Zbigniew Kisiel

List of Publications by Year
in descending order

162	6,011	87843	88593
papers	citations	38 h-index	70 g-index

163	163	163	2890
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structures of Cage, Prism, and Book Isomers of Water Hexamer from Broadband Rotational Spectroscopy. Science, 2012, 336, 897-901.	6.0	377
2	Interstellar Glycine. Astrophysical Journal, 2003, 593, 848-867.	1.6	338
3	Least-squares mass-dependence molecular structures for selected weakly bound intermolecular clusters. Journal of Molecular Spectroscopy, 2003, 218, 58-67.	0.4	320
4	Concerted hydrogen-bond breaking by quantum tunneling in the water hexamer prism. Science, 2016, 351, 1310-1313.	6.0	256
5	Rotational spectrum of transâ€“trans diethyl ether in the ground and three excited vibrational states. Journal of Molecular Spectroscopy, 2005, 233, 231-243.	0.4	241
6	Broadband Fourier transform rotational spectroscopy for structure determination: The water heptamer. Chemical Physics Letters, 2013, 571, 1-15.	1.2	216
7	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea. Astronomy and Astrophysics, 2019, 628, A10.	2.1	117
8	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 â€¢ â€¢ â€¢ HF determined from its microwave rotational spectrum. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1982, 381, 419-442.	1.5	114
9	A new torsionâ€“rotation fitting program for molecules with a sixfold barrier: Application to the microwave spectrum of toluene. Journal of Molecular Spectroscopy, 2010, 259, 26-38.	0.4	106
10	Hydrogen Bond Cooperativity and the Threeâ€Dimensional Structures of Water Nonamers and Decamers. Angewandte Chemie - International Edition, 2014, 53, 14368-14372.	7.2	106
11	The Hydrogen Bond between Water and Aromatic Bases of Biological Interest:Â An Experimental and Theoretical Study of the 1:1 Complex of Pyrimidine with Water. Journal of the American Chemical Society, 1998, 120, 11504-11509.	6.6	92
12	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. Journal of Molecular Spectroscopy, 2012, 280, 134-144.	0.4	91
13	Spectroscopic investigations of hydrogen bonding interactions in the gas phase. IV. The heterodimer H 2 0 â€¢ â€¢ â€¢ 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.	1.5	90
14	Astronomical searches for nitrogen heterocycles. Advances in Space Research, 2005, 36, 137-145.	1.2	88
15	A rigorous detection of interstellar CH₃NCO: An important missing species in astrochemical networks. Astronomy and Astrophysics, 2016, 587, L4.	2.1	87
16	Rotational Spectra of the Less Common Isotopomers, Electric Dipole Moment and the Double Minimum Inversion Potential of H2OÂ·Â·Â·HCl. Journal of Physical Chemistry A, 2000, 104, 6970-6978.	1.1	83
17	Formation and photostability of N-heterocycles in space. Astronomy and Astrophysics, 2005, 433, 583-590.	2.1	82
18	The millimeter- and submillimeter-wave spectrum of the transâ€“gauche conformer of diethyl ether. Journal of Molecular Spectroscopy, 2004, 228, 314-328.	0.4	81

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19	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.	1.2	75
20	A search for interstellar pyrimidine. Monthly Notices of the Royal Astronomical Society, 2003, 345, 650-656.	1.6	73
21	The rotational spectra, electric dipole moments and molecular structures of anisole and benzaldehyde. Physical Chemistry Chemical Physics, 2005, 7, 1708-1715.	1.3	73
22	ETHYL CYANIDE ON TITAN: SPECTROSCOPIC DETECTION AND MAPPING USING ALMA. Astrophysical Journal Letters, 2015, 800, L14.	3.0	73
23	Rotational spectra of quinoline and of isoquinoline: spectroscopic constants and electric dipole moments. Journal of Molecular Spectroscopy, 2003, 217, 115-122.	0.4	68
24	Rotational spectra and structures of van der Waals dimers of Ar with a series of fluorocarbons: Arâ‹…â‹…â‹…CH2CHF, Arâ‹…â‹…â‹…CH2CF2, and Arâ‹…â‹…â‹…CHFCF2. Journal of Chemical Physics, 1991, 95, 2283-2291.	1.2	66
25	Wetting Camphor: Multi-Isotopic Substitution Identifies the Complementary Roles of Hydrogen Bonding and Dispersive Forces. Journal of Physical Chemistry Letters, 2016, 7, 154-160.	2.1	66
26	Rotational spectrum, structure, and chlorine nuclear quadrupole tensor of the vinyl fluorideâ€“HCl dimer. Journal of Chemical Physics, 1990, 93, 3054-3062.	1.2	63
27	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. Astronomy and Astrophysics, 2014, 572, A44.	2.1	60
28	Pre-reactive Complexes in Mixtures of Water Vapour with Halogens: Characterisation of H2Oâ‹…â‹…â‹…ClF and H2Oâ‹…â‹…â‹…F2 by a Combination of Rotational Spectroscopy and Ab initio Calculations. Chemistry - A European Journal, 2001, 7, 2295-2305.	1.7	59
29	Rotational spectroscopy of iodobenzene and iodobenzeneâ€“neon with a direct digital 2â€“8GHz chirped-pulse Fourier transform microwave spectrometer. Journal of Molecular Spectroscopy, 2011, 269, 21-29.	0.4	58
30	ALMA detection and astrobiological potential of vinyl cyanide on Titan. Science Advances, 2017, 3, e1700022.	4.7	58
31	Structure and properties of the weakly bound trimer (H2O)2HCl observed by rotational spectroscopy. Journal of Chemical Physics, 2000, 112, 5767-5776.	1.2	56
32	Searches for interstellar molecules of potential prebiotic importance. Advances in Space Research, 2004, 33, 31-39.	1.2	55
33	Determination of precise relative energies of conformers of n-propanol by rotational spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 8329.	1.3	51
34	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.	2.1	48
35	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.	0.4	47
36	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.	0.4	45

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37	Stark effects in the rotational spectrum of the dimer H2Oâ‹…â‹…â‹…HF and the variation of the electric dipole moment with excitation of the lowâ€frequency, hydrogenâ€bond modes. Journal of Chemical Physics, 1983, 78, 2910-2914.	1.2	43
38	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.	1.2	43
39	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.	0.4	41
40	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.	0.4	40
41	Corannulene and its complex with water: a tiny cup of water. Physical Chemistry Chemical Physics, 2017, 19, 14214-14223.	1.3	39
42	The structure and electric dipole moment of camphor determined by rotational spectroscopyElectronic supplementary information (ESI) available: Measured and fitted frequencies of field-free rotational transitions and of Stark components, and the results of fitting the molecular geometry. See http://www.rsc.org/suppdata/cp/b2/b212029a/. Physical Chemistry Chemical Physics, 2003, 5, 820-826.	1.3	38
43	The millimeter-wave rotational spectrum of fluorobenzene. Journal of Molecular Spectroscopy, 2005, 232, 47-54.	0.4	37
44	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.	1.2	36
45	The rotational spectrum of acrylonitrile up to 1.67THz. Journal of Molecular Spectroscopy, 2009, 258, 26-34.	0.4	36
46	Detection of Cyclopropenylidene on Titan with ALMA. Astronomical Journal, 2020, 160, 205.	1.9	36
47	The structure of cyclohexane, F-, Cl-, Br- and I-cyclohexane. Journal of Molecular Structure, 1995, 350, 247-254.	1.8	35
48	The Gas-Phase Electric Dipole Moments of the Symmetric Top Tertiary Butyl Molecules tBuX, X=F, Cl, Br, I, CN, and NC. Journal of Molecular Spectroscopy, 2001, 208, 113-120.	0.4	35
49	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.	2.9	34
50	The millimeter wave rotational spectrum of pyruvic acid. Journal of Molecular Spectroscopy, 2007, 241, 220-229.	0.4	34
51	The rotational spectrum of the hydrogen-bonded heterodimer H2Oâ€¦HF in the frequency range 40â€“80 GHz. Chemical Physics Letters, 1985, 117, 543-549.	1.2	33
52	Analysis of the rotational spectrum of pyruvonitrile up to 324 GHz. Journal of Molecular Spectroscopy, 2010, 260, 57-65.	0.4	33
53	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.	0.4	32
54	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.	1.6	32

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55	Investigation of the rotational spectrum of the hydrogen-bonded dimer CF2CH2â‹¯HCl. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 3385-3391.	1.7	31
56	The millimetre-wave rotational spectrum of phenylacetylene. Journal of Molecular Spectroscopy, 2010, 262, 82-88.	0.4	31
57	High frequency rotational mode in liquid methyl chloride. Molecular Physics, 1985, 54, 97-117.	0.8	30
58	Investigation of the rotational spectrum of the hydrogenâ€bonded dimer formed between methylenecyclopropane and HCl. Journal of Chemical Physics, 1994, 101, 4635-4643.	1.2	30
59	Structure and properties of the weakly bound cyclic trimer (H2O)2HBr observed by rotational spectroscopy. Journal of Chemical Physics, 2003, 119, 5907-5917.	1.2	28
60	Potential constants for the hydrogen-bonded dimer H2Oâ‹¯HF: Directional character of the hydrogen bond. Journal of Molecular Structure, 1984, 112, 1-8.	1.8	25
61	Comprehensive analysis of the FASSST rotational spectrum of S(CN)2. Journal of Molecular Spectroscopy, 2007, 246, 39-56.	0.4	25
62	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.	0.4	25
63	Ground state rotational spectrum of toluene. Journal of Molecular Spectroscopy, 2004, 227, 109-113.	0.4	24
64	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.	0.4	23
65	Free jet rotational spectrum of propylene oxideâ€“krypton and modelling and ab initio calculations for propylene oxideâ€“rare gas dimersElectronic supplementary information (ESI) available: Tables S1 and S2: Experimental transition frequencies of PROâ‹¯84Kr and PROâ‹¯86Kr complexes. See http://www.rsc.org/suppdata/cp/b3/b300386h/. Physical Chemistry Chemical Physics, 2003, 5, 1359-1364.	1.3	23
66	The millimeter wave rotational spectrum of lactic acid. Journal of Molecular Spectroscopy, 2005, 234, 106-112.	0.4	23
67	An investigation of hydrogen bonding between HCl and vinylacetylene: A molecule with two different Ï€â€acceptor sites. Journal of Chemical Physics, 1990, 93, 6249-6255.	1.2	22
68	The 103â€“360â€¯GHz rotational spectrum of benzonitrile, the first interstellar benzene derivative detected by radioastronomy. Journal of Molecular Spectroscopy, 2018, 351, 39-48.	0.4	22
69	The rotational spectrum of chlorine nitrate (ClONO2) in the four lowest nÎ½9 polyads. Journal of Molecular Spectroscopy, 2009, 254, 78-86.	0.4	21
70	Mapping Vinyl Cyanide and Other Nitriles in Titanâ€™s Atmosphere Using ALMA. Astronomical Journal, 2017, 154, 206.	1.9	21
71	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.	1.2	20
72	Rotational Spectrum of CD2I2. Journal of Molecular Spectroscopy, 1998, 189, 283-290.	0.4	20

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73	Electric dipole moments of acrylonitrile and of propionitrile measured in supersonic expansion. Journal of Molecular Spectroscopy, 2011, 270, 83-87.	0.4	20
74	Lowest vibrational states of acrylonitrile from microwave and synchrotron radiation spectra. Journal of Molecular Spectroscopy, 2015, 315, 83-91.	0.4	20
75	Exploring the Rich Potential Energy Surface of (H₂O)₁₁ and Its Physical Implications. Journal of Chemical Theory and Computation, 2018, 14, 1141-1153.	2.3	20
76	The Millimeterâ€•and Submillimeterâ€Wave Spectrum of the transâ€trans Conformer of Diethyl Ether (C 2 H) Tj ETQq0 0 0 rgBT /Overlo	3.0	19
77	The millimetre-wave rotational spectrum of tertiary butyl cyanide. Chemical Physics Letters, 1985, 118, 334-339.	1.2	18
78	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.	0.4	18
79	Analysis of the High-Resolution FT-IR and Millimeter-Wave Spectra of the Î½5= 1 State of CHF2Cl. Journal of Molecular Spectroscopy, 1996, 178, 108-112.	0.4	18
80	Spectroscopic Constants for HCFC-22 from Rotational and High-Resolution Vibrationâ€“Rotation Spectra: CHF237Cl and13CHF235Cl Isotopomers. Journal of Molecular Spectroscopy, 1997, 184, 150-155.	0.4	18
81	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.	1.3	18
82	Terahertz spectroscopy of isotopic acrylonitrile. Journal of Molecular Structure, 2011, 1006, 20-27.	1.8	18
83	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.	0.4	17
84	Millimeter-Wave Rotational Spectra of the37Cl Species of 1,1,1-Trichloroethane. Journal of Molecular Spectroscopy, 1997, 181, 48-55.	0.4	17
85	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.	0.9	17
86	Interferometric Imaging of Titanâ€™s HC₃N, H¹³CCCN, and HCCC¹⁵N. Astrophysical Journal Letters, 2018, 859, L15.	3.0	17
87	The âˆ†ICl Bending Satellites in the Millimeter-Wave Rotational Spectra of CH2I2 and CD2I2. Journal of Molecular Spectroscopy, 2000, 199, 5-12.	0.4	16
88	Assignment and analysis of the rotational spectrum of bromoform enabled by broadband FTMW spectroscopy. Journal of Molecular Spectroscopy, 2009, 257, 177-186.	0.4	16
89	Interactions between Freons: A Rotational Study of CH₂F₂â€“CH₂Cl₂. Chemistry - an Asian Journal, 2014, 9, 1032-1038.	1.7	16
90	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.	0.4	15

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91	Sextic centrifugal distortion in fluorobenzene and phenylacetylene from cm-wave rotational spectroscopy. Journal of Molecular Spectroscopy, 2019, 359, 16-21.	0.4	15
92	Hydrogen bonding between vinylacetylene and HF: the role of steric effects in the geometry of vinylacetyleneâ€¦HX complexes. Chemical Physics Letters, 1991, 176, 446-452.	1.2	14
93	The structures of COâ€“CH3CCH and N2â€“CH3CCH: Spectroscopic measurements and modeling. Journal of Chemical Physics, 1994, 100, 3415-3421.	1.2	14
94	Rotational spectrum and spectroscopic constants of 36Arâ‹¯H35Cl and 40Arâ‹¯HCl. Chemical Physics Letters, 1998, 291, 190-196.	1.2	14
95	The observation and characterization by rotational spectroscopy of the weakly bound trimer Ar2HBr. Journal of Chemical Physics, 2002, 117, 8248-8255.	1.2	14
96	The anomeric effect in 1,3-benzodioxole: additional evidence from the rotational, vibrationâ€“rotation and rovibronic spectra. Physical Chemistry Chemical Physics, 2004, 6, 5469-5475.	1.3	14
97	Rotation-vibration interactions in the spectra of polycyclic aromatic hydrocarbons: Quinoline as a test-case species. Journal of Chemical Physics, 2015, 142, 104310.	1.2	14
98	High-J rotational spectrum of toluene in |m| â©½ 3 torsional states. Journal of Molecular Spectroscopy, 2017, 339, 31-39.	0.4	14
99	Identification of Trace 2-Chloropropene with a New Chirped Pulse Microwave Spectrometer. Acta Physica Polonica A, 2017, 131, 311-317.	0.2	14
100	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.	6.6	13
101	Vibrational satellites in the J= 3 â†•2 rotational transitions of D2Oâ‹¯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.	1.8	12
102	Microwave Spectrum, Structure, and Internal Motions of the Ketene-Ethylene Complex. Journal of the American Chemical Society, 1994, 116, 5285-5294.	6.6	12
103	Fourier transform rotational spectrum and molecular structure of vinylcyclopropane. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 907.	1.7	12
104	Nuclear quadrupole coupling in chloroform and calibration of ab initio calculations. Journal of Molecular Spectroscopy, 2006, 238, 72-78.	0.4	12
105	The rotational spectrum of chlorine nitrate (ClONO2): The Î½5/Î½6Î½9 dyad. Journal of Molecular Spectroscopy, 2007, 243, 1-9.	0.4	12
106	Structure and properties of the (HCl)2H2O cluster observed by chirped-pulse Fourier transform microwave spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 13912.	1.3	12
107	The Millimeter-Wave Rotational Spectrum of Chloroacetonitrile. Journal of Molecular Spectroscopy, 1993, 158, 318-327.	0.4	11
108	The Millimeter-Wave Rotational Spectrum of 2-Chloroacrylonitrile. Journal of Molecular Spectroscopy, 1994, 166, 32-40.	0.4	11

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109	The High-Frequency Rotational Spectrum of 1,1,1-Trichloroethane and the Observation ofK= 3 Splitting. Journal of Molecular Spectroscopy, 1995, 174, 425-432.	0.4	11
110	Nuclear Quadrupole Coupling in 2-Chloroacrylonitrile: Inertial and Principal Quadrupole Tensors for Cl and N. Journal of Molecular Spectroscopy, 1997, 184, 215-220.	0.4	11
111	The Rotational Spectrum of CBrClF2(Halon BCF): II. The Lowest Excited Vibrational States and Nuclear Quadrupole Coupling Tensors. Journal of Molecular Spectroscopy, 1997, 185, 71-78.	0.4	11
112	Nuclear Quadrupole Coupling in 1,1,1-Trichloroethane: Inertial and Principal Tensors for35Cl and37Cl. Journal of Molecular Spectroscopy, 1998, 189, 228-234.	0.4	11
113	Millimetre wave rotational spectrum of glycolic acid. Journal of Molecular Spectroscopy, 2016, 321, 13-22.	0.4	11
114	Detection of CH₃C₃N in Titanâ€™s Atmosphere. Astrophysical Journal Letters, 2020, 903, L22.	3.0	11
115	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.	0.4	11
116	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.	0.7	10
117	Rotational spectrum of 14N2 Â· H35Cl and 14N2 Â· H37Cl: electric field gradients at the nitrogen nuclei. Chemical Physics Letters, 1997, 276, 202-209.	1.2	10
118	The experimental electric dipole moments of the ArnHX van der Waals clusters. Chemical Physics Letters, 2001, 333, 381-386.	1.2	10
119	Far-Infrared Spectrum of S(CN)2Measured with Synchrotron Radiation: Global Analysis of the Available High-Resolution Spectroscopic Data. Journal of Physical Chemistry A, 2013, 117, 13815-13824.	1.1	10
120	Rotation and Rotationâ€“Vibration Spectroscopy of the 0⁺â€“0^{â€“} Inversion Doublet in Deuterated Cyanamide. Journal of Physical Chemistry A, 2013, 117, 9889-9898.	1.1	10
121	The complete molecular geometry and electric dipole moment of salicyl aldehyde from rotational spectroscopy. Journal of Molecular Spectroscopy, 2017, 335, 3-12.	0.4	10
122	Glycinamide, a Glycine Precursor, Caught in the Gas Phase: A Laser-ablation Jet-cooled Rotational Study. Astrophysical Journal, 2018, 861, 70.	1.6	10
123	Water Triggers Hydrogenâ€Bondâ€Network Reshaping in the Glycoaldehyde Dimer. Angewandte Chemie - International Edition, 2020, 59, 8401-8405.	7.2	10
124	The rotational spectrum of tertiary butyl cyanide in the lowest vibrationally excited states. Journal of Molecular Spectroscopy, 1989, 135, 223-233.	0.4	9
125	The rotational spectrum and structure of the hydrogen-bonded dimer formed between methylenecyclopropane and HF. Chemical Physics Letters, 1995, 232, 187-191.	1.2	9
126	Comprehensive analysis of the rotational spectrum of 2,2-dichloropropane. Journal of Molecular Spectroscopy, 2015, 308-309, 20-27.	0.4	9

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127	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.	0.4	8
128	The millimeter-wave spectrum of chlorine nitrate (ClONO2): The Î½6 vibrational state. Journal of Molecular Spectroscopy, 2007, 244, 113-116.	0.4	8
129	Measurement of CH₃D on Titan at Submillimeter Wavelengths. Astronomical Journal, 2019, 157, 219.	1.9	8
130	Microsolvation of ethyl carbamate conformers: effect of carrier gas on the formation of complexes. Physical Chemistry Chemical Physics, 2020, 22, 18351-18360.	1.3	8
131	Hydrogen versus tetrel bonds in complexes of 3-oxetanone with water and formaldehyde. Physical Chemistry Chemical Physics, 2021, 23, 7295-7301.	1.3	8
132	High-Resolution Infrared and Millimeter-Wave Study of D3SiF: The Ground and v3=1 States of the 29Si and 30Si Species, and the v3=v6=1 and v3=2 States of D328SiF. Journal of Molecular Spectroscopy, 2001, 208, 101-109.	0.4	7
133	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.	1.8	7
134	Strong Coriolis coupling between and states of studied by millimeter-wave spectroscopy. Journal of Molecular Spectroscopy, 2008, 251, 235-240.	0.4	7
135	The pure rotational spectrum of Difluoroiodomethane, CHF2I. Journal of Molecular Spectroscopy, 2010, 261, 82-86.	0.4	7
136	Rotational spectra of hydrazoic acid. Journal of Molecular Spectroscopy, 2017, 337, 27-31.	0.4	7
137	Observation of 36ArH37Cl, 38ArH35Cl and 38ArH37Cl in natural abundance using CP-FTMW spectroscopy. Journal of Molecular Spectroscopy, 2018, 344, 34-38.	0.4	7
138	Propionitrile in the two lowest excited vibrational states in the laboratory and on Titan. Journal of Molecular Spectroscopy, 2020, 372, 111324.	0.4	7
139	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.	0.4	7
140	Millimetre-wave laboratory study of glycinamide and a search for it with ALMA towards Sagittarius B2(N). Astronomy and Astrophysics, 2022, 657, A99.	2.1	7
141	Refractive index measurements in CH3I in the frequency region 50â€“310 GHz. Molecular Physics, 1986, 58, 647-650.	0.8	6
142	The millimeter-wave rotational spectrum of tertiary butyl isocyanide. Journal of Molecular Spectroscopy, 1992, 151, 396-404.	0.4	6
143	Fast analytical evaluation of intermolecular electrostatic interaction energies using the pseudoatom representation of the electron density. I. The LÃ¶wdin Î±-function method. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 524-536.	0.0	6
144	Bond Length Alternation Observed Experimentally: The Case of 1Hâ€indazole. Chemistry - A European Journal, 2019, 25, 10172-10178.	1.7	6

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145	Evalution of coriolis coupling constants for HCN...HF and their use in the estimation of vÎ². Chemical Physics Letters, 1986, 129, 489-492.	1.2	5
146	Rotational spectroscopy update for the newly identified atmospheric ozone depleter CF3CCl3. Journal of Molecular Spectroscopy, 2018, 352, 1-9.	0.4	5
147	A Comprehensive Spectral Rotational Analysis of the Interstellar Methyl Isocyanate CH₃NCO. Astrophysical Journal, Supplement Series, 2019, 245, 31.	3.0	5
148	Rotational spectroscopy and precise molecular structure of 1,2-dichlorobenzene. Journal of Molecular Spectroscopy, 2020, 374, 111380.	0.4	5
149	Water Triggers Hydrogenâ€Bondâ€Network Reshaping in the Glycoaldehyde Dimer. Angewandte Chemie, 2020, 132, 8479-8483.	1.6	5
150	The Coriolis Interaction between thev2= 1 andv3= 2 States of Nitrosyl Bromide: Anomalous Quadrupole Patterns and Interstate Transitions in the Millimeter-Wave Spectrum. Journal of Molecular Spectroscopy, 1998, 191, 316-325.	0.4	4
151	Assignment and analysis of the rotational spectrum of 3-chlorobenzonitrile. Journal of Molecular Spectroscopy, 2006, 239, 88-93.	0.4	4
152	Comprehensive rotational spectroscopy of the newly identified atmospheric ozone depleter CF3CH2Cl. Journal of Molecular Spectroscopy, 2017, 337, 37-45.	0.4	4
153	Further rotational spectroscopy of phenol: Sextic centrifugal distortion and vibrational satellites. Journal of Molecular Spectroscopy, 2022, 386, 111630.	0.4	4
154	Submillimetre-wave spectrum, 14N-hyperfine structure, and dipole moment of cyclopropyl cyanide. Journal of Molecular Spectroscopy, 2008, 251, 138-144.	0.4	3
155	Structure of Butyl Carbamate and of Its Water Complex in the Gas Phase. Journal of Physical Chemistry A, 2019, 123, 7983-7990.	1.1	3
156	The Millimeter-Wave Rotational Spectrum of CCl3CN in Excited Vibrational States. Journal of Molecular Spectroscopy, 1997, 183, 168-175.	0.4	2
157	Re-exploring Molecular Complexity with ALMA (ReMoCA): interstellar detection of urea (Corrigendum). Astronomy and Astrophysics, 2020, 637, C4.	2.1	2
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