

# Kevin K Lehmann

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178  
papers

6,947  
citations

49  
h-index

75  
g-index

187  
ext. papers

7,325  
ext. citations

4.1  
avg. IF

5.83  
L-index

#	Paper	IF	Citations
178	Two-photon absorption line shapes in the transit-time limit. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 104105	1.5	1
177	Measurement and assignment of double-resonance transitions to the 8900-100-cm <sup>-1</sup> levels of methane. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	5
176	Sub-Doppler Double-Resonance Spectroscopy of Methane Using a Frequency Comb Probe. <i>Physical Review Letters</i> , <b>2021</b> , 126, 063001	7.4	4
175	Doppler-free two-photon cavity ring-down spectroscopy of a nitrous oxide (N <sub>2</sub> O) vibrational overtone transition. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	12
174	Optical cavity with intracavity two-photon absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 3055	1.7	3
173	Resonance enhanced two-photon cavity ring-down spectroscopy of vibrational overtone bands: A proposal. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 144201	3.9	10
172	Step-modulated decay cavity ring-down detection for double resonance spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 29086-29098	3.3	8
171	Influence of spatial degeneracy on rotational spectroscopy: Three-wave mixing and enantiomeric state separation of chiral molecules. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 094201	3.9	22
170	Theory of Enantiomer-Specific Microwave Spectroscopy <b>2018</b> , 713-743		3
169	The gas-phase structure of the asymmetric, trans-dinitrogen tetroxide (NO), formed by dimerization of nitrogen dioxide (NO <sub>2</sub> ), from rotational spectroscopy and ab initio quantum chemistry. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 134305	3.9	9
168	Influence of resonant collisions on the self-broadening of acetylene. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 094309	3.9	3
167	Hydrogen Isotopic Composition of Arctic and Atmospheric CH <sub>4</sub> Determined by a Portable Near-Infrared Cavity Ring-Down Spectrometer with a Cryogenic Pre-Concentrator. <i>Astrobiology</i> , <b>2016</b> , 16, 787-797	3.7	2
166	Detection of S-nitroso compounds by use of midinfrared cavity ring-down spectroscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3345-53	7.8	3
165	Lightweight Raman spectroscope using time-correlated photon-counting detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 12315-20	11.5	10
164	Molecular Structure and Chirality Detection by Fourier Transform Microwave Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 196-200	6.4	56
163	Near infrared cavity ring-down spectroscopy for isotopic analyses of CH <sub>4</sub> on future Martian surface missions. <i>Planetary and Space Science</i> , <b>2015</b> , 105, 117-122	2	21
162	Theoretical detection limit of saturated absorption cavity ring-down spectroscopy (SCAR) and two-photon absorption cavity ring-down spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 116, 147-155	1.9	13

161	A high-finesse broadband optical cavity using calcium fluoride prism retroreflectors. <i>Optics Express</i> , <b>2014</b> , 22, 11583-91	3.3	8
160	Measurements of CH <sub>3</sub> D line strengths, foreign pressure-broadening, and pressure-shift coefficients at near-IR region using continuous-wave cavity ring-down spectroscopy. <i>Journal of Molecular Spectroscopy</i> , <b>2013</b> , 291, 48-56	1.3	5
159	Measurement of the <sup>13</sup> C/ <sup>12</sup> C of atmospheric CH <sub>4</sub> using near-infrared (NIR) cavity ring-down spectroscopy. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 11250-7	7.8	21
158	Sensitivity limits of continuous wave cavity ring-down spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 13399-411	2.8	15
157	Extended line positions, intensities, empirical lower state energies and quantum assignments of NH <sub>3</sub> from 6300 to 7000cm <sup>-1</sup> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2012</b> , 113, 1066-1083	2.1	66
156	A rigid, monolithic but still scannable cavity ring-down spectroscopy cell. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 043115	1.7	9
155	Sensitivity limit of rapidly swept continuous wave cavity ring-down spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 9411-21	2.8	10
154	Long-term stability in continuous wave cavity ringdown spectroscopy experiments. <i>Applied Optics</i> , <b>2010</b> , 49, 1378-87	0.2	41
153	(HCN)(m)-M(n) (M = K, Ca, Sr): vibrational excitation induced solvation and desolvation of dopants in and on helium nanodroplets. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3391-402	2.8	18
152	Orienting molecules via an ir and uv pulse pair: Implications for coherent Raman spectroscopy. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	8
151	Noise caused by a finite extinction ratio of the light modulator in CW cavity ring-down spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 94, 355-366	1.9	25
150	Brewster angle prism retroreflectors for cavity enhanced spectroscopy. <i>Applied Optics</i> , <b>2009</b> , 48, 2966-78.2		12
149	Optimal Signal Processing in Cavity Ring-Down Spectroscopy <b>2009</b> , 623-658		10
148	Effects of linear birefringence and polarization-dependent loss of supermirrors in cavity ring-down spectroscopy. <i>Applied Optics</i> , <b>2008</b> , 47, 3817-27	0.2	24
147	Cavity enhanced absorption spectroscopy using a broadband prism cavity and a supercontinuum source. <i>Optics Express</i> , <b>2008</b> , 16, 15013-23	3.3	42
146	Electronic spectroscopy of benzo[g,h,i]perylene and coronene inside helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 1648-57	3.6	19
145	CAVITY RING-DOWN BIOSENSING <b>2008</b> , 403-418		1
144	CW cavity ring-down spectroscopy (CRDS) with a semiconductor optical amplifier as intensity modulator. <i>Chemical Physics Letters</i> , <b>2008</b> , 463, 246-250	2.5	15

143	Electronic spectroscopy of biphenylene inside helium nanodroplets. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 7624-30	2.8	8
142	Squeezing a helium nanodroplet with a Rydberg electron. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 12695-701	2.8	20
141	Electronic spectroscopy of nonalternant hydrocarbons inside helium nanodroplets. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 12200-9	2.8	13
140	Lorentzian line shape due to an inhomogeneous size distribution without relaxation. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 024108	3.9	14
139	Noise in cavity ring-down spectroscopy caused by transverse mode coupling. <i>Optics Express</i> , <b>2007</b> , 15, 8745-59	3.3	37
138	Highly excited vibrational states of HCN around 30 000 cm <sup>-1</sup> . <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 174306	3.9	4
137	Martian CH(4): sources, flux, and detection. <i>Astrobiology</i> , <b>2006</b> , 6, 377-95	3.7	74
136	Spectroscopy and dynamics in helium nanodroplets. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2006</b> , 39, R127-R166	1.3	349
135	Near-infrared spectroscopy of ethylene and ethylene dimer in superfluid helium droplets. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 104307	3.9	15
134	Thermodynamic and noise considerations for the detection of microscopic particles in a gas by photoacoustic Raman spectroscopy. <i>Optics Communications</i> , <b>2005</b> , 246, 551-559	2	11
133	Gain-swept superradiance applied to the stand-off detection of trace impurities in the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 7806-11	11.5	49
132	Helium nanodroplet isolation spectroscopy of perylene and its complexes with oxygen. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 6792-3	3.9	17
131	Spectroscopy of highly excited vibrational states of HCN in its ground electronic state. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 691-703	3.9	10
130	Evaporative cooling of helium nanodroplets with angular momentum conservation. <i>Physical Review Letters</i> , <b>2004</b> , 92, 173401	7.4	31
129	Bias in the temperature of helium nanodroplets measured by an embedded rotor. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 513-5	3.9	9
128	UV spectra of benzene isotopomers and dimers in helium nanodroplets. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 2701-10	3.9	32
127	Computer-generated character tables and nuclear spin statistical weights: application to benzene dimer and methane dimer. <i>Journal of Molecular Spectroscopy</i> , <b>2004</b> , 226, 201-202	1.3	12
126	Evanescent field absorption in a passive optical fiber resonator using continuous-wave cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , <b>2004</b> , 383, 297-303	2.5	80

125	Single-cell detection by cavity ring-down spectroscopy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4523	3.4	59
124	Cavity ringdown strain gauge. <i>Optics Letters</i> , <b>2004</b> , 29, 1339-41	3	49
123	William A. Klemperer Special Issue. <i>Journal of Molecular Spectroscopy</i> , <b>2003</b> , 222, 1-3	1.3	
122	Trace moisture detection using continuous-wave cavity ring-down spectroscopy. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4599-605	7.8	75
121	Energetics and possible formation and decay mechanisms of vortices in helium nanodroplets. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	28
120	Intramolecular vibrational relaxation in aromatic molecules. 2: An experimental and computational study of pyrrole and triazine near the IVR threshold. <i>Molecular Physics</i> , <b>2003</b> , 101, 551-568	1.7	25
119	Microcanonical thermodynamic properties of helium nanodroplets. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 3336-3342	3.9	14
118	Calculation of hydrodynamic mass for atomic impurities in helium. <i>Physical Review Letters</i> , <b>2002</b> , 88, 1453-01	3.0	12
117	Quantum hydrodynamic model for the enhanced moments of inertia of molecules in helium nanodroplets: Application to SF <sub>6</sub> . <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 1595-1603	3.9	27
116	Helium nanodroplet isolation rovibrational spectroscopy: Methods and recent results. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 10090	3.9	316
115	Spontaneous coherent microwave emission and the sawtooth instability in a compact storage ring. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2001</b> , 4,		29
114	Rotation in liquid 4He: Lessons from a highly simplified model. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 4643	3.9	35
113	Dynamics of the 1 3 pi g state of K <sub>2</sub> on helium nanodroplets. <i>Faraday Discussions</i> , <b>2001</b> , 33-42; discussion 43-62	3.6	16
112	Photoinduced nonadiabatic dynamics in quartet Na <sub>3</sub> and K <sub>3</sub> formed using helium nanodroplet isolation. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 10265	3.9	47
111	Spectroscopy of Mg atoms solvated in helium nanodroplets. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 8409-8416	3.9	69
110	First overtone helium nanodroplet isolation spectroscopy of molecules bearing the acetylenic CH chromophore. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 10535-10550	3.9	72
109	Alkali-helium exciplex formation on the surface of helium nanodroplets. II. A time-resolved study. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9694-9701	3.9	73
108	A sub-Doppler resolution double resonance molecular beam infrared spectrometer operating at chemically relevant energies (~2 eV). <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 4032	1.7	3

107	Microwave spectra of HCN and DCN in 4He nanodroplets: A test of adiabatic following. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 4840	3.9	70
106	Finite size effects and rotational relaxation in superfluid helium nanodroplets: Microwave-infrared double-resonance spectroscopy of cyanoacetylene. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 4636-4646	3.9	73
105	Buoyancy corrections for the potential of an impurity in a 4He nanodroplet. <i>Molecular Physics</i> , <b>2000</b> , 98, 1991-1993	1.7	7
104	Alkali-helium exciplex formation on the surface of helium nanodroplets. I. Dispersed emission spectroscopy. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9686-9693	3.9	68
103	Rovibrational spectroscopy of the $v=6$ manifold in $^{12}\text{C}_2\text{H}_2$ and $^{13}\text{C}_2\text{H}_2$ . <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 7376-7383	3.9	21
102	Doppler-free nonlinear absorption in ethylene by use of continuous-wave cavity ringdown spectroscopy. <i>Applied Optics</i> , <b>2000</b> , 39, 3154-64	1.7	39
101	MOLECULAR SPECTROSCOPY: Nanomatrices Are Cool. <i>Science</i> , <b>2000</b> , 287, 2429-2430	33.3	49
100	Intramolecular vibrational redistribution in aromatic molecules. I. Eigenstate resolved CH stretch first overtone spectra of benzene. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 10583-10596	3.9	52
99	Spectroscopy and Dynamics of Al Atoms Solvated in Superfluid Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 3620-3626	2.8	22
98	On the importance of exchange effects in three-body interactions: The lowest quartet state of $\text{Na}_3$ . <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 5751-5761	3.9	52
97	Single and Double Resonance Microwave Spectroscopy in Superfluid $^4\text{He}$ Clusters. <i>Physical Review Letters</i> , <b>1999</b> , 82, 5036-5039	7.4	52
96	Superfluid Hydrodynamic Model for the Enhanced Moments of Inertia of Molecules in Liquid $^4\text{He}$ . <i>Physical Review Letters</i> , <b>1999</b> , 83, 5058-5061	7.4	108
95	Eigenstate resolved infrared and millimeter-wave infrared double resonance spectroscopy of methylamine in the $\text{NH}$ stretch first overtone region. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 2427-2433	3.6	19
94	Potential of a neutral impurity in a large $^4\text{He}$ cluster. <i>Molecular Physics</i> , <b>1999</b> , 97, 645-666	1.7	115
93	Dispersion and Cavity-Ringdown Spectroscopy. <i>ACS Symposium Series</i> , <b>1999</b> , 106-124	0.4	6
92	Vibrationally mediated photodissociation of HCN. <i>Chemical Physics Letters</i> , <b>1998</b> , 294, 173-180	2.5	14
91	SUPERFLUID HELIUM: The Ultimate Spectroscopic Matrix?. <i>Science</i> , <b>1998</b> , 279, 2065-2066	33.3	127
90	Inversion of absorption spectral data for relaxation matrix determination. I. Application to line mixing in the $106\leftarrow 000$ overtone transition of HCN. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 392-401	3.9	3

89	Molecular Beam Infrared Spectrum of Nitromethane in the Region of the First C-H Stretching Overtone. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 9124-9128	2.8	10
88	Spin-orbit effects in the formation of the NaHe excimer on the surface of He clusters. <i>Faraday Discussions</i> , <b>1997</b> , 108, 161-174	3.6	67
87	Chromophore dependence of intramolecular vibrational relaxation: Si-H stretch second overtone versus C-H stretch first overtone in methylsilane. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 6549-6561	3.9	11
86	Eigenstate resolved infrared-infrared double-resonance study of intramolecular vibrational relaxation in benzene: First overtone of the CH stretch. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 432-435	3.9	53
85	Photoinduced Chemical Dynamics of High-Spin Alkali Trimers. <i>Science</i> , <b>1996</b> , 273, 629-31	33.3	148
84	The superposition principle and cavity ring-down spectroscopy. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 10263-10277	3.9	142
83	High-Resolution Spectrum of the 3-1 Band of Cyanoacetylene Obtained via Infrared/Infrared Double Resonance. <i>Journal of Molecular Spectroscopy</i> , <b>1996</b> , 175, 198-202	1.3	9
82	Line-mixing in the 106<-000 overtone transition of HCN. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 81-88	3.9	15
81	Molecular beam infrared spectroscopy of the HCCN-CH and HCN-CCCCH van der Waals complexes. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 10725-10733	3.9	7
80	Spin Polarized Alkali Clusters: Observation of Quartet States of the Sodium Trimer. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4532-4535	7.4	83
79	Calculation of the Herman-Wallis effect in vibrational overtone transitions in a linear molecule: Comparison with HCN experimental results. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 68-80	3.9	14
78	The intramolecular dynamics of allene in the region around 6000 cm <sup>-1</sup> via eigenstate resolved IR spectroscopy. <i>Chemical Physics</i> , <b>1995</b> , 190, 393-405	2.3	5
77	Cavity ring-down overtone spectroscopy of HCN, H <sup>13</sup> CN and HC <sup>15</sup> N. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 633-642	3.9	67
76	Microwave detected, microwave-optical double resonance of NH <sub>3</sub> , NH <sub>2</sub> D, NHD <sub>2</sub> , and ND <sub>3</sub> . II. Predissociation dynamics of the $\nu_2$ state. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 4783-4792	3.9	36
75	Microwave detected, microwave-optical double resonance of NH <sub>3</sub> , NH <sub>2</sub> D, NHD <sub>2</sub> , and ND <sub>3</sub> . I. Structure and force field of the $\nu_2$ state. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 4772-4782	3.9	34
74	Reinvestigation of the 2v <sub>1</sub> Band in Trifluoropropyne using a Frequency Stabilized 1.5 $\mu$ m Color Center Laser in Conjunction with a Laser Field Build-up Cavity. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1995</b> , 99, 548-554		9
73	Intramolecular vibrational dynamics of diacetylene and diacetylene-d <sub>1</sub> via eigenstate-resolved overtone spectroscopy. <i>Chemical Physics</i> , <b>1995</b> , 190, 191-205	2.3	17
72	Experimental Measurement of Weak Band Intensities. <i>International Astronomical Union Colloquium</i> , <b>1994</b> , 146, 366-375		

71	Long-Range, Resonant Vibrational Energy Exchange in Polyatomic Molecules: The Fundamental Acetylenic CH Stretching Spectrum of CH <sub>3</sub> Si(C≡C) <sub>2</sub> . <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 5614-5617		6
70	Eigenstate resolved infrared/infrared double resonance spectroscopy of the 3 $\mu$ overtone band of 1-propyne: Intramolecular vibrational energy redistribution into a Coriolis-coupled bath. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 2612-2622	3.9	73
69	Hierarchical structure in the 3 $\mu$ band of propyne. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 2642-2643	3.9	10
68	Reinvestigation of the acetylenic C $\equiv$ H stretching fundamental of propyne via high resolution, optothermal infrared spectroscopy: Nonresonant perturbations to $\nu_1$ . <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 2588-2595	3.9	44
67	Sub-Doppler, infrared laser spectroscopy of the propyne 2 $\mu$ band: Evidence of z-axis Coriolis dominated intramolecular state mixing in the acetylenic CH stretch overtone. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 2596-2611	3.9	68
66	Molecular beam infrared spectroscopy and intramolecular dynamics of SF <sub>5</sub> CCH in the region of the fundamental and first overtone of the acetylenic CH stretch. <i>Chemical Physics</i> , <b>1994</b> , 187, 11-19	2.3	4
65	Intramolecular Dynamics from Eigenstate-Resolved Infrared Spectra. <i>Annual Review of Physical Chemistry</i> , <b>1994</b> , 45, 241-274	15.7	349
64	Experimental measurement of weak band intensities <b>1994</b> , 366-375		1
63	Influence of methyl group deuteration on the rate of intramolecular vibrational energy relaxation. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 1116-1122	3.9	59
62	Can molecules have permanent electric dipole moments?. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 2413-2416		18
61	Reinvestigation of the HCP electronic spectrum: Experimental determination of D <sub>0</sub> for the X state and observation of hyperfine quantum beats in the B state. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 5184-5190	3.9	12
60	Enhanced instability of extreme motion states in propyne: Lifetimes of overtone versus isoenergetic combination states. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 9314-9317	3.9	36
59	Numerical Laplace transform density of states calculation for medium and large molecules. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 6437-6444	3.9	37
58	The $\nu_1$ vibrational predissociation lifetime of (HCN) <sub>2</sub> determined from upperstate microwave-infrared double-resonance measurements. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 8559-8570	3.9	27
57	The rate of intramolecular vibrational energy relaxation of the fundamental C $\equiv$ H stretch in (CF <sub>3</sub> ) <sub>3</sub> CC $\equiv$ CH. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 1748-1749	3.9	47
56	Structure and Dipole Moment of (CF <sub>3</sub> ) <sub>3</sub> CC $\equiv$ CH. <i>Journal of Molecular Spectroscopy</i> , <b>1993</b> , 160, 58-60	1.3	3
55	The Rotationally Resolved 3- $\mu$ Spectrum and the Structure of the ICCH Dimer. <i>Journal of Molecular Spectroscopy</i> , <b>1993</b> , 162, 342-352	1.3	3
54	Ring-down cavity absorption spectroscopy of the very weak HCN overtone bands with six, seven, and eight stretching quanta. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 6287-6301	3.9	273



53	The interaction of rotation and local mode tunneling in the overtone spectra of symmetric hydrides. II. The spatial properties of the XH <sub>4</sub> eigenstates. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 7402-7409	3.9	27
52	Pulsed polarization spectroscopy with strong fields and an optically thick sample. <i>Physical Review A</i> , <b>1992</b> , 45, 7997-8004	2.6	1
51	The rotationally resolved 1.5 $\mu$ m spectrum of the HCN $\cdots$ F hydrogen-bonded complex. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 8896-8905	3.9	7
50	Harmonically coupled, anharmonic oscillator model for the bending modes of acetylene. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 8117-8119	3.9	21
49	Calculation of high order resonance interactions in C <sub>2</sub> H <sub>2</sub> using the cubic force field. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 1636-1639	3.9	11
48	Regularized inversion of diatomic vibration-rotation spectral data: A functional sensitivity analysis approach. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 852-861	3.9	18
47	Low-temperature pressure broadening in the B band of methane in the presence of para and ortho hydrogen. <i>Journal of Molecular Spectroscopy</i> , <b>1992</b> , 151, 54-58	1.3	7
46	High power injection seeded optical parametric oscillator. <i>Optics Communications</i> , <b>1991</b> , 86, 294-300	2	36
45	The onset of intramolecular vibrational energy redistribution and its intermediate case: The $\nu_1$ and $2\nu_1$ molecular beam, optothermal spectra of trifluoropropyne. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 3891-3916	3.9	78
44	On the fallibility of variational calculations: Ab initio versus empirical potential energy functions for HCN. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 5040-5050	3.9	42
43	The interaction of rotation and local mode tunneling in the overtone spectra of symmetrical hydrides. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 2361-2370	3.9	65
42	Comment on "Direct deconvolution of extensively perturbed spectra: the singlet-triplet molecular eigenstate spectrum of pyrazine". <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 7556-7557		29
41	On the Measurement of the Rate of Intramolecular Vibrational Energy Redistribution via High Resolution Molecular Beam Optothermal Spectroscopy. <i>Laser Chemistry</i> , <b>1991</b> , 11, 237-245		6
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