

Livio Gianfrani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3468827/publications.pdf>

Version: 2024-02-01

129
papers

3,116
citations

159585
30
h-index

197818
49
g-index

132
all docs

132
docs citations

132
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq1 1 0.784314 rgBT /Over 225	1.9	
2	Observing the Intrinsic Linewidth of a Quantum-Cascade Laser: Beyond the Schawlow-Townes Limit. Physical Review Letters, 2010, 104, 083904.	7.8	147
3	Advances in laser-based isotope ratio measurements: selected applications. Applied Physics B: Lasers and Optics, 2008, 92, 439-449.	2.2	123
4	Cavity-enhanced absorption spectroscopy of molecular oxygen. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 2247.	2.1	110
5	Recent advances in collisional effects on spectra of molecular gases and their practical consequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 178-227.	2.3	85
6	Primary Gas Thermometry by Means of Laser-Absorption Spectroscopy: Determination of the Boltzmann Constant. Physical Review Letters, 2008, 100, 200801. Determination of the Boltzmann Constant by Means of Precision Measurements of $\langle mml:math display="block">\text{H} \langle mml:mi \rangle \langle mml:mn \rangle 2 \langle /mml:mn \rangle \langle /mml:msub \rangle \langle mml:mmultiscripts \rangle \langle mml:mi \mathit{mathvariant}="normal" \rangle O \langle /mml:mi \rangle \langle mml:mprescripts \rangle / \langle mml:mi \rangle \langle mml:mn \rangle 18 \langle /mml:mn \rangle \langle /mml:mmultiscripts \rangle \langle /mml:math \rangle$ Line Shapes at $\langle mml:math display="block">\text{H} \langle mml:mi \rangle \langle mml:mn \rangle 1.39 \langle /mml:mn \rangle \langle /mml:math \rangle$	7.8	83
7	Isotope analysis of water by means of near infrared dual-wavelength diode laser spectroscopy. Optics Express, 2003, 11, 1566.	7.8	73
8	Frequency-comb-referenced quantum-cascade laser at $44\frac{1}{4}\text{m}$. Optics Letters, 2007, 32, 988.	3.3	63
9	Velocity effects on the shape of pure H ₂ O isolated lines: Complementary tests of the partially correlated speed-dependent Keilson-Storer model. Journal of Chemical Physics, 2013, 138, 034302.	3.0	61
10	Looking into the volcano with a Mid-IR DFB diode laser and Cavity Enhanced Absorption Spectroscopy. Optics Express, 2006, 14, 11442.	3.4	56
11	Lamb-dip-locked quantum cascade laser for comb-referenced IR absolute frequency measurements. Optics Express, 2008, 16, 11637.	3.4	56
12	The spectral shapes of CO ₂ molecules: Experimental investigation and test of semiclassical models. Journal of Chemical Physics, 2009, 130, 184306. Speed-dependent effects in the near-infrared spectrum of self-colliding CO ₂ molecules	3.0	54
13	Test of the Symmetrization Postulate for Spin-0 Particles. Physical Review Letters, 1996, 76, 2840-2843.	7.8	53
14	Determination of the 2H/1H, 17O/16O, and 18O/16O isotope ratios in water by means of tunable diode laser spectroscopy at $1.39\frac{1}{4}\text{m}$. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 2389-2396.	3.9	51
15	High-precision determination of the 13CO ₂ /12CO ₂ isotope ratio using a portable $2.008\frac{1}{4}\text{m}$ diode-laser spectrometer. Applied Physics B: Lasers and Optics, 2003, 77, 119-124.	2.2	50

#	ARTICLE	IF	CITATIONS
19	The Boltzmann project. <i>Metrologia</i> , 2018, 55, R1-R20.	1.2	49
20	Coherent phase lock of a $9\frac{1}{4}$ m quantum cascade laser to a $2\frac{1}{4}$ m thulium optical frequency comb. <i>Optics Letters</i> , 2012, 37, 4083.	3.3	48
21	First field determination of the $\Delta^1\text{C}/\Delta^1\text{A}^2\text{C}$ isotope ratio in volcanic CO ₂ by diode-laser. <i>Optics Express</i> , 2004, 12, 6515.	3.4	42
22	Linking the thermodynamic temperature to an optical frequency: recent advances in Doppler broadening thermometry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150047.	3.4	42
23	High-precision molecular interrogation by direct referencing of a quantum-cascade-laser to a near-infrared frequency comb. <i>Optics Express</i> , 2011, 19, 17520.	3.4	39
24	On the determination of the Boltzmann constant by means of precision molecular spectroscopy in the near-infrared. <i>Comptes Rendus Physique</i> , 2009, 10, 894-906.	0.9	37
25	Collisional-Broadened and Dicke-Narrowed Lineshapes of H ₂ 16O and H ₂ 18O Transitions at $1.39\frac{1}{4}$ m. <i>Journal of Molecular Spectroscopy</i> , 2001, 205, 20-27.	1.2	36
26	Mid-infrared quantitative spectroscopy by comb-referencing of a quantum-cascade-laser: Application to the CO ₂ spectrum at $4.3\frac{1}{4}$ m. <i>Applied Physics Letters</i> , 2011, 99, 251107.	3.3	35
27	Remote sensing of volcanic gases with a DFB-laser-based fiber spectrometer. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, 467-470.	2.2	34
28	Offset-frequency locking of extended-cavity diode lasers for precision spectroscopy of water at $138\sim\mu\text{m}$. <i>Optics Express</i> , 2010, 18, 21851.	3.4	31
29	Diode laser absorption spectrometry for ¹³ CO ₂ / ¹² CO ₂ isotope ratio analysis: Investigation on precision and accuracy levels. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 863-869.	2.2	30
30	Highly accurate determinations of CO ₂ line strengths using intensity-stabilized diode laser absorption spectrometry. <i>Journal of Chemical Physics</i> , 2007, 127, 084311.	3.0	30
31	<small>Speed dependence of collision parameters in the H_2O near-IR spectrum: Precision spectroscopy of HD at $1.39\frac{1}{4}$m. <i>Physical Review A</i>, 2012, 85, .</small>	2.5	30
32	<small>$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 18 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \text{mathvariant}=\text{"normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{near-IR spectrum:}$ Precision spectroscopy of HD at $1.39\frac{1}{4}$m. <i>Physical Review A</i>, 2012, 85, .</small>	2.5	30
33	Spectroscopy of the 689 nm intercombination line of strontium using an extended-cavity InGaP/InGaAlP diode laser. <i>Applied Physics B: Lasers and Optics</i> , 1992, 55, 397-400.	2.2	29
34	Absolute frequency measurement of a water-stabilized diode laser at $1.384\frac{1}{4}$ m by means of a fiber frequency comb. <i>Applied Physics B: Lasers and Optics</i> , 2011, 102, 725-729.	2.2	29
35	The Boltzmann constant from the H ₂ O vibration-rotation spectrum: complementary tests and revised uncertainty budget. <i>Metrologia</i> , 2015, 52, S233-S241.	1.2	29
36	A diode-laser-based spectrometer for in-situ measurements of volcanic gases. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 235-240.	2.2	28

#	ARTICLE	IF	CITATIONS
37	Optical feedback cavity-enhanced absorption spectroscopy for in situ measurements of the ratio 13C:12C in CO ₂ . <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 459.	2.2	28
38	Absolute frequency stabilization of an extended-cavity diode laser by means of noise-immune cavity-enhanced optical heterodyne molecular spectroscopy. <i>Optics Letters</i> , 2014, 39, 2198.	3.3	28
39	Absolute frequency stabilization of an extended-cavity diode laser against Doppler-free H_2^17O absorption lines at 1384 $\frac{1}{4}$ m. <i>Optics Letters</i> , 2009, 34, 3107.	3.3	27
40	Progress towards the determination of thermodynamic temperature with ultra-low uncertainty. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150046.	3.4	27
41	Design and Capabilities of the Temperature Control System for the Italian Experiment Based on Precision Laser Spectroscopy for a New Determination of the Boltzmann Constant. <i>International Journal of Thermophysics</i> , 2010, 31, 1360-1370.	2.1	26
42	Experimental test of the quadratic approximation in the partially correlated speed-dependent hard-collision profile. <i>Physical Review A</i> , 2014, 90, .	2.5	26
43	Doppler-free saturated-absorption spectroscopy of CO_2 at 43 $\frac{1}{4}$ m by means of a distributed feedback quantum cascade laser. <i>Optics Letters</i> , 2006, 31, 3040.	3.3	25
44	Highly accurate intensity factors of pure CO ₂ lines near 2 $\frac{1}{4}$ m. <i>Journal of Chemical Physics</i> , 2017, 146, 244309.	3.0	25
45	Narrow-linewidth quantum cascade laser at 86 \AA at 2 $\frac{1}{4}$ m. <i>Optics Letters</i> , 2014, 39, 4946.	3.3	24
46	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	23
47	High-sensitivity detection of NO ₂ using a 740 nm semiconductor diode laser. <i>Applied Physics B: Lasers and Optics</i> , 1997, 64, 487-491.	2.2	22
48	Frequency metrology in the near-infrared spectrum of H ₂ ¹⁷ O and H ₂ ¹⁸ O molecules: testing a new inversion method for retrieval of energy levels. <i>New Journal of Physics</i> , 2010, 12, 103006.	2.9	22
49	Absorption-line-shape recovery beyond the detection-bandwidth limit: Application to the precision spectroscopic measurement of the Boltzmann constant. <i>Physical Review A</i> , 2014, 90, .	2.5	22
50	Combined interferometric and absorption-spectroscopic technique for determining molecular line strengths: Applications to CO ₂ . <i>Physical Review A</i> , 2003, 67, .	2.5	21
51	Trace-gas analysis using diode lasers in the near-IR and long-path techniques. <i>Optics and Lasers in Engineering</i> , 2002, 37, 509-520.	3.8	20
52	Oxygen isotope ratio measurements in CO ₂ by means of a continuous-wave quantum cascade laser at 43 $\frac{1}{4}$ m. <i>Optics Letters</i> , 2007, 32, 3047.	3.3	20
53	Direct phase-locking of a 86 $\frac{1}{4}$ m quantum cascade laser to a mid-IR optical frequency comb: application to precision spectroscopy of N ₂ O. <i>Optics Letters</i> , 2015, 40, 304.	3.3	20
54	Quantitative diode laser absorption spectroscopy near 2 $\frac{1}{4}$ m with high precision measurements of CO ₂ concentration. <i>Review of Scientific Instruments</i> , 2001, 72, 4228-4233.	1.3	19

#	ARTICLE		IF	CITATIONS
55	Determination of Thermodynamic Temperatures from a Line-Doublét in the Near Infrared. <i>Physical Review Applied</i> , 2019, 11, .	$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"}$ $\text{overflow}=\text{"scroll"} \text{ <mml:msub> } \text{ <mml:mi>C} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ <mml:msub> } \text{ <mml:mi>H} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ </mml:math>}$ Line-Doublét in the Near Infrared.	3.8	19
56	Visible and ultraviolet high resolution spectroscopy of Ti I and Ti II. <i>Optics Communications</i> , 1991, 83, 300-306.		2.1	18
57	Measuring the $^{13}\text{C}/^{12}\text{C}$ isotope ratio in atmospheric CO ₂ by means of laser absorption spectrometry: a new perspective based on a 2.05 \AA diode laser. <i>Isotopes in Environmental and Health Studies</i> , 2006, 42, 47-56.		1.0	18
58	An Intensity-Stabilized Diode-Laser Spectrometer for Sensitive Detection of NH_3 . <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 309-312.		4.7	18
59	Line-narrowing effects in the near-infrared spectrum of water and precision determination of spectroscopic parameters. <i>Journal of Chemical Physics</i> , 2014, 140, 044310.		3.0	18
60	Doppler-limited precision spectroscopy of HD at 1.4 \AA : An improved determination of the R (1) center frequency. <i>Physical Review A</i> , 2021, 103, .		2.5	18
61	High precision determinations of NH ₃ concentration by means of diode laser spectrometry at 2.005 \AA . <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 257-263.		2.2	17
62	An efficient approximation for a wavelength-modulated 2nd harmonic lineshape from a Voigt absorption profile. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 168-175.		2.3	17
63	The Boltzmann constant from the shape of a molecular spectral line. <i>Journal of Molecular Spectroscopy</i> , 2014, 300, 131-138.		1.2	17
64	Characterization of the frequency stability of an optical frequency standard at 139 \AA based upon noise-immune cavity-enhanced optical heterodyne molecular spectroscopy. <i>Optics Express</i> , 2015, 23, 1757.		3.4	17
65	Cavity-ring-down Doppler-broadening primary thermometry. <i>Physical Review A</i> , 2018, 97, .		2.5	17
66	Monitoring of O ₂ and NO ₂ using tunable diode lasers in the near-infrared region. <i>Sensors and Actuators B: Chemical</i> , 1997, 39, 283-285.		7.8	16
67	Chemical and isotopic analysis using diode laser spectroscopy: applications to volcanic gas monitoring. <i>Optics and Lasers in Engineering</i> , 2002, 37, 131-142.		3.8	16
68	The lineshape problem in Doppler-width thermometry. <i>Molecular Physics</i> , 2011, 109, 2291-2298.		1.7	16
69	Detection of H ₂ O and CO ₂ with distributed feedback diode lasers: measurement of broadening coefficients and assessment of the accuracy levels for volcanic monitoring. <i>Applied Optics</i> , 1997, 36, 9481.		2.1	14
70	Experimental indication of a nuclear volume contribution to the isotope shift of atomic oxygen. <i>Optics Communications</i> , 1990, 78, 158-162.		2.1	13
71	Hyperfine structure and isotope-shift investigations of atomic nitrogen by saturation spectroscopy. <i>Physical Review A</i> , 1994, 50, 1082-1087.	$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ <mml:mrow> } \text{ <mml:msub> } \text{ <mml:mi>C} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ <mml:msub> } \text{ <mml:mi>H} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ </mml:mrow> }$ $\text{mathvariant}=\text{"normal"} \text{ <mml:mrow> } \text{ <mml:msub> } \text{ <mml:mi>C} \text{ </mml:mi> } \text{ <mml:mn>}1.4 \text{ </mml:mn> } \text{ <mml:msub> } \text{ <mml:mi>H} \text{ </mml:mi> } \text{ <mml:mn>}1\frac{1}{4} \text{ </mml:mn> } \text{ </mml:msub> } \text{ </mml:mrow> }$ $\text{mathvariant}=\text{"normal"} \text{ <mml:mrow> } \text{ <mml:mi>m} \text{ </mml:mi> } \text{ </mml:mrow> }$	2.5	13
72	Dual-laser absorption spectroscopy of H_2 . <i>Physical Review A</i> , 2016, 93, .	$\text{mathvariant}=\text{"normal"} \text{ <mml:mrow> } \text{ <mml:msub> } \text{ <mml:mi>C} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ <mml:msub> } \text{ <mml:mi>H} \text{ </mml:mi> } \text{ <mml:mn>}2 \text{ </mml:mn> } \text{ </mml:msub> } \text{ </mml:mrow> }$ $\text{mathvariant}=\text{"normal"} \text{ <mml:mrow> } \text{ <mml:msub> } \text{ <mml:mi>C} \text{ </mml:mi> } \text{ <mml:mn>}1.4 \text{ </mml:mn> } \text{ <mml:msub> } \text{ <mml:mi>H} \text{ </mml:mi> } \text{ <mml:mn>}1\frac{1}{4} \text{ </mml:mn> } \text{ </mml:msub> } \text{ </mml:mrow> }$ $\text{mathvariant}=\text{"normal"} \text{ <mml:mrow> } \text{ <mml:mi>m} \text{ </mml:mi> } \text{ </mml:mrow> }$	2.5	13

#	ARTICLE	IF	CITATIONS
73	Optical methods for monitoring of volcanoes: techniques and new perspectives. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 109, 235-245.	2.1	12
74	Doppler-width thermodynamic thermometry by means of line-absorbance analysis. <i>Physical Review A</i> , 2011, 84, .	2.5	12
75	Absolute frequency measurements of CHF ₃ Doppler-free ro-vibrational transitions at 86 Å. <i>Optics Letters</i> , 2017, 42, 1911.	3.3	12
76	Comb-assisted spectroscopy of CO ₂ absorption profiles in the near- and mid-infrared regions. <i>Applied Physics B: Lasers and Optics</i> , 2012, 109, 385-390.	2.2	11
77	Amount-ratio determinations of water isotopologues by dual-laser absorption spectrometry. <i>Physical Review A</i> , 2012, 86, .	2.5	11
78	Dual-laser frequency-stabilized cavity ring-down spectroscopy for water vapor density measurements. <i>Metrologia</i> , 2018, 55, 662-669.	1.2	11
79	Sub-Doppler spectroscopy of H ₂ 18O at 1.4 Å. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, 883-888.	2.2	10
80	Investigating the ultimate accuracy of Doppler-broadening thermometry by means of a global fitting procedure. <i>Physical Review A</i> , 2015, 92, .	2.5	10
81	Relativistic formulation of the Voigt profile. <i>Physical Review A</i> , 2015, 91, .	2.5	10
82	Lamb-dip cavity ring-down spectroscopy of acetylene at 1.4 Å. <i>New Journal of Physics</i> , 2021, 23, 123023.	2.9	10
83	Highly-accurate line shape studies in the near-IR spectrum of H ₂ 18O: Implications for the spectroscopic determination of the Boltzmann constant. <i>Journal of Physics: Conference Series</i> , 2012, 397, 012029.	0.4	9
84	Frequency-comb-assisted precision laser spectroscopy of CHF ₃ around 8.6 Å. <i>Journal of Chemical Physics</i> , 2015, 143, 234202.	3.0	9
85	Spectroscopic observation of the Faraday effect in the far infrared. <i>Optics Letters</i> , 1997, 22, 1896.	3.3	8
86	Pressure-Broadening Investigation of NO ₂ in the Near Infrared. <i>Journal of Molecular Spectroscopy</i> , 1997, 186, 207-212.	1.2	8
87	Laser Absorption Spectroscopy for Volcano Monitoring. <i>Optics and Photonics News</i> , 2006, 17, 24.	0.5	8
88	Optical feedback laser absorption spectroscopy of N ₂ O at 2 Å. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107190.	2.3	8
89	Temperature dependence of self-broadening in molecular-oxygen spectrum. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1996, 18, 557-564.	0.4	7
90	Investigation of the $b_1 \tilde{X} g + (v=0) \rightleftharpoons b_3 \tilde{X} g^+ (v=0)$ magnetic-dipole transitions in O ₂ 18. <i>Physical Review A</i> , 1997, 55, 4597-4600.	2.5	7

#	ARTICLE		IF	CITATIONS
91	Frequency-comb-calibrated Doppler broadening thermometry. <i>Physical Review A</i> , 2013, 88, .		2.5	7
92	Magnetic-field effects on molecular transitions in the far-infrared region: prospects for more-sensitive spectrometers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 301.		2.1	6
93	Narrow H ₂ 18O lines and new absolute frequency references in the near-IR. <i>Journal of Optics</i> , 2000, 2, 310-313.		1.5	6
94	Absolute molecular density determinations by direct referencing of a quantum cascade laser to an optical frequency comb. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 155-162.		2.2	6
95	The European Metrology Programme for Innovation and Research project: Implementing the new kelvin 2 (InK2). <i>Journal of Physics: Conference Series</i> , 2018, 1065, 122002.		0.4	6
96	Versatile mid-infrared frequency-comb referenced sub-Doppler spectrometer. <i>APL Photonics</i> , 2018, 3, .		5.7	6
97	Linearity of a silicon carbide photodiode in the deep-UV spectral region: implications on Doppler broadening thermometry. <i>Metrologia</i> , 2020, 57, 065001.		1.2	6
98	Tunable UV spectrometer for Doppler broadening thermometry of mercury. <i>Optics Letters</i> , 2020, 45, 3693.		3.3	6
99	A new approach to impedance atomic spectroscopy. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1990, 51, 87-90.		1.5	5
100	Polarization spectroscopy of atomic oxygen by dye and semiconductor diode lasers. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1991, 13, 1221-1234.		0.4	5
101	Gas concentration measurements with DFB lasers to monitor volcanic activity. , 1998, 3491, 783.			5
102	The IMERAPlus joint research project for determinations of the Boltzmann constant. , 2013, , .			5
103	Hyperfine structure effects in Doppler-broadening thermometry on water vapor at 1.4 $\text{Å}^{1/4}\text{m}$. <i>Metrologia</i> , 2016, 53, 800-804.		1.2	5
104	Isotope shifts and hyperfine structures investigation of doubly excited levels in SrI. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1992, 23, 145-149.		1.0	4
105	High resolution spectroscopy of iridium in a hollow cathode discharge. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 25, 113-116.		1.0	4
106	Measurement of the muon transfer rate from muonic hydrogen to oxygen in the range 70-336 K. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 403, 127401.		2.1	4
107	Absolute frequency stabilization of a QCL at 8.6 μm by modulation transfer spectroscopy. <i>Optics Letters</i> , 2020, 45, 4948.		3.3	4
108	Remote Measurements of Volcanic Gases With a Diode-Laser-Based Spectrometer. <i>Optics and Photonics News</i> , 2000, 11, 44.		0.5	3

#	ARTICLE	IF	CITATIONS
109	Modulational instability analysis of the cylindrical nonlinear von Neumann equation. <i>Journal of Plasma Physics</i> , 2013, 79, 443-446.	2.1	3
110	A thermostatic chamber for doppler-broadening thermometry of mercury vapors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 173, 108594.	5.0	3
111	Long-pathlength spectroscopy of O ₂ using the NICE-OHMS technique. , 1998, 3491, 794.		2
112	<title>Cavity-enhanced molecular spectroscopy: a powerful tool to detect trace gases</title>. , 1999, 3821, 90.		2
113	Optical methods in Earth Sciences. <i>Optics and Lasers in Engineering</i> , 2002, 37, 87-89.	3.8	2
114	Assessing Soil Respiration by Means of Near-Infrared Diode Laser Spectroscopy. <i>Applied Spectroscopy</i> , 2004, 58, 1051-1056.	2.2	2
115	Quiet Cascade: Measuring QCL Intrinsic Linewidth. <i>Optics and Photonics News</i> , 2010, 21, 32.	0.5	2
116	Rovibrational fine structure and transition dipole moment of CF ₃ H by frequency-comb-assisted saturated spectroscopy at 8.6 Å. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 373-379.	2.3	2
117	High-precision measurements of CO ₂ concentration in air by means of diode-laser absorption spectroscopy near 2 1/4 m. , 2001, , .		1
118	Method allows for continuous monitoring of volcanic gases. <i>Eos</i> , 2005, 86, 510.	0.1	1
119	Precision mid-infrared frequency combs and spectroscopic applications. <i>Proceedings of SPIE</i> , 2013, , , .	0.8	1
120	Doppler-Broadening Gas Thermometry at 1.39 1/4 m: Towards a New Spectroscopic Determination of the Boltzmann Constant. , 2016, , .		1
121	Dispersion and relativistic corrections to the spectral line-shape models. <i>Journal of Physics: Conference Series</i> , 2017, 810, 012062.	0.4	1
122	Evaluation of local heating in Doppler-broadening thermometry based on cavity ring-down spectroscopy. <i>Physical Review A</i> , 2019, 100, , .	2.5	1
123	Real-time monitoring of volcanic emissions with a laser-based fiber spectrometer. , 2004, , .		0
124	Absolute frequency spectroscopy at 4.3 µm by direct referencing of a Quantum-Cascade-Laser to an Er: Fiber laser-based frequency-comb. , 2011, , .		0
125	Comb-assisted precision spectroscopy of NH<inf>3</inf> at 9.1 μm. , 2013, , .		0
126	Metrology-grade sub-Doppler spectroscopy of CHF<inf>3</inf> at 8.6 1/4 m. , 2017, , .		0

ARTICLE

IF

CITATIONS

- 127 Absolute frequency metrology of the CHF₃ 8.6-Åμm ro-vibrational spectrum at cm^{-1} level. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 2020, 248, 106963.
- 128 Direct Referencing of a Quantum-Cascade-Laser at 4.3 Åμm to a Near-Infrared Frequency Comb. , 2011, , . 0
- 129 Precision spectroscopy of NH₃ at 9.1 1/4 m by a comb-referenced quantum cascade laser. , 2013, , . 0