

# Trevor J Sears

## List of Publications by Citations

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185  
papers

4,788  
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39  
h-index

56  
g-index

206  
ext. papers

5,004  
ext. citations

3.1  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
185	Far infrared laser magnetic resonance of singlet methylene: Singlet-triplet perturbations, singlet-triplet transitions, and the singlet-triplet splitting(a). <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 5251-5264	3.9	260
184	A reduced form of the spin-rotation Hamiltonian for asymmetric-top molecules, with applications to HO <sub>2</sub> and NH <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>1979</b> , 75, 111-133	1.3	190
183	A theoretical study of the potential energy surface for the reaction OH+CO-H+CO <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>2001</b> , 349, 547-554	2.5	137
182	The rotational spectrum and hyperfine structure of the methylene radical CH <sub>2</sub> studied by far-infrared laser magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , <b>1982</b> , 77, 5348-5362	3.9	122
181	Ultra-broadband dual-comb spectroscopy across 1.0-1.9 μm. <i>Applied Physics Express</i> , <b>2015</b> , 8, 082402	2.4	96
180	Transient diode laser absorption spectroscopy of the $\bar{2}$ fundamental of trans-HOCO and DOCO. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 3996-4007	3.9	78
179	The EPR spectrum of the HO <sub>2</sub> radical and determination of ground state parameters. <i>Journal of Molecular Spectroscopy</i> , <b>1978</b> , 72, 86-101	1.3	74
178	Observation of the $\bar{2}$ fundamental band of HCO <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1984</b> , 81, 578-579	3.9	73
177	Diode laser absorption spectroscopy of D <sub>3</sub> O <sup>+</sup> : Determination of the equilibrium structure and potential function of the oxonium ion. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 2676-2685	3.9	70
176	ASYTOP - A program for detailed analysis of gas phase magnetic resonance spectra of asymmetric top molecules. <i>Computer Physics Communications</i> , <b>1984</b> , 34, 123-133	4.2	65
175	The laser magnetic resonance spectrum of the $\bar{2}$ band of the methylene radical CH <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1982</b> , 77, 5363-5369	3.9	58
174	The calculation of the energy levels of an asymmetric top free radical in a magnetic field. <i>Computer Physics Reports</i> , <b>1984</b> , 2, 1-32		56
173	Jahn-Teller distortions in C <sub>6</sub> H <sub>3</sub> F <sub>3</sub> <sup>+</sup> and C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 6070-6080	3.9	54
172	Analysis of the laser photoelectron spectrum of CH <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 4866-4876	3.9	53
171	Photodissociation of acetone at 193 nm: Rotational- and vibrational-state distributions of methyl fragments by diode laser absorption/gain spectroscopy. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 4182-4188	3.9	51
170	The rotational spectrum of trans-HOCO and DOCO. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 3989-3995	3.9	51
169	Renner-Teller, spin-orbit and Fermi-resonance interactions in X <sub>2</sub> NCS investigated by LIF spectroscopy. <i>Molecular Physics</i> , <b>1990</b> , 71, 45-64	1.7	51

168	The calculated $\tilde{\nu}$ (inversion) spectrum of H <sub>3</sub> O <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1986</b> , 84, 1312-1316	3.9	51
167	Photodissociation of Bromoform at 248 nm: Single and Multiphoton Processes. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1482-1488	2.8	50
166	Time-resolved frequency modulation spectroscopy of photochemical transients. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 1717-1720	3.9	47
165	Stimulated Emission Pumping: Applications to Highly Vibrationally Excited Transient Molecules. <i>Annual Review of Physical Chemistry</i> , <b>1992</b> , 43, 127-152	15.7	47
164	Near-infrared vibronic spectrum of the CH <sub>2</sub> b $1B_1 \leftarrow a\ 1A_1$ transition. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 9236-9245	3.9	45
163	Stimulated-emission pumping spectroscopy study of jet-cooled C <sub>3</sub> : pure bending levels and bend-symmetric-stretch combination levels of X $^1\Sigma^+$ . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1990</b> , 7, 1924	1.7	45
162	The Jahn-Teller effect in C <sub>6</sub> F <sup>+</sup> . <i>Journal of Chemical Physics</i> , <b>1981</b> , 74, 3240-3248	3.9	45
161	The isotopic dependence of the spin-rotation interaction for an asymmetric top molecule. <i>Molecular Physics</i> , <b>1980</b> , 41, 173-182	1.7	44
160	Frequency-modulation transient absorption spectrum of the HCl $X^1A_1(0,0,0) \leftarrow X^1A_1(0,0,0)$ transition. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 6347-6353	3.9	43
159	Infrared laser transient absorption spectroscopy of the ethyl radical. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 781-792	3.9	43
158	Observation of the $\tilde{\nu}$ band of CH <sub>2</sub> by laser magnetic resonance. <i>Journal of Chemical Physics</i> , <b>1981</b> , 75, 4731-4732	3.9	43
157	A determination of zeeman parameters for NO <sub>2</sub> in its ground state. <i>Molecular Physics</i> , <b>1977</b> , 34, 1595-1619	1.9	43
156	High resolution near-infrared electronic spectroscopy of HCB <sub>r</sub> . <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 2135-2140	3.9	42
155	b-dipole transitions in trans-HOCO observed by far infrared laser magnetic resonance. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 6624-6631	3.9	42
154	The rotational spectrum of the CD <sub>2</sub> radical studied by far infrared laser magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 1211-1219	3.9	42
153	The halocarbenes: model systems for understanding the spectroscopy, dynamics and chemistry of carbenes. <i>International Reviews in Physical Chemistry</i> , <b>2009</b> , 28, 435-480	7	41
152	The detection of vinyl cyanide in TMC-1. <i>Astrophysical Journal</i> , <b>1983</b> , 272, 149	4.7	41
151	Near-Infrared Spectroscopy of Bromomethylene in a Slit-Jet Expansion. <i>Journal of Molecular Spectroscopy</i> , <b>2000</b> , 202, 131-143	1.3	40

150	Extended measurements of the $\bar{\nu}$ band of CD <sub>3</sub> and the determination of the vibrational potential function for methyl. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 2125-2133	3.9	40
149	Measurement of the Renner-Teller effect in X <sup>2</sup> $\Sigma^+$ CO <sub>2</sub> + by diode laser absorption. <i>Molecular Physics</i> , <b>1987</b> , 62, 919-937	1.7	40
148	Laser-induced fluorescence spectroscopy of NCS in a free jet expansion. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 762-774	3.9	39
147	Dissociation of CD <sub>3</sub> I at 248 nm studied by diode laser absorption spectroscopy. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 6234-6242	3.9	39
146	Observation of the $\nu_2$ band of CO <sub>2</sub> + by diode laser absorption. <i>Molecular Physics</i> , <b>1986</b> , 59, 259-274	1.7	38
145	The infra-red L.M.R. spectrum of SeH in the X <sup>2</sup> $\Sigma^+$ state. <i>Molecular Physics</i> , <b>1979</b> , 37, 1837-1848	1.7	38
144	Experimental and theoretical studies of the near-infrared spectrum of bromomethylene. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 5433-5444	3.9	37
143	Stimulated emission pumping spectroscopy of CH <sub>3</sub> O (X <sup>2</sup> E, $\bar{B}$ ): New observations on the Jahn-Teller effect. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 4297-4300	3.9	37
142	Gas-phase emission spectra of supercooled organic ions. <i>The Journal of Physical Chemistry</i> , <b>1980</b> , 84, 3154-3156		37
141	Kinetics and Product Study of the Reaction of CH <sub>3</sub> Radicals with O(3P) Atoms Using Time Resolved Time-of-Flight Spectrometry. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 5722-5731	2.8	36
140	Avoided crossings in the far-infrared laser magnetic resonance spectrum of HCO. <i>Journal of Molecular Spectroscopy</i> , <b>1991</b> , 148, 20-37	1.3	36
139	A semirigid bender analysis of an extensive set of rotation-vibration levels in. <i>Journal of Molecular Spectroscopy</i> , <b>1991</b> , 145, 74-88	1.3	36
138	The laser magnetic resonance spectrum of the $\bar{\nu}$ band of NH <sub>2</sub> . <i>Journal of Molecular Spectroscopy</i> , <b>1980</b> , 81, 60-72	1.3	36
137	Laser Transient Absorption Spectroscopy of Bromomethylene. <i>Journal of Molecular Spectroscopy</i> , <b>1998</b> , 188, 68-77	1.3	35
136	Rotationally Resolved Near-Infrared Spectrum of the HCCI $\bar{A}^1 \leftarrow X^1 A'$ Transition. <i>Journal of Molecular Spectroscopy</i> , <b>1995</b> , 173, 391-403	1.3	35
135	The laser magnetic resonance spectrum of the NCO radical at 5.2 $\mu$ m. <i>Journal of Molecular Spectroscopy</i> , <b>1982</b> , 92, 485-496	1.3	35
134	Detection of the J = 1 - 0 transition of CH <sub>3</sub> CN. <i>Astrophysical Journal</i> , <b>1983</b> , 267, L53	4.7	34
133	Energy transfer from highly vibrationally excited azulene and azulene-d <sub>8</sub> to carbon dioxide. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 2015-2022	3.9	33

132	Observation of stimulated emission pumping spectra of jet-cooled NCS and C3. <i>Chemical Physics Letters</i> , <b>1989</b> , 159, 421-425	2.5	32
131	Axis-Switching and Coriolis Coupling in the $\nu_1(\nu_2)$ (000) Transitions of DCCL and HCCL. <i>Journal of Molecular Spectroscopy</i> , <b>2002</b> , 214, 216-224	1.3	31
130	Infrared diode laser spectroscopy of the $\nu_2(2+ \leftarrow 1)$ band of H3O+. <i>Chemical Physics</i> , <b>1986</b> , 108, 335-341	2.3	30
129	Diode laser spectroscopy of the $\nu_2$ band of CD3. <i>Journal of Chemical Physics</i> , <b>1988</b> , 88, 5300-5306	3.9	30
128	Emission spectra in a supersonic expansion: the quartet system of NO and the Schlierer band of ND4. <i>Chemical Physics Letters</i> , <b>1985</b> , 113, 129-134	2.5	30
127	Low temperature gas phase and matrix studies of the C6H3F3+ and C6H3Cl3+ radical cations. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 2063-2068	3.9	30
126	Mid-Infrared Diode Laser Spectroscopy of X ; 1 A ' HC35 Cl. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 183, 341-6	1.3	29
125	A reinterpretation of the CH $\nu_2$ photoelectron spectrum. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 5265-5271	3.9	29
124	High-Resolution Infrared Diode Laser Spectroscopy of CBr. <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 184, 413-433	1.3	28
123	Near-infrared spectroscopy of CH2 by frequency modulated diode laser absorption. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 3431-3442	3.9	28
122	Infrared and far-infrared laser magnetic resonance spectroscopy of the GeH radical: Determination of ground state parameters. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 3275-3284	3.9	28
121	Observation of the $\nu_2$ (bending) fundamental of the HN $_2^+$ ion at 146 micrometers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1985</b> , 2, 786	1.7	28
120	Interstellar molecular line searches at 1.5 centimeters. <i>Astrophysical Journal</i> , <b>1986</b> , 300, 766	4.7	28
119	What is the best DFT functional for vibronic calculations? A comparison of the calculated vibronic structure of the S1-S0 transition of phenylacetylene with cavity ringdown band intensities. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 6750-8	2.8	26
118	Infrared spectrum of the CH2 out-of-plane fundamental of C2H5. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 9213-9221	3.9	26
117	Study of Renner-Teller, spin-orbit, and Fermi-resonance interactions in X $2^-(v_1v_2)$ levels of NCO by stimulated emission pumping spectroscopy. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 4583-4595	3.9	26
116	Measurement of (00v3) levels in X $2^-$ NCO by stimulated emission pumping spectroscopy. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 7218-7228	3.9	26
115	Laser magnetic resonance spectrum of $^{13}\text{CH}_2$ around 11 $\mu\text{m}$ : determination of $^{13}\text{C}$ hyperfine interactions and $\nu_2$ isotope shift for methylene. <i>Canadian Journal of Physics</i> , <b>1983</b> , 61, 480-488	1.1	26

114	Laser excitation and emission spectra of the hexafluorobenzene cation in the gas phase. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 326-329	16.4	26
113	Frequency-comb referenced spectroscopy of $\nu_4$ - and $\nu_5$ -excited hot bands in the 1.5 $\mu\text{m}$ spectrum of $\text{C}_2\text{H}_2$ . <i>Journal of Molecular Spectroscopy</i> , <b>2015</b> , 316, 64-71	1.3	24
112	Hot bands in the spectrum of $\text{HCBr}$ . <i>Journal of Molecular Spectroscopy</i> , <b>2003</b> , 219, 136-144	1.3	24
111	A K-dependent adiabatic approximation to the Renner-Teller effect for triatomic molecules. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1435-1442	3.9	24
110	The free jet cooled, laser induced fluorescence spectrum of sym-triazine. <i>Journal of Chemical Physics</i> , <b>1981</b> , 75, 5271-5279	3.9	24
109	Repetitively sampled time-of-flight mass spectrometry for gas-phase kinetics studies. <i>Review of Scientific Instruments</i> , <b>1999</b> , 70, 3259-3264	1.7	23
108	Photodissociation of $\text{RNCS}$ and $\text{RSCN}$ ( $\text{R}=\text{H}, \text{CH}_3, \text{C}_2\text{H}_5$ ): Evidence for an excited state isomerization and energy deposition in the $\text{NCS}$ product. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2337-2345	3.9	23
107	$\text{CN}$ radical reaction rate measurements by time-resolved FM spectroscopy <b>1997</b> , 29, 127-129		22
106	Vibronic Reassignment of the $\nu_1\text{A}''$ . <i>Journal of Molecular Spectroscopy</i> , <b>1999</b> , 195, 367-370	1.3	22
105	Infrared diode laser spectroscopy of the $\nu_1$ fundamental of the $\text{CD}_3$ radical. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 7021-7026	3.9	22
104	Infrared rotational transitions in $\text{CH}_2$ X $3\text{B}_1$ observed by diode laser absorption. <i>Journal of Chemical Physics</i> , <b>1986</b> , 85, 3711-3715	3.9	22
103	The laser magnetic resonance spectrum of the $\nu_3$ band of $\text{HSO}$ at 10 $\mu\text{m}$ . <i>Molecular Physics</i> , <b>1983</b> , 49, 25-32	1.7	22
102	Frequency comb-referenced measurements of self- and nitrogen-broadening in the $\nu_1+\nu_2$ band of acetylene. <i>Journal of Molecular Spectroscopy</i> , <b>2011</b> , 266, 43-51	1.3	21
101	High-Resolution Infrared Diode Laser Spectroscopy of $\text{X}_2\text{CCl}$ . <i>Journal of Molecular Spectroscopy</i> , <b>1997</b> , 182, 189-194	1.3	21
100	Hot bands in jet-cooled and ambient temperature spectra of chloromethylene. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 74314	3.9	20
99	Infrared absorption spectroscopy of molecular ions using tunable lasers. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1987</b> , 83, 111		20
98	Near-Infrared High Resolution Diode Laser Spectrum of the $\text{CH}_2$ $\nu_1\text{B}_1$ . <i>Journal of Molecular Spectroscopy</i> , <b>1998</b> , 187, 119-25	1.3	19
97	State-resolved thermalization of singlet and mixed singlet-triplet states of $\text{CH}_2$ . <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 084308	3.9	19

96	The E3 <sub>3</sub> 3 <sub>1</sub> Transition of Jet-Cooled TiO Observed in Absorption. <i>Journal of Molecular Spectroscopy</i> , <b>2002</b> , 212, 133-141	1.3	19
95	Vibrational effects on the torsional motion of ethyl radical. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 9222-9226	3.9	19
94	Vacuum ultra-violet photoelectron spectroscopy of transient species. Part 6. A study of vibrationally excited hydrogen and nitrogen. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1976</b> , 72, 597-603		19
93	Ortho-Para-Dependent Pressure Effects Observed in the Near Infrared Band of Acetylene by Dual-Comb Spectroscopy. <i>Physical Review Letters</i> , <b>2016</b> , 117, 143902	7.4	19
92	The calculation of vibrational intensities in forbidden electronic transitions. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 164330	3.9	18
91	Rotationally resolved spectrum of the A(060) <sub>g</sub> (000) band of HCl. <i>Journal of Molecular Spectroscopy</i> , <b>2006</b> , 235, 125-131	1.3	18
90	Absorption Spectroscopy of Singlet CH <sub>2</sub> near 9500 cm <sup>-1</sup> . <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 10119-10124	2.8	18
89	Laser induced fluorescence study of the B <sub>2</sub> B <sub>2</sub> -X <sub>2</sub> A <sub>2</sub> transition of the furan cation in a supersonic free jet expansion. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 4435-4446	3.9	18
88	Temperature-dependent pressure broadened line shape measurements in the $\pi^* + \pi$ band of acetylene using a diode laser referenced to a frequency comb. <i>Applied Physics B: Lasers and Optics</i> , <b>2012</b> , 109, 373-384	1.9	17
87	Potential energy surfaces and vibrational energy levels of DCI and HCl in three low-lying states. <i>Molecular Physics</i> , <b>2006</b> , 104, 47-53	1.7	17
86	Observation of the c1A <sub>1</sub> state of methylene by optical-optical double resonance. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 24306	3.9	17
85	Vibrational energy levels of methyl cation. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 666-669	3.9	17
84	Application of the Hartmann-Ran profile to precise experimental data sets of 12C <sub>2</sub> H <sub>2</sub> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2015</b> , 165, 28-37	2.1	16
83	Laser-induced fluorescence spectroscopy of the jet-cooled HNCN radical. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 615		16
82	V <sub>v</sub> energy transfer from highly vibrationally excited azulene to CO <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 6049-6050	3.9	16
81	Characterization of the ground X <sub>1</sub> state of 204Pb19F, 206Pb19F, 207Pb19F, and 208Pb19F. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	15
80	Transient frequency modulation absorption spectroscopy of molecules produced in a laser ablation supersonic expansion source. <i>Chemical Physics Letters</i> , <b>2000</b> , 319, 363-367	2.5	15
79	Far-Infrared Laser Magnetic Resonance Spectroscopy of CH <sub>2</sub> Cl (X 2B <sub>1</sub> ). <i>Journal of Molecular Spectroscopy</i> , <b>1994</b> , 168, 136-146	1.3	15

78	Far-infrared laser magnetic resonance of vibrationally excited CD <sub>2</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1984</b> , 1, 15	1.7	15
77	Selectively excited, wavelength resolved emission spectra of gaseous organic ions. <i>Journal of Chemical Physics</i> , <b>1980</b> , 72, 6749-6754	3.9	15
76	The absence of interstellar HCCO and the Bates dissociative recombination theory. <i>Astrophysical Journal</i> , <b>1989</b> , 340, 900	4.7	15
75	Sub-Doppler laser absorption spectroscopy of the A <sup>2</sup> Π <sub>g</sub> -X <sup>2</sup> Π <sub>g</sub> (1, 0) band of CN: Measurement of the <sup>14</sup> N hyperfine parameters in A <sup>2</sup> Π <sub>g</sub> CN. <i>Journal of Molecular Spectroscopy</i> , <b>2009</b> , 253, 122-128	1.3	14
74	Detection of the bending fundamental band of DN <sub>2</sub> by diode laser absorption spectroscopy. <i>Journal of Chemical Physics</i> , <b>1985</b> , 82, 5757-5758	3.9	14
73	The Zeeman Effect on Lines in the (1,0) Band of the F <sub>4</sub> -F <sub>4</sub> Transition of the FeH Radical. <i>Astrophysical Journal</i> , <b>2008</b> , 679, 854-861	4.7	13
72	Doppler-Resolved Spectroscopy as an Assignment Tool in the Spectrum of Singlet Methylene. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 7922-7927	2.8	13
71	Far-Infrared Laser Magnetic Resonance of X <sup>2</sup> A <sub>1</sub> trans-DOCO. <i>Journal of Molecular Spectroscopy</i> , <b>1994</b> , 165, 137-149	1.3	13
70	The microwave spectrum of the FO <sub>2</sub> radical. <i>Molecular Physics</i> , <b>1989</b> , 67, 1033-1051	1.7	13
69	Photodissociation of RNCS and RSCN (R=H, CH <sub>3</sub> , C <sub>2</sub> H <sub>5</sub> ) at 248 and 193 nm: CN product energy distributions. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2346-2356	3.9	13
68	Detection of the N = 1 - 0 transition of C <sub>4</sub> H. <i>Astrophysical Journal</i> , <b>1982</b> , 255, L75	4.7	13
67	Vibronic analysis of the S <sub>1</sub> -S <sub>0</sub> transition of phenylacetylene using photoelectron imaging and spectral intensities derived from electronic structure calculations. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 8262-70	2.8	12
66	Precision spectroscopy of the Pb <sup>207</sup> F <sup>19</sup> molecule: Implications for measurement of P-odd and T-odd effects. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	12
65	Transient frequency-modulation absorption spectroscopy of free radicals in supersonic free jet expansions. <i>Chemical Physics Letters</i> , <b>1996</b> , 256, 288-292	2.5	12
64	Stimulated emission pumping spectroscopy of 2 <sup>1</sup> and 2 <sup>3</sup> vibronic levels in [Xtilde](v <sub>1</sub> v <sub>2</sub> ) 2 <sup>1</sup> NCO. <i>Molecular Physics</i> , <b>1994</b> , 82, 503-521	1.7	12
63	Rotational populations in OD formed in the reaction O(1D)+D <sub>2</sub> investigated by infrared rotational absorption spectroscopy. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 5201-5207	3.9	12
62	Infrared and far-infrared transition frequencies for the CH <sub>2</sub> radical. <i>Astrophysical Journal</i> , <b>1984</b> , 276, 399	4.7	12
61	Temperature-dependent, nitrogen-perturbed line shape measurements in the ̄ + ̄ band of acetylene using a diode laser referenced to a frequency comb. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 13908-18	2.8	11

60	Observation of the state of CH <sub>2</sub> by optical-optical double resonance. <i>Journal of Molecular Spectroscopy</i> , <b>2006</b> , 240, 269-271	1.3	11
59	Hot band spectroscopy of DCBr near 0.96 $\mu$ m. <i>Molecular Physics</i> , <b>1999</b> , 97, 185-193	1.7	11
58	Measurement of the $\beta$ fundamental transition moment and vibrational relaxation rates of the CD <sub>3</sub> radical. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7889-7895	3.9	11
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