W Leo Meerts

List of Publications by Citations

203 papers	5,724 citations	41 h-index	61 g-index
208 ext. papers	5,965 ext. citations	3 avg, IF	5.16 L-index

#	Paper	IF	Citations
203	High resolution UV spectroscopy of phenol and the hydrogen bonded phenol-water cluster. *Journal of Chemical Physics*, **1996**, 104, 972-982	3.9	224
202	Pyrazine: An "Exact" Solution to the Problem of Radiationless Transitions. *Annual Review of Physical Chemistry*, **1987**, 38, 433-462	15.7	152
201	Electric and magnetic properties of carbon monoxide by molecular-beam electric-resonance spectroscopy. *Chemical Physics*, **1977**, 22, 319-324	2.3	139
200	Detection of sodium cyanide (NaCN) in IRC 10216. *Astrophysical Journal*, **1994**, 426, L97	4.7	103
199	Rotationally resolved ultraviolet spectroscopy of indole, indazole, and benzimidazole: Inertial axis reorientation in the S1(1Lb)<-S0 transitions. *Journal of Chemical Physics*, **1995**, 103, 9596-9606	3.9	101
198	Application of genetic algorithms in automated assignments of high-resolution spectra. *International Reviews in Physical Chemistry*, **2006**, 25, 353-406	7	98
197	The hyperfine □doubling spectrum of 14N16O and 15N16O. *Journal of Molecular Spectroscopy*, **1972**, 44, 320-346	1.3	96
196	A Molecular Beam Electric Resonance Study of the Hyperfine □Doubling Spectrum of OH, OD, SH, and SD. *Canadian Journal of Physics*, **1975**, 53, 2123-2141	1.1	95
195	Near-uv spectra with fully resolved rotational structure of naphthalene and perdeuterated naphthalene. *Journal of Molecular Spectroscopy*, **1984**, 104, 271-281	1.3	93
194	Rotational spectrum and structure of KCN. *Journal of Chemical Physics*, **1980**, 73, 4875-4882	3.9	91
193	trans-Stilbene. A rigid, planar asymmetric top in the zero-point vibrational levels of its S0 and S1 electronic states. *The Journal of Physical Chemistry*, **1990**, 94, 6-8		89
192	The submillimeter rotation tunneling spectrum of the water dimer. *Journal of Molecular Spectroscopy*, **1991**, 147, 27-39	1.3	84
191	Spectrum of the molecular eigenstates of pyrazine. *Chemical Physics Letters*, **1982**, 92, 565-569	2.5	83
190	Hyperfine structure, electric and magnetic properties of 14N2 16O in the ground and first excited bending vibrational state. *Chemical Physics*, **1978**, 31, 19-29	2.3	83
189	New applications of the genetic algorithm for the interpretation of high-resolution spectra. *Canadian Journal of Chemistry*, **2004**, 82, 804-819	0.9	79
188	Structural selection by microsolvation: conformational locking of tryptamine. *Journal of the American Chemical Society*, **2005**, 127, 10356-64	16.4	75
187	Direct determination of molecular constants from rovibronic spectra with genetic algorithms. *Journal of Chemical Physics*, **2000**, 113, 7955-7962	3.9	75

186	Vibronic coupling in indole: I. Theoretical description of the 1La-1Lb interaction and the electronic spectrum. *Physical Chemistry Chemical Physics*, **2010**, 12, 4968-79	3.6	73
185	High-resolution molecular-beam spectroscopy of NaCN and Na13CN. *Chemical Physics*, **1984**, 86, 147-159	2.3	70
184	Electric dipole moments of OH and OD by molecular beam electric resonance. *Chemical Physics Letters*, **1973**, 23, 45-47	2.5	69
183	Vibronic coupling in indole: II. Investigation of the 1La-1Lb interaction using rotationally resolved electronic spectroscopy. *Physical Chemistry Chemical Physics*, **2010**, 12, 4980-8	3.6	59
182	A far infrared laser sideband spectrometer in the frequency region 550–2700 GHz. *Review of Scientific Instruments*, **1990**, 61, 1612-1625	1.7	57
181	Stark-zeeman hyperfine structure of H79 Br and H81 Br by molecular-beam electric-resonance spectroscopy. *Chemical Physics*, **1973**, 2, 473-477	2.3	57
180	Ultra high-resolution fluorescence excitation spectrum of 1B1 pyrimidine in a molecular beam. Structural assignments, analysis of singlet–triplet perturbations, and implications for intersystem crossing in the isolated molecule. *Journal of Chemical Physics*, **1988**, 89, 1813-1826	3.9	56
179	Avoided-crossing molecular-beam experiments on fluoroform (CF3H) and fluoroform-d (CF3D). *Journal of Chemical Physics*, **1981**, 75, 596-603	3.9	55
178	Study of the torsion-rotation Hamiltonian for symmetric tops using the millimeter wave spectrum of methyl silane. *Journal of Molecular Spectroscopy*, **1983**, 102, 89-111	1.3	55
177	Rotational spectrum, hyperfine spectrum and structure of lithium isocyanide. *Chemical Physics*, **1983**, 82, 385-393	2.3	54
176	A study of the singlet–triplet perturbations in the A 1Au state of acetylene by high resolution ultraviolet spectroscopy. *Journal of Chemical Physics*, **1994**, 100, 165-174	3.9	53
175	Proton tunneling in the benzoic acid dimer studied by high resolution ultraviolet spectroscopy. *Journal of Chemical Physics*, **2000**, 112, 10890-10894	3.9	51
174	The structure of fluorene (C13H10) and the fluorine–argon van der Waals complex from a high-resolution near ultraviolet spectrum. *Canadian Journal of Physics*, **1984**, 62, 1293-1299	1.1	50
173	IR dissociation of ammonia clusters. *Chemical Physics*, **1987**, 115, 79-91	2.3	49
172	High resolution double-resonance spectroscopy on Rydberg states of CO. *Journal of Chemical Physics*, **1993**, 99, 5701-5711	3.9	45
171	High resolution lifetime measurements of the perturbed J=0 levels of the 1B3u state of pyrazine. *Journal of Chemical Physics*, **1987**, 86, 4396-4400	3.9	45
170	High-resolution laser-rf spectroscopy on the A2Π2-X2Π2 system of Iodine oxide (IO). *Journal of Molecular Spectroscopy*, **1983**, 102, 320-343	1.3	45
169	A theoretical reinvestigation of the rotational and hyperfine lambda doubling spectra of diatomic molecules with a 2Σ state: the spectrum of no. *Chemical Physics*, **1976**, 14, 421-425	2.3	45

168	Spectroscopy on triphenylamine and its van der Waals complexes. *Chemical Physics*, **1992**, 163, 209-222	2.3	44
167	Tunneling splittings in the S0 and S1 states of the benzoic acid dimer determined by high-resolution UV spectroscopy. *ChemPhysChem*, **2008**, 9, 1788-97	3.2	43
166	Analysis and deconvolution of some J rovibronic transitions in the high resolution S1<-S0 fluorescence excitation spectrum of pyrazine. *Journal of Chemical Physics*, **1989**, 90, 1313-1321	3.9	43
165	Microwave and submillimeter spectroscopy of ArNH3 states correlating with Ar+NH3 (j=1,?k?=1). *Journal of Chemical Physics*, **1991**, 95, 793-803	3.9	43
164	Rotationally resolved laser spectroscopy of tetracene and its van der Waals complexes with inert gas atoms. *Journal of Chemical Physics*, **1987**, 87, 182-190	3.9	43
163	The submillimeter rotation-tunneling spectrum of Ar-D2O and Ar-NH3. *Chemical Physics*, **1991**, 151, 407-418	2.3	42
162	Molecular beam electric resonance study of KCN, K13CN and KC15N. *Journal of Molecular Spectroscopy*, **1984**, 106, 280-298	1.3	40
161	Submillimeter spectroscopy on OH+: The rotational transition at 1 THz. *Journal of Chemical Physics*, **1985**, 82, 3868-3869	3.9	39
160	High resolution electronic spectroscopy of 1-aminonaphthalene: S0 and S1 geometries and S1<-S0 transition moment orientations. *Journal of Chemical Physics*, **1996**, 104, 3935-3946	3.9	38
159	Acetone, a laser-induced fluorescence study with rotational resolution at 320 nm. *Chemical Physics*, **1992**, 163, 193-208	2.3	37
158	Internal rotation in methyl silane by avoided-crossing molecular-beam spectroscopy. *Journal of Molecular Spectroscopy*, **1982**, 94, 38-54	1.3	37
157	The structure of phenol-Ar(n) (n=1,2) clusters in their S(0) and S(1) states. *Journal of Chemical Physics*, **2009**, 130, 224303	3.9	36
156	The electric dipole moment of (NH3)2 for G: ?K?=1. *Journal of Chemical Physics*, **1993**, 99, 2449-2452	3.9	36
155	Far infrared laser sideband spectroscopy of H3O+: the pure inversion spectrum around 55 cm-1. *Chemical Physics Letters*, **1989**, 161, 195-201	2.5	36
154	Observations of Population Inversion between the Doublet States of OH. *Physical Review Letters*, **1976**, 36, 1031-1034	7.4	36
153	A new automated assign and analysing method for high-resolution rotationally resolved spectra using genetic algorithms. *Physica Scripta*, **2006**, 73, C47-C52	2.6	35
152	Rotationally resolved electronic spectroscopy of 4-aminobenzonitrile. *Chemical Physics Letters*, **1997**, 278, 373-379	2.5	34
151	Laser manipulation of iron for nanofabrication. *Applied Physics Letters*, **2004**, 85, 3842-3844	3.4	34

150	Tunable infrared and far-infrared direct absorption spectroscopy of molecular ions in a supersonic jet expansion. *Chemical Physics Letters*, **1994**, 219, 384-388	2.5	34
149	Determination of the spin□otation and hyperfine structure in the A 2⊞12, ⊡= 0 and ⊡= 1 states of OH. *Chemical Physics Letters*, **1983**, 94, 25-28	2.5	34
148	High-resolution tunable spectroscopy of rotational transitions of NO near 30 cm□1. *Journal of Molecular Spectroscopy*, **1980**, 84, 162-169	1.3	34
147	New Method of Studying Internal Rotation in a Symmetric Rotor. *Physical Review Letters*, **1978**, 41, 1109-1112	7.4	33
146	Determining the intermolecular structure in the S0 and S1 states of the phenol dimer by rotationally resolved electronic spectroscopy. *ChemPhysChem*, **2006**, 7, 1241-9	3.2	32
145	Electric and magnetic properties of ozone by molecular beam electric resonance spectroscopy. *Chemical Physics*, **1977**, 19, 467-472	2.3	32
144	Diesel combustion: In-cylinder NO concentrations in relation to injection timing. *Combustion and Flame*, **2007**, 151, 333-346	5.3	31
143	Determination of the structure of 7-azaindole in the electronic ground and excited state using high-resolution ultraviolet spectroscopy and an automated assignment based on a genetic algorithm. *Molecular Physics*, **2004**, 102, 1605-1614	1.7	31
142	Determination of electric dipole moments and transition probabilities of low-lying singlet states of CO. *Journal of Chemical Physics*, **1993**, 99, 2352-2358	3.9	31
141	Time- and space-resolved quantitative LIF measurements of formaldehyde in a heavy-duty diesel engine. *Combustion and Flame*, **2010**, 157, 155-166	5.3	30
140	Determination of the electric dipole moment of HN+2. *Journal of Chemical Physics*, **1990**, 93, 8446-8451	3.9	30
139	Structural information on the S0 and S1 state of o-fluorophenol by hole burning and high resolution ultraviolet spectroscopy. *Journal of Chemical Physics*, **2000**, 112, 6237-6244	3.9	29
138	Torsion-rotation-vibration effects in the degenerate vibrational fundamental (v12 = 1 <- 0) of CH3SiH3. *Journal of Molecular Spectroscopy*, **1989**, 137, 166-203	1.3	29
137	The (Ka=0-ħ) submillimeter rotation-tunneling spectrum of the water dimer. *Chemical Physics Letters*, **1990**, 166, 500-502	2.5	29
136	Structure of sodium cyanide by molecular beam electric resonance spectroscopy. *Journal of Chemical Physics*, **1982**, 77, 5245-5246	3.9	29
135	A genetic algorithm based determination of the ground and excited (1Lb) state structure and the orientation of the transition dipole moment of benzimidazole. *Physical Chemistry Chemical Physics*, **2006**, 8, 228-35	3.6	28
134	The structure of the phenol-nitrogen cluster: a joint experimental and ab initio study. *Journal of Chemical Physics*, **2004**, 120, 2752-8	3.9	28
133	Electrical and magnetic properties of OCS in the (0110) vibrational state measured by molecular-beam electric-resonance spectroscopy. *Chemical Physics Letters*, **1972**, 16, 576-580	2.5	28

132	Twisted intramolecular charge transfer states: rotationally resolved fluorescence excitation spectra of 4,4'-dimethylaminobenzonitrile in a molecular beam. *Journal of Chemical Physics*, **2005**, 122, 84309	3.9	27
131	Avoided-crossing molecular-beam spectroscopy of symmetric tops. I. Phosphoryl fluoride (OPF3). *Canadian Journal of Physics*, **1981**, 59, 150-171	1.1	27
130	Quantitative laser-induced fluorescence measurements of nitric oxide in a heavy-duty Diesel engine. *Proceedings of the Combustion Institute*, **2007**, 31, 765-773	5.9	26
129	An infrared□far-infrared double resonance study on (NH3)2 in a jet. *Chemical Physics Letters*, **1992**, 193, 261-268	2.5	26
128	Vibrational effects in the hydroxyl radical by molecular beam electric resonance spectroscopy. *Molecular Physics*, **1979**, 37, 425-439	1.7	26
127	Accurate determination of predissociation rates and transition frequencies for carbon monoxide. *Astrophysical Journal*, **1994**, 427, L55	4.7	26
126	A solid-state NMR and DFT study of compositional modulations in Al(x)Ga(1-x)As. *Physical Chemistry Chemical Physics*, **2010**, 12, 11517-35	3.6	25
125	Conformational effects on excitonic interactions in a prototypical H-bonded bichromophore: bis(2-hydroxyphenyl)methane. *Journal of Physical Chemistry A*, **2009**, 113, 5000-12	2.8	25
124	Electronically excited states of tryptamine and its microhydrated complex. *Journal of Chemical Physics*, **2006**, 125, 124309	3.9	25
123	The submillimeter rotation tunneling spectrum of (D2O)2. *Chemical Physics Letters*, **1990**, 173, 115-121	2.5	25
122	Avoided Crossings in Molecular-Beam Electric-Resonance Spectroscopy: The Observation of Forbidden (□=□1, □2, □3) Transitions in Phosphoryl Fluoride (OPF3). *Physical Review Letters*, **1978**, 40, 226-229	7.4	25
121	The Hyperfine □DOUBLING Spectrum of Sulfur Hydride in the ^{2}□{3/2} State. *Astrophysical Journal*, **1974**, 187, L45	4.7	25
120	Internal rotation in CH3CD3: Raman spectroscopy of torsional overtones. *Chemical Physics Letters*, **1986**, 128, 494-500	2.5	24
119	Soot particulate size characterization in a heavy-duty diesel engine for different engine loads by laser-induced incandescence. *Proceedings of the Combustion Institute*, **2007**, 31, 685-691	5.9	23
118	The ammonia dimer: new infrared-far infrared double resonance results. *Chemical Physics*, **1995**, 193, 327-338	2.3	23
117	Rotationally resolved electronic spectroscopy of 5-methoxyindole. *Journal of Chemical Physics*, **2010**, 133, 024303	3.9	22
116	Rotationally resolved UV spectroscopy of the 2H-tautomer of benzotriazole in a molecular beam. *Chemical Physics Letters*, **1994**, 226, 305-309	2.5	22
115	The trans-stilbene-Ar van der Waals complex. Vibrationally averaged substitution structure in its S0 and S1 electronic states. *Chemical Physics*, **1991**, 156, 251-260	2.3	22

114	Determination of the electric dipole moment of KrH+. *Journal of Molecular Spectroscopy*, **1992**, 153, 710-717	1.3	22
113	Methyl torsional barriers in different electronic states. Simultaneous determination from the rotationally resolved fluorescence excitation spectrum of a large molecule. *Journal of Chemical Physics*, **1989**, 90, 2521-2522	3.9	22
112	The absolute value of the quantum yield of the fluorescence of the 1B3u 0□ state of pyrazine as a function of the rotational quantum numbers. *Journal of Chemical Physics*, **1987**, 86, 4004-4010	3.9	22
111	Sub-millimeter laser sideband spectroscopy of H3O+. *Chemical Physics Letters*, **1988**, 143, 501-504	2.5	22
110	Hyperfine and □doubling parameters for the v = 1 state of NO from infrared-radiofrequency double resonance. *Journal of Molecular Spectroscopy*, **1981**, 88, 372-377	1.3	22
109	Evolutionary algorithms to solve complicated NMR spectra. *Journal of Chemical Physics*, **2009**, 130, 044504	3.9	21
108	The structure of 4-methylphenol and its water cluster revealed by rotationally resolved UV spectroscopy using a genetic algorithm approach. *Journal of Chemical Physics*, **2005**, 123, 044304	3.9	21
107	Influence of the ac Stark effect on multiphoton transitions in molecules. *Journal of Chemical Physics* , **1989**, 90, 4681-4688	3.9	21
106	Observation of the lowest rotational transition of NH+ with resolved hyperfine structure. *Chemical Physics Letters*, **1986**, 132, 213-217	2.5	21
105	Rotational hyperfine spectrum of the NH radical around 1 THz. *Chemical Physics Letters*, **1982**, 92, 215-218	2.5	21
104	The Stark and Zeeman effects in methyl silane. *Journal of Molecular Spectroscopy*, **1982**, 93, 164-178	1.3	21
103	Scope and limitations of accurate structure determination of solutes dissolved in liquid crystals. *Journal of Physical Chemistry A*, **2010**, 114, 5878-87	2.8	20
102	Electronic excitation in the benzonitrile dimer: The intermolecular structure in the S0 and S1 state determined by rotationally resolved electronic spectroscopy. *Journal of Molecular Structure*, **2006**, 795, 234-241	3.4	20
101	Study of dark states in naphthalene, pyrimidine and pyrazine by detection of phosphorescence after UV laser excitation. *Chemical Physics*, **1989**, 135, 139-147	2.3	20
100	Internal rotation, Stark effect, and rotational magnetic moments in CH3CD3. *Canadian Journal of Physics*, **1984**, 62, 1844-1854	1.1	20
99	High-resolution cavity ringdown spectroscopy of the jet-cooled ethyl peroxy radical C2H5O2. *Journal of Chemical Physics*, **2009**, 131, 184303	3.9	19
98	Avoided-crossing molecular-beam study of the torsion-rotation energy levels of CH3CF3. *Chemical Physics*, **1991**, 152, 241-259	2.3	19
97	Laser-induced fluorescence imaging in a 100 kW natural gas flame. *Applied Physics B: Lasers and Optics*, **1992**, 55, 164-170	1.9	19

96	High resolution absorption spectrum of the molecular eigenstates of pyrazine. *Journal of Chemical Physics*, **1988**, 89, 3939-3944	3.9	19
95	The Zeeman spectrum of the NO molecule. *Journal of Molecular Spectroscopy*, **1980**, 82, 202-213	1.3	19
94	On the microwave spectrum of the X 2 state of the hydroxyl radical. *Chemical Physics Letters*, **1977**, 46, 24-28	2.5	19
93	Imaging and post-processing of laser-induced fluorescence from NO in a diesel engine. *Applied Physics B: Lasers and Optics*, **1997**, 64, 717-724	1.9	18
92	Stark effect and dipole moments of the ammonia dimer in different vibration Rotation Tunneling states. *Journal of Chemical Physics*, **1996**, 104, 3898-3906	3.9	18
91	The analysis of intensity fluctuations for a fully resolved spectrum: Pyrazine. *Journal of Chemical Physics*, **1988**, 88, 6810-6813	3.9	18
90	Molecular-beam electric-resonance study of cyanogen chloride (ClCN). *Chemical Physics*, **1980**, 45, 387-392	2.3	18
89	Determination of ground and excited state dipole moments via electronic Stark spectroscopy: 5-methoxyindole. *Journal of Chemical Physics*, **2016**, 144, 044201	3.9	18
88	Attenuation corrections for in-cylinder NO LIF measurements in a heavy-duty Diesel engine. *Applied Physics B: Lasers and Optics*, **2006**, 83, 155-166	1.9	17
87	Performance optimization of an external enhancement resonator for optical second-harmonic generation. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 1660	1.7	17
86	Internal rotation effects in the rotationally resolved S1(1Lb) <-S0 origin bands of 3-methylindole and 5-methylindole. *Journal of Chemical Physics*, **1998**, 108, 8436-8445	3.9	17
85	High-resolution laser-induced fluorescence and microwave-ultraviolet double resonance spectroscopy on 1-cyanonaphthalene. *Chemical Physics*, **1993**, 174, 247-253	2.3	17
84	The far-infrared rotational spectrum of the CF radical. *Chemical Physics Letters*, **1982**, 88, 59-62	2.5	17
83	High-resolution cavity ringdown spectroscopy of the jet-cooled propyl peroxy radical C(3)H(7)O(2). *Physical Chemistry Chemical Physics*, **2010**, 12, 4773-82	3.6	16
82	Structure determination of resorcinol rotamers by high-resolution UV spectroscopy. *ChemPhysChem*, **2005**, 6, 2129-36	3.2	16
81	Rotationally resolved spectroscopy of deuterated fluorene and the fluorene Argon van der Waals complex. *Chemical Physics Letters*, **1988**, 147, 7-12	2.5	16
80	Efficient analysis of highly complex nuclear magnetic resonance spectra of flexible solutes in ordered liquids by using molecular dynamics. *Journal of Chemical Physics*, **2012**, 136, 174506	3.9	15
79	Towards the complete experiment: measurement of S((1)D2) polarization in correlation with single rotational states of CO(J) from the photodissociation of oriented OCS(v2 = 1|JlM = 111). *Physical Chemistry Chemical Physics*, **2011**, 13, 8549-59	3.6	15

78	Rotational isomers of hydroxy deuterated o- and m-cresols studied by ultraviolet high resolution experiments. *Physical Chemistry Chemical Physics*, **2005**, 7, 2142-50	3.6	15
77	The use of extended permutation-inversion groups in constructing hyperfine Hamiltonians for symmetric-top internal rotor molecules like H3C?SiH3. *Journal of Molecular Spectroscopy*, **1991**, 146, 8-48	1.3	15
76	Far-infrared spectroscopy on OD+. *Chemical Physics Letters*, **1986**, 125, 286-289	2.5	15
75	The molecular beam electric resonance spectrum of OPF3. *Canadian Journal of Physics*, **1979**, 57, 1163-1173	1.3	15
74	Nuclear magnetic resonance study of alkane conformational statistics. *Journal of Chemical Physics*, **2011**, 135, 234506	3.9	14
73	EASY-GOING deconvolution: combining accurate simulation and evolutionary algorithms for fast deconvolution of solid-state quadrupolar NMR spectra. *Journal of Magnetic Resonance*, **2011**, 211, 114-20	2	14
72	How and why do transition dipole moment orientations depend on conformer structure?. *Journal of Physical Chemistry A*, **2011**, 115, 9612-9	2.8	14
71	Solute order parameters in liquid crystals from NMR spectra solved with evolutionary algorithms: Application of double Maier–Saupe–Kobayashi–McMillan theory. *Chemical Physics Letters*, **2009**, 476, 116-119	2.5	14
70	Avoided-crossing molecular-beam spectroscopy of CH3SiF3. *Chemical Physics*, **1982**, 71, 401-415	2.3	14
69	Rotational cooling in a speeded OCS beam. *Chemical Physics*, **1978**, 35, 253-258	2.3	14
68	Communication: molecular dynamics and (1)H NMR of n-hexane in liquid crystals. *Journal of Chemical Physics*, **2015**, 143, 011103	3.9	13
67	Towards the Detection of Explosive Taggants: Microwave and Millimetre-Wave Gas-Phase Spectroscopies of 3-Nitrotoluene. *ChemPhysChem*, **2018**, 19, 1056-1067	3.2	13
66	Laser-induced incandescence particle size measurements in a heavy-duty diesel engine. *Combustion and Flame*, **2006**, 145, 635-637	5.3	13
65	High-resolution spectroscopy of CF2Cl2 in a molecular jet. *Applied Physics B, Photophysics and Laser Chemistry*, **1988**, 45, 27-31		13
64	On the Additivity of Molecular Fragment Dipole Moments of 5-Substituted Indole Derivatives. *ChemPhysChem*, **2016**, 17, 2736-43	3.2	13
63	EASY-GOING DUMBO on-spectrometer optimisation of phase modulated homonuclear decoupling sequences in solid-state NMR. *Chemical Physics Letters*, **2011**, 509, 186-191	2.5	12
62	The butane condensed matter conformational problem. *Chemical Physics Letters*, **2010**, 496, 257-262	2.5	12
61	Rotationally resolved electronic spectroscopy of water clusters of 7-azaindole. *Journal of Chemical Physics*, **2008**, 128, 214311	3.9	12

60	A simple two-step automatic assignment procedure for complicated NMR spectra of solutes in liquid crystals using genetic algorithms. *Chemical Physics Letters*, **2007**, 441, 342-346	2.5	12
59	Absorption of NO laser-induced fluorescence by hot O2 and CO2. *Combustion and Flame*, **2006**, 144, 638-641	3.9	12
58	Vibrational and rotational effects on the intersystem crossing in pyrazine and pyrimidine. *Chemical Physics*, **1991**, 156, 197-207	2.3	12
57	Pyrimidine, an Intermediate State Molecule?. *Laser Chemistry*, **1986**, 5, 339-350		12
56	Analysis of the FTIR spectrum of pyrazine using evolutionary algorithms. *Journal of Molecular Spectroscopy*, **2009**, 257, 74-81	1.3	11
55	Accurate Frequencies Below 5 GHz of the Lower J States of OD. *Astrophysical Journal*, **1973**, 180, L93	4.7	11
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53	Internal rotation in 1,4-dimethylnaphthalene studied by high resolution laser spectroscopy. *Molecular Physics*, **1990**, 69, 265-280	1.7	10
52	Microwave anticrossing spectrum of ammonia. *Journal of Chemical Physics*, **1987**, 86, 2548-2556	3.9	10
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50	A model-free temperature-dependent conformational study of n-pentane in nematic liquid crystals. *Journal of Chemical Physics*, **2015**, 142, 024904	3.9	9
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48	Isomer-specific ultraviolet spectroscopy of m- and p-divinylbenzene. *Journal of Physical Chemistry A*, **2007**, 111, 3697-709	2.8	9
47	Structure of tetracene–argon and tetracene–krypton complexes from high resolution laser experiments at 450 nm. *Chemical Physics*, **2002**, 283, 371-377	2.3	9
46	High-resolution laser-induced fluorescence study of a cage molecule, 1,4-diazabicyclo [2,2,2] octane, DABCO. *Chemical Physics*, **1993**, 174, 267-276	2.3	9
45	Communication: Molecular gears. *Journal of Chemical Physics*, **2016**, 145, 091101	3.9	9
44	The conformational landscape of 5-methoxytryptamine studied by rotationally resolved fluorescence spectroscopy and resonant ionization spectroscopy. *Physical Chemistry Chemical Physics*, **2009**, 11, 2433-40	3.6	8
43	Gas-phase infrared spectroscopy on the lowest triplet state of the pyrazine–argon complex. *Chemical Physics Letters*, **2000**, 317, 197-202	2.5	8

42	High-resolution spectroscopy on the transition in SiCl2. *Journal of Molecular Spectroscopy*, **1989**, 138, 251-263	1.3	8
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40	Structure and barrier to internal rotation of 4-methylstyrene in the S0- and S1-state. *Journal of Molecular Structure*, **2005**, 742, 123-130	3.4	7
39	Internal rotation and Stark effect in CH3SiD3. *Journal of Chemical Physics*, **1998**, 109, 4823-4832	3.9	7
38	Rotationally resolved electronic spectroscopy of the rotamers of 1,3-dimethoxybenzene. *Physical Chemistry Chemical Physics*, **2017**, 19, 21364-21372	3.6	7
37	Excited-State Dipole Moments and Transition Dipole Orientations of Rotamers of 1,2-, 1,3-, and 1,4-Dimethoxybenzene. *ChemPhysChem*, **2018**, 19, 307-318	3.2	7
36	Excited state dipole moments of anisole in gas phase and solution. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 365, 213-219	4.7	6
35	Rotationally resolved electronic spectroscopy of 2,3-bridged indole derivatives: Tetrahydrocarbazole. *Journal of Molecular Structure*, **2011**, 993, 2-8	3.4	6
34	High resolution pulsed-cw double-resonance spectroscopy on the B1Σ+(v=0) ← A1Π(v=0) system of CO. *Chemical Physics Letters*, **1997**, 267, 127-131	2.5	6
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30	Analysis of high resolution FTIR spectra from synchrotron sources using evolutionary algorithms. *Journal of Molecular Spectroscopy*, **2015**, 315, 107-113	1.3	5
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