Lech Pszczolkowski

List of Publications by Year
in descending order

56 papers	1,782 citations	279487 23 h-index	288905 40 g-index
56 all docs	56 docs citations	56 times ranked	802 citing authors

#	Article	IF	Citations
1	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
2	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
3	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. Journal of Molecular Spectroscopy, 2012, 280, 134-144.	0.4	91
4	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
5	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
6	The rotational spectra, electric dipole moments and molecular structures of anisole and benzaldehyde. Physical Chemistry Chemical Physics, 2005, 7, 1708-1715.	1.3	73
7	Rotational spectra of quinoline and of isoquinoline: spectroscopic constants and electric dipole moments. Journal of Molecular Spectroscopy, 2003, 217, 115-122.	0.4	68
8	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. Astronomy and Astrophysics, 2014, 572, A44.	2.1	60
9	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
10	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
11	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
12	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
13	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
14	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
15	The millimeter-wave rotational spectrum of fluorobenzene. Journal of Molecular Spectroscopy, 2005, 232, 47-54.	0.4	37
16	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
17	The rotational spectrum of acrylonitrile up to 1.67THz. Journal of Molecular Spectroscopy, 2009, 258, 26-34.	0.4	36
18	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

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19	The millimeter wave rotational spectrum of pyruvic acid. Journal of Molecular Spectroscopy, 2007, 241, 220-229.	0.4	34
20	Analysis of the rotational spectrum of pyruvonitrile up to 324 GHz. Journal of Molecular Spectroscopy, 2010, 260, 57-65.	0.4	33
21	High frequency rotational mode in liquid methyl chloride. Molecular Physics, 1985, 54, 97-117.	0.8	30
22	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
23	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
24	Ground state rotational spectrum of toluene. Journal of Molecular Spectroscopy, 2004, 227, 109-113.	0.4	24
25	The millimeter wave rotational spectrum of lactic acid. Journal of Molecular Spectroscopy, 2005, 234, 106-112.	0.4	23
26	Rotational Spectrum of CD2I2. Journal of Molecular Spectroscopy, 1998, 189, 283-290.	0.4	20
27	The Millimeterâ€•and Submillimeterâ€Wave Spectrum of the transâ€trans Conformer of Diethyl Ether (C 2 H) Tj ETQq1 1 0.784314 rgBT	3.0	19
28	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
29	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
30	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
31	Millimeter-Wave Rotational Spectra of the37Cl Species of 1,1,1-Trichloroethane. Journal of Molecular Spectroscopy, 1997, 181, 48-55.	0.4	17
32	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
33	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
34	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
35	Dielectric absorption and molecular reorientation in CH3I. Molecular Physics, 1984, 53, 1481-1493.	0.8	14
36	Rotational spectrum and spectroscopic constants of 36Arâ‹¯H35Cl and 40Arâ‹¯HCl. Chemical Physics Letters, 1998, 291, 190-196.	1.2	14

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37	The observation and characterization by rotational spectroscopy of the weakly bound trimer Ar2HBr. Journal of Chemical Physics, 2002, 117, 8248-8255.	1.2	14
38	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
39	High-J rotational spectrum of toluene in |m| â©½ 3 torsional states. Journal of Molecular Spectroscopy, 2017, 339, 31-39.	0.4	14
40	Nuclear quadrupole coupling in chloroform and calibration of ab initio calculations. Journal of Molecular Spectroscopy, 2006, 238, 72-78.	0.4	12
41	The Millimeter-Wave Rotational Spectrum of Chloroacetonitrile. Journal of Molecular Spectroscopy, 1993, 158, 318-327.	0.4	11
42	The Millimeter-Wave Rotational Spectrum of 2-Chloroacrylonitrile. Journal of Molecular Spectroscopy, 1994, 166, 32-40.	0.4	11
43	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
44	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
45	Millimetre wave rotational spectrum of glycolic acid. Journal of Molecular Spectroscopy, 2016, 321, 13-22.	0.4	11
46	Applicability of extended hydrodynamical model to dielectric relaxation in simple polar liquids. Physical Review Letters, 1992, 68, 3635-3637.	2.9	10
47	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
48	The experimental electric dipole moments of the ArnHX van der Waals clusters. Chemical Physics Letters, 2001, 333, 381-386.	1.2	10
49	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
50	Comprehensive analysis of the rotational spectrum of 2,2-dichloropropane. Journal of Molecular Spectroscopy, 2015, 308-309, 20-27.	0.4	9
51	Strong Coriolis coupling between and states of studied by millimeter-wave spectroscopy. Journal of Molecular Spectroscopy, 2008, 251, 235-240.	0.4	7
52	Precise absorption measurements in polar liquids within the frequency range 50 to 600 GHz. Journal of Physics E: Scientific Instruments, 1982, 15, 304-306.	0.7	6
53	Refractive index measurements in CH3I in the frequency region 50â€“310 GHz. Molecular Physics, 1986, 58, 647-650.	0.8	6
54	Rotational spectroscopy update for the newly identified atmospheric ozone depleter CF3CCl3. Journal of Molecular Spectroscopy, 2018, 352, 1-9.	0.4	5

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55	Assignment and analysis of the rotational spectrum of 3-chlorobenzonitrile. Journal of Molecular Spectroscopy, 2006, 239, 88-93.	0.4	4
56	Comprehensive rotational spectroscopy of the newly identified atmospheric ozone depleter CF3CH2Cl. Journal of Molecular Spectroscopy, 2017, 337, 37-45.	0.4	4