rotational, vibration-rotation and rovibronic spectra. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 5469-5475	3.6	13
69	The observation and characterization by rotational spectroscopy of the weakly bound trimer Ar ₂ HBr. <i>Journal of Chemical Physics</i> , 2002 , 117, 8248-8255	3.9	13
68	Detection of Cyclopropenylidene on Titan with ALMA. <i>Astronomical Journal</i> , 2020 , 160, 205	4.9	13
67	The rotational spectrum of chlorine nitrate (ClONO ₂): The ν_2/ν_3 dyad. <i>Journal of Molecular Spectroscopy</i> , 2007 , 243, 1-9	1.3	12
66	The structures of CO ¹³ CCH and N ₂ ¹³ CCH: Spectroscopic measurements and modeling. <i>Journal of Chemical Physics</i> , 1994 , 100, 3415-3421	3.9	12
65	Nuclear Quadrupole Coupling in 2-Chloroacrylonitrile: Inertial and Principal Quadrupole Tensors for Cl and N. <i>Journal of Molecular Spectroscopy</i> , 1997 , 184, 215-220	1.3	11
64	The Rotational Spectrum of CBrClF ₂ (Halon BCF): II. The Lowest Excited Vibrational States and Nuclear Quadrupole Coupling Tensors. <i>Journal of Molecular Spectroscopy</i> , 1997 , 185, 71-8	1.3	11
63	Nuclear Quadrupole Coupling in 1,1,1-Trichloroethane: Inertial and Principal Tensors for ³⁵ Cl and ³⁷ Cl. <i>Journal of Molecular Spectroscopy</i> , 1998 , 189, 228-34	1.3	11
62	Nuclear quadrupole coupling in chloroform and calibration of ab initio calculations. <i>Journal of Molecular Spectroscopy</i> , 2006 , 238, 72-78	1.3	11
61	Fourier transform rotational spectrum and molecular structure of vinylcyclopropane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 907		11
60	The High-Frequency Rotational Spectrum of 1,1,1-Trichloroethane and the Observation of K= 3 Splitting. <i>Journal of Molecular Spectroscopy</i> , 1995 , 174, 425-432	1.3	11
59	Sextic centrifugal distortion in fluorobenzene and phenylacetylene from cm-wave rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2019 , 359, 16-21	1.3	10
58	Structure and properties of the (HCl) ₂ H ₂ O cluster observed by chirped-pulse Fourier transform microwave spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13912-9	3.6	10
57	Rotational spectrum of ¹⁴ N ₂ ¹⁵ H ³⁵ Cl and ¹⁴ N ₂ ¹⁵ H ³⁷ Cl: electric field gradients at the nitrogen nuclei. <i>Chemical Physics Letters</i> , 1997 , 276, 202-209	2.5	10
56	The experimental electric dipole moments of the ArnHX van der Waals clusters. <i>Chemical Physics Letters</i> , 2001 , 333, 381-386	2.5	10
55	Hydrogen bonding between vinylacetylene and HF: the role of steric effects in the geometry of vinylacetylene _n X complexes. <i>Chemical Physics Letters</i> , 1991 , 176, 446-452	2.5	10

54	Refractive index measurements in liquids within the frequency region 50 to 600 GHz; complex permittivity of C ₆ H ₅ Cl, CH ₃ Cl and CH ₂ Cl ₂ . <i>Journal of Physics E: Scientific Instruments</i> , 1984 , 17, 240-245		10
53	Conformations of some bicyclic monoterpenes based on bicyclo[3.1.0]hexane from their low-resolution microwave spectra. <i>Journal of the American Chemical Society</i> , 1978 , 100, 8166-8169	16.4	10
52	High-J rotational spectrum of toluene in m ? 3 torsional states. <i>Journal of Molecular Spectroscopy</i> , 2017 , 339, 31-39	1.3	9
51	Far-infrared spectrum of S(CN) ₂ measured with synchrotron radiation: global analysis of the available high-resolution spectroscopic data. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13815-24	2.8	9
50	Microwave Spectrum, Structure, and Internal Motions of the Ketene-Ethylene Complex. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5285-5294	16.4	9
49	The Millimeter-Wave Rotational Spectrum of Chloroacetonitrile. <i>Journal of Molecular Spectroscopy</i> , 1993 , 158, 318-327	1.3	9
48	Comprehensive analysis of the rotational spectrum of 2,2-dichloropropane. <i>Journal of Molecular Spectroscopy</i> , 2015 , 308-309, 20-27	1.3	8
47	Rotation and rotation-vibration spectroscopy of the 0 ⁺ -0 ⁻ inversion doublet in deuterated cyanamide. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 9889-98	2.8	8
46	The millimeter-wave spectrum of chlorine nitrate (ClONO ₂): The B vibrational state. <i>Journal of Molecular Spectroscopy</i> , 2007 , 244, 113-116	1.3	8
45	The Millimeter-Wave Rotational Spectrum of 2-Chloroacrylonitrile. <i>Journal of Molecular Spectroscopy</i> , 1994 , 166, 32-40	1.3	8
44	The Millimeter-Wave Rotational Spectrum of Trichloroacetonitrile: A Study of h ₃ Splitting in a Near-Spherical Molecule. <i>Journal of Molecular Spectroscopy</i> , 1993 , 159, 96-102	1.3	8
43	Identification of Trace 2-Chloropropene with a New Chirped Pulse Microwave Spectrometer. <i>Acta Physica Polonica A</i> , 2017 , 131, 311-317	0.6	8
42	The complete molecular geometry and electric dipole moment of salicyl aldehyde from rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2017 , 335, 3-12	1.3	7
41	Millimetre wave rotational spectrum of glycolic acid. <i>Journal of Molecular Spectroscopy</i> , 2016 , 321, 13-22	1.3	7
40	Hydrogen Bond Cooperativity and the Three-Dimensional Structures of Water Nonamers and Decamers. <i>Angewandte Chemie</i> , 2014 , 126, 14596-14600	3.6	7
39	The pure rotational spectrum of Difluoroiodomethane, CHF ₂ I. <i>Journal of Molecular Spectroscopy</i> , 2010 , 261, 82-86	1.3	7
38	Strong Coriolis coupling between and states of studied by millimeter-wave spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2008 , 251, 235-240	1.3	7
37	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. <i>Journal of Molecular Spectroscopy</i> , 2001 , 208, 101-109	1.3	7

36	The rotational spectrum and structure of the hydrogen-bonded dimer formed between methylenecyclopropane and HF. <i>Chemical Physics Letters</i> , 1995 , 232, 187-191	2.5	7
35	Vibrational satellites in the J= 3 \leftarrow 2 rotational transitions of D ₂ O ¹⁸ O: confirmation of the form of the potential energy function for the out-of-plane bending mode. <i>Journal of Molecular Structure</i> , 1985 , 131, 201-213	3.4	7
34	Propionitrile in the two lowest excited vibrational states in the laboratory and on Titan. <i>Journal of Molecular Spectroscopy</i> , 2020 , 372, 111324	1.3	7
33	Glycinamide, a Glycine Precursor, Caught in the Gas Phase: A Laser-ablation Jet-cooled Rotational Study. <i>Astrophysical Journal</i> , 2018 , 861, 70	4.7	7
32	Measurement of CH ₃ D on Titan at Submillimeter Wavelengths. <i>Astronomical Journal</i> , 2019 , 157, 219	4.9	6
31	Bridgehead distortion at the C1 position of 1-fluoroadamantane revealed by rotational spectroscopy and ab initio calculations. <i>Journal of Molecular Structure</i> , 2002 , 612, 83-91	3.4	6
30	Refractive index measurements in CH ₃ I in the frequency region 50-10 GHz. <i>Molecular Physics</i> , 1986 , 58, 647-650	1.7	6
29	Detection of CH ₃ C ₃ N in Titan's Atmosphere. <i>Astrophysical Journal Letters</i> , 2020 , 903, L22	7.9	6
28	The millimeter-wave rotational spectrum of tertiary butyl isocyanide. <i>Journal of Molecular Spectroscopy</i> , 1992 , 151, 396-404	1.3	5
27	The rotational spectrum of tertiary butyl cyanide in the lowest vibrationally excited states. <i>Journal of Molecular Spectroscopy</i> , 1989 , 135, 223-233	1.3	5
26	Observation of ³⁶ ArH ³⁷ Cl, ³⁸ ArH ³⁵ Cl and ³⁸ ArH ³⁷ Cl in natural abundance using CP-FTMW spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2018 , 344, 34-38	1.3	5
25	Bond Length Alternation Observed Experimentally: The Case of 1H-Indazole. <i>Chemistry - A European Journal</i> , 2019 , 25, 10172-10178	4.8	4
24	The Coriolis Interaction between the v ₂ = 1 and v ₃ = 2 States of Nitrosyl Bromide: Anomalous Quadrupole Patterns and Interstate Transitions in the Millimeter-Wave Spectrum. <i>Journal of Molecular Spectroscopy</i> , 1998 , 191, 316-325	1.3	4
23	Assignment and analysis of the rotational spectrum of 3-chlorobenzonitrile. <i>Journal of Molecular Spectroscopy</i> , 2006 , 239, 88-93	1.3	4
22	Evaluation of coriolis coupling constants for HCN...HF and their use in the estimation of v ₃ . <i>Chemical Physics Letters</i> , 1986 , 129, 489-492	2.5	4
21	Microsolvation of ethyl carbamate conformers: effect of carrier gas on the formation of complexes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18351-18360	3.6	4
20	A Comprehensive Spectral Rotational Analysis of the Interstellar Methyl Isocyanate CH ₃ NCO. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 245, 31	8	4
19	Fast analytical evaluation of intermolecular electrostatic interaction energies using the pseudoatom representation of the electron density. I. The L ² -in \mathbb{F} function method. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018 , 74, 524-536	1.7	4

18	Rotational spectra of hydrazoic acid. <i>Journal of Molecular Spectroscopy</i> , 2017 , 337, 27-31	1.3	3
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