

Frank C De Lucia

List of Publications by Year in descending order

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237
papers

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citations

36303

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239
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239
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239
times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced breakdown spectroscopy for the detection and characterization of explosives. , 2022, , 269-313.		2
2	Quantitative analysis of composition and temperature of semiconductor processing plasmas via terahertz spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 043004.	2.1	0
3	Laboratory spectroscopic study of isotopic thioformaldehyde, H ₂ CS, and determination of its equilibrium structure. Astronomy and Astrophysics, 2019, 621, A143.	5.1	29
4	Cavity-Based Medium Resolution Spectroscopy (CBMRS) in the THz: A Bridge Between High- and Low-Resolution Techniques for Sensor and Spectroscopy Applications. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 233-243.	3.1	5
5	THE COMPLETE, TEMPERATURE RESOLVED EXPERIMENTAL SPECTRUM OF METHYL FORMATE (HCOOCH ₃) BETWEEN 214.6 AND 265.4 GHz. Astrophysical Journal, 2016, 823, 1.	4.5	8
6	Spectral data analysis approaches for improved provenance classification. Proceedings of SPIE, 2015, , .	0.8	1
7	A spectroscopic tool for identifying sources of origin for materials of military interest. Proceedings of SPIE, 2014, , .	0.8	1
8	THE COMPLETE, TEMPERATURE RESOLVED EXPERIMENTAL SPECTRUM OF METHANOL (CH ₃ OH) BETWEEN 560 AND 654 GHz. Astrophysical Journal, 2014, 782, 75.	4.5	9
9	Design and Signature Analysis of Remote Trace-Gas Identification Methodology Based on Infrared-Terahertz Double-Resonance Spectroscopy. Physical Review Applied, 2014, 2, .	3.8	3
10	85-to-127 GHz CMOS transmitter for rotational spectroscopy. , 2014, , .		13
11	THE COMPLETE, TEMPERATURE RESOLVED EXPERIMENTAL SPECTRUM OF METHANOL (CH ₃ OH) BETWEEN 214.6 AND 265.4 GHz. Astrophysical Journal, 2014, 795, 56.	4.5	7
12	Pursuit of quantum monodromy in the far-infrared and mid-infrared spectra of NCNCS using synchrotron radiation. Physical Chemistry Chemical Physics, 2014, 16, 17373-17407.	2.8	12
13	Far-Infrared Spectrum of S(CN) ₂ Measured with Synchrotron Radiation: Global Analysis of the Available High-Resolution Spectroscopic Data. Journal of Physical Chemistry A, 2013, 117, 13815-13824.	2.5	10
14	Influence of Molecular Structure on the Laser-Induced Plasma Emission of the Explosive RDX and Organic Polymers. Journal of Physical Chemistry A, 2013, 117, 9555-9563.	2.5	45
15	Classification of explosive residues on organic substrates using laser induced breakdown spectroscopy. Applied Optics, 2012, 51, B83.	1.8	52
16	Infrared-terahertz double-resonance spectroscopy of CH ₃ CF and CH ₃ Cl at atmospheric pressure. Physical Review A, 2012, 85, .	2.5	9
17	An analysis of a preliminary ALMA Orion KL spectrum via the use of complete experimental spectra from the laboratory. Journal of Molecular Spectroscopy, 2012, 280, 11-20.	1.2	19
18	Compact Submillimeter/Terahertz Gas Sensor With Efficient Gas Collection, Preconcentration, and ppt Sensitivity. IEEE Sensors Journal, 2012, 12, 2565-2574.	4.7	82

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19	Laser-Induced Breakdown Spectroscopy for the Standoff Detection of Explosive Residues. , 2012, , .		0
20	Infrared/terahertz double resonance spectroscopy remote sensing. , 2011, , .		0
21	Impact of atmospheric clutter on Doppler-limited gas sensors in the submillimeter/terahertz. Applied Optics, 2011, 50, 3028.	2.1	9
22	How Can We Use Complete Experimental Catalogs in the Complex Spectra Limit?. Proceedings of the International Astronomical Union, 2011, 7, 431-439.	0.0	3
23	THE COMPLETE, TEMPERATURE-RESOLVED EXPERIMENTAL SPECTRUM OF VINYL CYANIDE ($H_{2}CCHCN$) BETWEEN 210 AND 270 GHz. Astrophysical Journal, 2011, 737, 20.	4.5	8
24	Rapid analysis of energetic and geo-materials using LIBS. Materials Today, 2011, 14, 274-281.	14.2	35
25	Influence of variable selection on partial least squares discriminant analysis models for explosive residue classification. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 122-128.	2.9	62
26	A NEW APPROACH TO ASTROPHYSICAL SPECTRA: THE COMPLETE EXPERIMENTAL SPECTRUM OF ETHYL CYANIDE ($CH_{3}CH_{2}CN$) BETWEEN 570 AND 645 GHz. Astrophysical Journal, 2010, 714, 476-486.	4.5	28
27	HOW COMPLETE ARE ASTROPHYSICAL CATALOGS FOR THE MILLIMETER AND SUBMILLIMETER SPECTRAL REGION?. Astrophysical Journal Letters, 2010, 725, L11-L14.	8.3	26
28	The rotational spectra of the $\tilde{J}_{8-9=1}$ and $\tilde{J}_{6-7=1}$ interacting vibrational states of nitric acid (HNO_{3}). Journal of Molecular Spectroscopy, 2010, 261, 129-135.	1.2	1
29	The submillimeter: A spectroscopist's view. Journal of Molecular Spectroscopy, 2010, 261, 1-17.	1.2	51
30	Three-dimensional rotational spectroscopy in the submillimeter. Chemical Physics Letters, 2010, 493, 212-215.	2.6	8
31	THE COMPLETE, TEMPERATURE-RESOLVED EXPERIMENTAL SPECTRUM OF ETHYL CYANIDE ($CH_{3}CH_{2}CN$) BETWEEN 210 AND 270 GHz. Astrophysical Journal, 2010, 725, 1682-1687.	4.5	16
32	Progress in Standoff LIBS Detection and Identification of Residue Materials. , 2010, , .		0
33	Submillimeter spectroscopy for chemical analysis with absolute specificity. Optics Letters, 2010, 35, 1533.	3.3	84
34	PL-6: Spectroscopic systems and vacuum electronics in the submillimeter. , 2010, , .		0
35	Analysis of the FASSST rotational spectrum of NCNCS in view of quantum monodromy. Physical Chemistry Chemical Physics, 2010, 12, 8158.	2.8	19
36	Determination of precise relative energies of conformers of n-propanol by rotational spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 8329.	2.8	51

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37	Multivariate analysis of laser-induced breakdown spectroscopy chemical signatures for geomaterial classification. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1009-1019.	2.9	154
38	Laser-induced breakdown spectroscopy for detection of explosives residues: a review of recent advances, challenges, and future prospects. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 283-300.	3.7	278
39	The rotational spectrum of chlorine nitrate (ClONO ₂) in the four lowest n ^{1/2} 9 polyads. <i>Journal of Molecular Spectroscopy</i> , 2009, 254, 78-86.	1.2	21
40	Evaluation of femtosecond laser-induced breakdown spectroscopy for explosive residue detection. <i>Optics Express</i> , 2009, 17, 419.	3.4	71
41	A Double Resonance Approach to Submillimeter/Terahertz Remote Sensing at Atmospheric Pressure. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 163-170.	1.9	27
42	THE MILLIMETER- AND SUBMILLIMETER-WAVE SPECTRUM OF THE TRANS AND GAUCHE CONFORMERS OF ETHYL FORMATE. <i>Astrophysical Journal, Supplement Series</i> , 2009, 181, 433-438.	7.7	21
43	Rotational spectrum of acetone, CH ₃ COCH ₃ , in the ^{1/2} 17 torsional excited state. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 180-184.	1.2	17
44	Submillimeter-wave spectra of H ₁₂ COOCH ₃ and H ₁₃ COOCH ₃ in excited CH ₃ torsional states. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 293-300.	1.2	32
45	Multivariate analysis of standoff laser-induced breakdown spectroscopy spectra for classification of explosive-containing residues. <i>Applied Optics</i> , 2008, 47, G112.	2.1	128
46	Detection of indoor biological hazards using the man-portable laser induced breakdown spectrometer. <i>Applied Optics</i> , 2008, 47, G48.	2.1	29
47	Use of laser induced breakdown spectroscopy in the determination of gem provenance: beryls. <i>Applied Optics</i> , 2008, 47, G72.	2.1	39
48	Laser-induced breakdown spectroscopy for the classification of unknown powders. <i>Applied Optics</i> , 2008, 47, G80.	2.1	30
49	Standoff Detection of Chemical and Biological Threats Using Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2008, 62, 353-363.	2.2	147
50	Active and passive imaging in the THz spectral region: phenomenology, dynamic range, modes, and illumination. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1523.	2.1	57
51	The Millimeter- and Submillimeter-Wave Spectrum of ¹³ C ₁ -Methyl Formate (H ¹³ COOCH ₃) in the Ground State. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 138-146.	7.7	24
52	High-Frequency Rotational Spectrum of Thioformaldehyde, H ₂ CS, in the Ground Vibrational State. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 543-550.	7.7	30
53	The Millimeter- and Submillimeter-Wave Spectrum of Methyl Carbamate [CH ₃ OC(:O)NH ₂]. <i>Astrophysical Journal, Supplement Series</i> , 2007, 169, 28-36.	7.7	32
54	Laboratory measurements of dry air atmospheric absorption with a millimeter wave cavity ringdown spectrometer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 108, 256-276.	2.3	15

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55	The rotational spectrum of chlorine nitrate (ClONO ₂): The $\hat{1}/25/\hat{1}/26\hat{1}/29$ dyad. Journal of Molecular Spectroscopy, 2007, 243, 1-9.	1.2	12
56	The millimeter-wave spectrum of chlorine nitrate (ClONO ₂): The $\hat{1}/26$ vibrational state. Journal of Molecular Spectroscopy, 2007, 244, 113-116.	1.2	8
57	Comprehensive analysis of the FASSST rotational spectrum of S(CN) ₂ . Journal of Molecular Spectroscopy, 2007, 246, 39-56.	1.2	25
58	Double pulse laser-induced breakdown spectroscopy of explosives: Initial study towards improved discrimination. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1399-1404.	2.9	93
59	Laser-induced breakdown spectroscopy analysis of minerals: Carbonates and silicates. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1528-1536.	2.9	88
60	Double-pulse standoff laser-induced breakdown spectroscopy for versatile hazardous materials detection. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1405-1411.	2.9	150
61	An Experimental Approach to the Prediction of Complete Millimeter and Submillimeter Spectra at Astrophysical Temperatures: Applications to Confusion-limited Astrophysical Observations. Astrophysical Journal, 2007, 656, 621-628.	4.5	29
62	Terahertz Spectroscopy and Applications. , 2006, , .		0
63	Chemical analysis in the submillimetre spectral region with a compact solid state system. Analyst, The, 2006, 131, 1299.	3.5	11
64	Signature science in the terahertz. , 2006, 6373, 13.		0
65	The millimeter wave spectrum of cis-HCOOH in the ground state and in the $\nu_9=1$ and $\nu_7=1$ excited vibrational states, and cis-H ₁₃ COOH in the ground state. Journal of Molecular Structure, 2006, 795, 42-48.	3.6	14
66	Rotational spectrum of acetone, CH ₃ COCH ₃ , in the first torsional excited state. Journal of Molecular Structure, 2006, 795, 173-178.	3.6	24
67	Simultaneous analysis of rovibrational and rotational data for the 41, 51, 61, 72, 81, 7191 and 92 states of HCOOH. Journal of Molecular Structure, 2006, 795, 54-77.	3.6	36
68	The hidden kernel of molecular quasi-linearity: Quantum monodromy. Journal of Molecular Structure, 2006, 798, 1-26.	3.6	89
69	FTIR and millimeter wave investigation of the 71 and 91 states of formic acid HCOOH and H ₁₃ COOH. Journal of Molecular Spectroscopy, 2006, 240, 188-201.	1.2	15
70	Laser-induced breakdown spectroscopy analysis of complex silicate minerals—beryl. Analytical and Bioanalytical Chemistry, 2006, 385, 263-271.	3.7	62
71	The Millimeter- and Submillimeter-Wave Spectrum of the <i>G</i> <i>t</i> Conformer of <i>n</i> -Propanol (<i>n</i> -C ₃ H ₇ OH) <small>Tj ETQq1 1.0,784314</small>	7.7	40
72	The Millimeter- and Submillimeter-Wave Spectrum of Iso-Propanol [(CH ₃) ₂ CHOH]. Astrophysical Journal, Supplement Series, 2006, 166, 650-658.	7.7	21

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73	Millimeter-Wave and Vibrational State Assignments for the Rotational Spectrum of Glycolaldehyde. <i>Astrophysical Journal, Supplement Series</i> , 2005, 158, 188-192.	7.7	36
74	THz gas sensing with submillimeter techniques (Invited Paper). , 2005, , .		4
75	The Millimeter- and Submillimeter-Wave Spectrum of Cyanofornamide. <i>Astrophysical Journal, Supplement Series</i> , 2005, 159, 189-195.	7.7	9
76	Investigation of statistics strategies for improving the discriminating power of laser-induced breakdown spectroscopy for chemical and biological warfare agent simulants. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1217-1224.	2.9	124
77	Millimeter and submillimeter wave rotational spectrum of pyridine in the ground and excited vibrational states. <i>Journal of Molecular Spectroscopy</i> , 2005, 232, 61-65.	1.2	21
78	The rotational spectra of the 7191, 6191, and 72 vibrational states of nitric acid. <i>Journal of Molecular Spectroscopy</i> , 2005, 233, 189-196.	1.2	8
79	Rotational spectrum of trans-trans diethyl ether in the ground and three excited vibrational states. <i>Journal of Molecular Spectroscopy</i> , 2005, 233, 231-243.	1.2	241
80	The use of CAAARS (Computer Aided Assignment of Asymmetric Rotor Spectra) in the analysis of rotational spectra. <i>Journal of Molecular Structure</i> , 2005, 742, 229-236.	3.6	32
81	Broadband absolute absorption measurements of atmospheric continua with millimeter wave cavity ringdown spectroscopy. <i>Review of Scientific Instruments</i> , 2005, 76, 083103.	1.3	29
82	Helium induced pressure broadening and shifting of HCN hyperfine transitions between 1.3 and 20 K. <i>Journal of Chemical Physics</i> , 2005, 122, 184319.	3.0	12
83	Experimental Confirmation of Quantum Monodromy: The Millimeter Wave Spectrum of Cyanogen Isothiocyanate NCNCS. <i>Physical Review Letters</i> , 2005, 95, 243002.	7.8	58
84	Laser-induced breakdown spectroscopy (LIBS) – an emerging field-portable sensor technology for real-time, <i>in-situ</i> geochemical and environmental analysis. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2005, 5, 21-28.	0.9	124
85	Fast analysis of gases in the submillimeter-terahertz with absolute specificity. <i>Applied Physics Letters</i> , 2005, 86, 154105.	3.3	45
86	Molecular structure, spectral constants, and fermi resonances in chlorine nitrate. <i>Journal of Molecular Structure</i> , 2004, 695-696, 287-293.	3.6	3
87	The millimeter- and submillimeter-wave spectrum of the trans-gauche conformer of diethyl ether. <i>Journal of Molecular Spectroscopy</i> , 2004, 228, 314-328.	1.2	81
88	Noise, detectors, and submillimeter-terahertz system performance in nonambient environments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1273.	2.1	21
89	The Millimeter- and Submillimeter-Wave Spectrum of Oxiranecarbonitrile. <i>Astrophysical Journal, Supplement Series</i> , 2004, 152, 97-101.	7.7	12
90	The millimeter and submillimeter spectra of the ground state and excited , , and vibrational states of. <i>Journal of Molecular Spectroscopy</i> , 2003, 218, 127-130.	1.2	24

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91	The millimeter-wave spectrum of chlorine nitrate (ClONO ₂): the 3 ¹ / ₂ and 1 ¹ / ₂ interacting dyad. Journal of Molecular Spectroscopy, 2003, 220, 150-152.	1.2	10
92	Observation of bands among the four lowest pseudorotational states of 1,3-dioxolane. Journal of Molecular Spectroscopy, 2003, 221, 227-238.	1.2	4
93	The absorption spectroscopy of the lowest pseudorotational states of tetrahydrofuran. Journal of Chemical Physics, 2003, 118, 3589-3599.	3.0	47
94	Spectroscopy in the Terahertz Spectral Region. Springer Series in Optical Sciences, 2003, , 39-115.	0.7	29
95	Laser-induced breakdown spectroscopy analysis of energetic materials. Applied Optics, 2003, 42, 6148.	2.1	172
96	Science and Technology in the Submillimeter Region. Optics and Photonics News, 2003, 14, 44.	0.5	23
97	The Millimeter- and Submillimeter-Wave Spectrum of the trans-trans Conformer of Diethyl Ether (C ₂ H ₅) ₂ O. J. Phys. Chem. A, 2001, 105, 10080-10088.	7.7	19
98	trans-Ethyl Methyl Ether: Assignments and Predictions up to 400 GHz for the Vibrational-Torsional Ground State. Astrophysical Journal, Supplement Series, 2003, 144, 277-286.	7.7	43
99	Acetone: Laboratory Assignments and Predictions through 620 GHz for the Vibrational-Torsional Ground State. Astrophysical Journal, Supplement Series, 2002, 142, 145-151.	7.7	70
100	The Millimeter-Wave Spectrum of Chlorine Nitrate (ClONO ₂): The 2 ¹ / ₂ and 1 ¹ / ₂ Vibrational States. Journal of Molecular Spectroscopy, 2002, 213, 8-14.	1.2	11
101	Spectroscopy of the 10 Vibrational-Tunneling Rotational Band in Rg-ND ₃ (Rg = Ne, Ar, Kr). Journal of Molecular Spectroscopy, 2002, 214, 202-215.	1.2	12
102	Submillimeter wave vibration-rotation spectroscopy of Ar-CO and Ar-ND ₃ . Journal of Chemical Physics, 2001, 114, 6100-6106.	3.0	28
103	On the Low-Lying CCN Bending Mode of the Nearly Linear Molecule NCCNO. Journal of Physical Chemistry A, 2001, 105, 10080-10088.	2.5	11
104	The Millimeter- and Submillimeter-Wave Spectrum of Glycolaldehyde (CH ₂ OHCHO). Astrophysical Journal, Supplement Series, 2001, 134, 319-321.	7.7	43
105	Millimeter-wave time-resolved studies of HCO ⁺ -H ₂ inelastic collisions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 705-716.	3.9	8
106	The Energy Levels of the 5/2 ¹ / ₂ Dyad of HNO ₃ from Millimeter and Submillimeter Rotational Spectroscopy. Journal of Molecular Spectroscopy, 2001, 208, 121-135.	1.2	31
107	Helium and Hydrogen Induced Rotational Relaxation of H ₂ CO Observed at Temperatures of the Interstellar Medium. Astrophysical Journal, 2000, 543, 271-274.	4.5	13
108	Theoretical and experimental investigation of pressure broadening and line shift of carbon monoxide in collision with hydrogen between 8 and 600 K. Journal of Chemical Physics, 2000, 112, 4069-4075.	3.0	32

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109	The Millimeter- and Submillimeter-Wave Spectrum of Methyl Mercaptan (CH ₃ SH). <i>Astrophysical Journal</i> , 1999, 510, 789-794.	4.5	29
110	Quantum scattering calculations for H ₂ S-He between 1-600 K in comparison with pressure broadening, shift, and time resolved double resonance experiments. <i>Journal of Chemical Physics</i> , 1999, 111, 8893-8903.	3.0	26
111	Rotational state dependence of collision induced line broadening and shift at low temperature. <i>Journal of Chemical Physics</i> , 1999, 110, 2087-2098.	3.0	21
112	Millimeterwave spectroscopy of active laser plasmas; the excited vibrational states of HCN. <i>Journal of Chemical Physics</i> , 1999, 67, 4262.	3.0	46
113	Spatial mapping of collisionally cooled carbon monoxide molecules in a cold cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 1957-1966.	3.9	10
114	Direct observation of \hat{I} -doublet and hyperfine branching ratios for rotationally inelastic collisions of NO-He at 4.2 K. <i>Chemical Physics Letters</i> , 1999, 300, 227-235.	2.6	11
115	The Millimeter- and Submillimeter-wave Spectrum of Methyl Formate (HCOOCH ₃). <i>Astrophysical Journal</i> , 1999, 521, 255-260.	4.5	58
116	Millimeter and Submillimeter-Wave Spectrum of Hydrogen Peroxide in the Ground and $v_3 = 1$ Vibrational States. <i>Journal of Molecular Spectroscopy</i> , 1998, 192, 25-31.	1.2	12
117	Pressure broadening of HNO ₃ by N ₂ and O ₂ : an intercomparison of results in the millimeter wave region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 77-84.	2.3	14
118	Direct Measurement of Rotationally Inelastic Cross Sections at Astrophysical and Quantum Collisional Temperatures. <i>Physical Review Letters</i> , 1998, 81, 305-308.	7.8	31
119	Dimethyl Ether: Laboratory Assignments and Predictions through 600 GHz. <i>Astrophysical Journal</i> , 1998, 500, 1059-1063.	4.5	68
120	The Millimeter- and Submillimeter-Wave Spectrum of Ethylene Oxide (C ₂ H ₄ O). <i>Astrophysical Journal</i> , 1998, 499, 517-519.	4.5	26
121	A fast scan submillimeter spectroscopic technique. <i>Review of Scientific Instruments</i> , 1997, 68, 1675-1683.	1.3	146
122	Prediction of the temperature dependence of K-changing rotational collisional processes in CH ₃ Cl. <i>Journal of Chemical Physics</i> , 1997, 106, 2670-2674.	3.0	0
123	Gauche Ethyl Alcohol: Laboratory Assignments and Interstellar Identification. <i>Astrophysical Journal</i> , 1997, 480, 420-431.	4.5	67
124	A new source for the experimental study of ions at low temperature. <i>AIP Conference Proceedings</i> , 1997, , .	0.4	0
125	Performance characteristics of a low-temperature cell for collisional cooling experiments. , 1996, 2834, 102.		2
126	The pressure broadening of SO ₂ by N ₂ , O ₂ , He, and H ₂ between 90 and 500 K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 56, 109-117.	2.3	14

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127	The Millimeter- and Submillimeter-Wave Spectrum of Gauche-Ethyl Alcohol. <i>Journal of Molecular Spectroscopy</i> , 1996, 175, 246-261.	1.2	77
128	Rotational Spectrum of HNO ₃ in the $\hat{1}\frac{1}{2}$ and $2\hat{1}\frac{1}{2}$ Vibrational States. <i>Journal of Molecular Spectroscopy</i> , 1996, 175, 395-410.	1.2	22
129	Pressure broadening and line shift measurements of carbon monoxide in collision with helium from 1 to 600 K. <i>Journal of Chemical Physics</i> , 1996, 105, 3994-4004.	3.0	59
130	Hydrogen and helium pressure broadening of CH ₃ F between 1 K and 600 K. <i>Journal of Molecular Structure</i> , 1995, 352-353, 245-251.	3.6	15
131	Femtosecond demodulation source for high-resolution submillimeter spectroscopy. <i>Applied Physics Letters</i> , 1995, 67, 3810-3812.	3.3	22
132	The Millimeter- and Submillimeter-Wave Spectrum of <i>trans</i> -Ethyl Alcohol. <i>Journal of Physical and Chemical Reference Data</i> , 1995, 24, 1-32.	4.2	59
133	Rotational Energy Transfer in Small Polyatomic Molecules 11 For Rodney I. McCormick (1946-1994), a leader, a scholar, and a friend.. <i>Advances in Atomic, Molecular and Optical Physics</i> , 1995, , 331-400.	2.3	11
134	Time-resolved double resonance study of J- and K-changing rotational collisional processes in CH ₃ Cl. <i>Journal of Chemical Physics</i> , 1994, 100, 5666-5683.	3.0	11
135	Millimeter and submillimeter spectroscopy of molecules of atmospheric significance. , 1994, 2205, 269.		0
136	Collisional spectroscopy between 1 K and 1000 K. , 1994, 2205, 49.		0
137	The Hydrogen and Helium Pressure Broadening at Planetary Temperatures of the 183 and 380 GHz Transitions of Water Vapor. <i>Icarus</i> , 1993, 102, 232-239.	2.5	33
138	The temperature dependence of fast vibrational energy transfer processes in methyl fluoride. <i>Molecular Physics</i> , 1993, 79, 1087-1101.	1.7	3
139	Very low temperature helium pressure broadening of DCl in a collisionally cooled cell. <i>Journal of Chemical Physics</i> , 1992, 96, 898-902.	3.0	20
140	Collisions and rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 1992, 153, 324-339.	1.2	9
141	An extension of the high-resolution millimeter- and submillimeter-wave spectrum of methanol to high angular momentum quantum numbers. <i>Astrophysical Journal, Supplement Series</i> , 1992, 82, 405.	7.7	35
142	Collisional cooling as an environment for planetary research. <i>Journal of Geophysical Research</i> , 1991, 96, 17455-17461.	3.3	8
143	Millimeter- and submillimeter-wave spectrum of highly excited states of water. <i>Astrophysical Journal</i> , 1991, 379, L41.	4.5	38
144	The pressure broadening of NO ₂ in the millimeter and submillimeter wave spectral region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1990, 43, 365-369.	2.3	5

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145	Rotational and vibrational temperatures in a 77 K collisionally cooled cell. Journal of Molecular Spectroscopy, 1990, 140, 311-321.	1.2	9
146	The millimeter and submillimeter wave spectrum of the $\hat{1}\frac{1}{2}8 + \hat{1}\frac{1}{2}9$ state of HNO ₃ . Journal of Molecular Spectroscopy, 1990, 139, 241-243.	1.2	13
147	The pressure broadening of the 31,3-22,0 transition of water between 80 and 600 K. Journal of Molecular Spectroscopy, 1990, 143, 346-358.	1.2	62
148	Frequency stability and reproducibility of optically pumped far-infrared lasers. Applied Physics Letters, 1990, 57, 2882-2884.	3.3	7
149	Collisionally cooled spectroscopy: Pressure broadening below 5 K. Journal of Chemical Physics, 1989, 91, 122-125.	3.0	41
150	A time-resolved study of rotational energy transfer into A and E symmetry species of ¹³ CH ₃ F. Journal of Chemical Physics, 1989, 90, 3520-3527.	3.0	15
151	The far-infrared spectrum of N ₂ O ₅ in the gas phase. Journal of Molecular Spectroscopy, 1989, 136, 151-156.	1.2	9
152	Very low temperature spectroscopy: The helium pressure broadening coefficients below 4.3 K for the higher lying states of CH ₃ F. Journal of Molecular Spectroscopy, 1989, 133, 182-192.	1.2	16
153	The analysis of the rotational spectrum of methanol to microwave accuracy. Journal of Molecular Spectroscopy, 1989, 134, 395-411.	1.2	66
154	Pressure broadening cross sections for the H ₂ Si-He system in the temperature region between 4.3 and 1.8 K. Journal of Molecular Spectroscopy, 1989, 134, 240-242.	1.2	20
155	Collisional cooling of the NO-He system The pressure broadening cross sections between 4 \hat{A} -3 and 1 \hat{A} -8 K. Molecular Physics, 1989, 67, 455-463.	1.7	25
156	The rotational spectrum of nitric acid: The first five vibrational states. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 40, 39-46.	2.3	23
157	Pressure broadening of NO ₂ , CF ₂ Cl ₂ , HDO and HOOH by O ₂ and N ₂ in the millimeter wave region. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 40, 129-134.	2.3	8
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