

# Lech Pszczolkowski

## List of Publications by Citations

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56  
papers

1,565  
citations

22  
h-index

37  
g-index

56  
ext. papers

1,694  
ext. citations

2.1  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
56	Rotational spectrum of trans-trans diethyl ether in the ground and three excited vibrational states. <i>Journal of Molecular Spectroscopy</i> , <b>2005</b> , 233, 231-243	1.3	202
55	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> , <b>2010</b> , 259, 26-38	1.3	82
54	The millimeter- and submillimeter-wave spectrum of the trans-gauche conformer of diethyl ether. <i>Journal of Molecular Spectroscopy</i> , <b>2004</b> , 228, 314-328	1.3	72
53	Electric dipole moments of the cyclic trimers (H <sub>2</sub> O) <sub>2</sub> HCl and (H <sub>2</sub> O) <sub>2</sub> HBr from Stark effects in their rotational spectra. <i>Chemical Physics Letters</i> , <b>2000</b> , 325, 523-530	2.5	71
52	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. <i>Journal of Molecular Spectroscopy</i> , <b>2012</b> , 280, 134-144	1.3	67
51	The rotational spectra, electric dipole moments and molecular structures of anisole and benzaldehyde. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 1708-15	3.6	64
50	Rotational spectra of quinoline and of isoquinoline: spectroscopic constants and electric dipole moments. <i>Journal of Molecular Spectroscopy</i> , <b>2003</b> , 217, 115-122	1.3	57
49	Structure and properties of the weakly bound trimer (H <sub>2</sub> O) <sub>2</sub> HCl observed by rotational spectroscopy. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 5767-5776	3.9	55
48	Laboratory characterization and astrophysical detection of vibrationally excited states of vinyl cyanide in Orion-KL. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 572, A44	5.1	48
47	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> , <b>1999</b> , 195, 332-339	1.3	45
46	Assignment and Analysis of the mm-Wave Rotational Spectrum of Trichloroethylene: Observation of a New, Extended R-Band and an Overview of High-J <sub>r</sub> -Type Bands. <i>Journal of Molecular Spectroscopy</i> , <b>1996</b> , 178, 125-137	1.3	41
45	Nuclear quadrupole coupling in Cl <sub>2</sub> C=CHCl and Cl <sub>2</sub> C=CH <sub>2</sub> : Evidence for systematic differences in orientations between internuclear and field gradient axes for terminal quadrupolar nuclei. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 10263-10272	3.9	40
44	The mm-Wave Rotational Spectrum of CBrClF <sub>2</sub> (Halon BCF): Observation of a New R-Type Band and Generalization of Conditions for Oblate-Type Band Formation. <i>Journal of Molecular Spectroscopy</i> , <b>1996</b> , 177, 240-250	1.3	36
43	The millimeter-wave rotational spectrum of fluorobenzene. <i>Journal of Molecular Spectroscopy</i> , <b>2005</b> , 232, 47-54	1.3	35
42	The structure and electric dipole moment of camphor determined by rotational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 820-826	3.6	34
41	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> , <b>2001</b> , 208, 113-120	1.3	34
40	The rotational spectrum of acrylonitrile up to 1.67THz. <i>Journal of Molecular Spectroscopy</i> , <b>2009</b> , 258, 26-34	1.3	33

39	First assignment of the rotational spectrum of a molecule containing two iodine nuclei: Spectroscopic constants and structure of CH <sub>2</sub> I <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 1778-1785	3.9	33
38	The millimeter wave rotational spectrum of pyruvic acid. <i>Journal of Molecular Spectroscopy</i> , <b>2007</b> , 241, 220-229	1.3	32
37	Analysis of the rotational spectrum of pyruvotrinitrile up to 324 GHz. <i>Journal of Molecular Spectroscopy</i> , <b>2010</b> , 260, 57-65	1.3	31
36	Structure and properties of the weakly bound cyclic trimer (H <sub>2</sub> O) <sub>2</sub> HBr observed by rotational spectroscopy. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 5907-5917	3.9	28
35	High frequency rotational mode in liquid methyl chloride. <i>Molecular Physics</i> , <b>1985</b> , 54, 97-117	1.7	26
34	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> , <b>2007</b> , 246, 228-232	1.3	22
33	Ground state rotational spectrum of toluene. <i>Journal of Molecular Spectroscopy</i> , <b>2004</b> , 227, 109-113	1.3	20
32	Rotational Spectrum of CD <sub>2</sub> I <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>1998</b> , 189, 283-90	1.3	19
31	The millimeter wave rotational spectrum of lactic acid. <i>Journal of Molecular Spectroscopy</i> , <b>2005</b> , 234, 106-112	1.3	19
30	The Millimeter- and Submillimeter-Wave Spectrum of the trans-trans Conformer of Diethyl Ether (C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub> ). <i>Astrophysical Journal, Supplement Series</i> , <b>2003</b> , 148, 593-597	8	18
29	Structure and properties of the weakly bound trimer (H <sub>2</sub> O) <sub>2</sub> HCl. Theoretical predictions and comparison with high-resolution rotational spectroscopy. <i>Chemical Physics</i> , <b>2001</b> , 271, 267-282	2.3	17
28	Millimeter-Wave Rotational Spectra of the <sup>37</sup> Cl Species of 1,1,1-Trichloroethane. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 181, 48-55	1.3	16
27	Spectroscopic Constants for HCFC-22 from Rotational and High-Resolution Vibration-Rotation Spectra: CHF <sub>2</sub> <sup>37</sup> Cl and <sup>13</sup> CHF <sub>2</sub> <sup>35</sup> Cl Isotopomers. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 184, 150-155	1.3	16
26	The angle-Dependent Bending Satellites in the Millimeter-Wave Rotational Spectra of CH <sub>2</sub> I <sub>2</sub> and CD <sub>2</sub> I <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>2000</b> , 199, 5-12	1.3	16
25	Assignment and analysis of the rotational spectrum of bromoform enabled by broadband FTMW spectroscopy. <i>Journal of Molecular Spectroscopy</i> , <b>2009</b> , 257, 177-186	1.3	15
24	The Millimeter-Wave Rotational Spectrum and Coriolis Interaction in the Two Lowest Excited Vibrational States of CHClF <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>1995</b> , 173, 477-487	1.3	15
23	Rotational spectrum and spectroscopic constants of <sup>36</sup> Ar- <sup>35</sup> Cl and <sup>40</sup> Ar-HCl. <i>Chemical Physics Letters</i> , <b>1998</b> , 291, 190-196	2.5	14
22	Analysis of the High-Resolution FT-IR and Millimeter-Wave Spectra of the $\nu = 1$ State of CHF <sub>2</sub> Cl. <i>Journal of Molecular Spectroscopy</i> , <b>1996</b> , 178, 108-112	1.3	14

21	The anomeric effect in 1,3-benzodioxole: additional evidence from the rotational, vibration-rotation and rovibronic spectra. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 5469-5475	3.6	13
20	The observation and characterization by rotational spectroscopy of the weakly bound trimer Ar <sub>2</sub> HBr. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 8248-8255	3.9	13
19	Dielectric absorption and molecular reorientation in CH <sub>3</sub> I. <i>Molecular Physics</i> , <b>1984</b> , 53, 1481-1493	1.7	13
18	Nuclear Quadrupole Coupling in 2-Chloroacrylonitrile: Inertial and Principal Quadrupole Tensors for Cl and N. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 184, 215-220	1.3	11
17	The Rotational Spectrum of CBrClF <sub>2</sub> (Halon BCF): II. The Lowest Excited Vibrational States and Nuclear Quadrupole Coupling Tensors. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 185, 71-8	1.3	11
16	Nuclear quadrupole coupling in chloroform and calibration of ab initio calculations. <i>Journal of Molecular Spectroscopy</i> , <b>2006</b> , 238, 72-78	1.3	11
15	Rotational spectrum of <sup>14</sup> N <sub>2</sub> - <sup>35</sup> Cl and <sup>14</sup> N <sub>2</sub> - <sup>37</sup> Cl: electric field gradients at the nitrogen nuclei. <i>Chemical Physics Letters</i> , <b>1997</b> , 276, 202-209	2.5	10
14	The experimental electric dipole moments of the ArnHX van der Waals clusters. <i>Chemical Physics Letters</i> , <b>2001</b> , 333, 381-386	2.5	10
13	Applicability of extended hydrodynamical model to dielectric relaxation in simple polar liquids. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3635-3637	7.4	10
12	High-J rotational spectrum of toluene in  m  = 3 torsional states. <i>Journal of Molecular Spectroscopy</i> , <b>2017</b> , 339, 31-39	1.3	9
11	The Millimeter-Wave Rotational Spectrum of Chloroacetonitrile. <i>Journal of Molecular Spectroscopy</i> , <b>1993</b> , 158, 318-327	1.3	9
10	Comprehensive analysis of the rotational spectrum of 2,2-dichloropropane. <i>Journal of Molecular Spectroscopy</i> , <b>2015</b> , 308-309, 20-27	1.3	8
9	The Millimeter-Wave Rotational Spectrum of 2-Chloroacrylonitrile. <i>Journal of Molecular Spectroscopy</i> , <b>1994</b> , 166, 32-40	1.3	8
8	The complete molecular geometry and electric dipole moment of salicyl aldehyde from rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , <b>2017</b> , 335, 3-12	1.3	7
7	Millimetre wave rotational spectrum of glycolic acid. <i>Journal of Molecular Spectroscopy</i> , <b>2016</b> , 321, 13-22	1.3	7
6	Strong Coriolis coupling between and states of studied by millimeter-wave spectroscopy. <i>Journal of Molecular Spectroscopy</i> , <b>2008</b> , 251, 235-240	1.3	7
5	Refractive index measurements in CH <sub>3</sub> I in the frequency region 50-10 GHz. <i>Molecular Physics</i> , <b>1986</b> , 58, 647-650	1.7	6
4	Precise absorption measurements in polar liquids within the frequency range 50 to 600 GHz. <i>Journal of Physics E: Scientific Instruments</i> , <b>1982</b> , 15, 304-306		6

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| 3 | Assignment and analysis of the rotational spectrum of 3-chlorobenzonitrile. <i>Journal of Molecular Spectroscopy</i> , <b>2006</b> , 239, 88-93  | 1.3 | 4 |
| 2 | Comprehensive rotational spectroscopy of the newly identified atmospheric ozone depleter CF <sub>3</sub> CH <sub>2</sub> Cl. <i>Journal of Molecular Spectroscopy</i> , <b>2017</b> , 337, 37-45 | 1.3 | 3 |
| 1 | Rotational spectroscopy update for the newly identified atmospheric ozone depleter CF <sub>3</sub> CCl <sub>3</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>2018</b> , 352, 1-9          | 1.3 | 2 |