

David A Long

List of Publications by Year in descending order

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43
papers

4,504
citations

361413

20
h-index

414414

32
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43
all docs

43
docs citations

43
times ranked

4051
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN2012 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 4-50.	2.3	2,810
2	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107949.	2.3	770
3	Coherent cavity-enhanced dual-comb spectroscopy. <i>Optics Express</i> , 2016, 24, 10424.	3.4	84
4	Frequency-stabilized cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2012, 536, 1-8.	2.6	72
5	O ₂ A-band line parameters to support atmospheric remote sensing. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2021-2036.	2.3	69
6	The air-broadened, near-infrared CO ₂ line shape in the spectrally isolated regime: Evidence of simultaneous Dicke narrowing and speed dependence. <i>Journal of Chemical Physics</i> , 2011, 135, 064308.	3.0	67
7	Multiplexed sub-Doppler spectroscopy with an optical frequency comb. <i>Physical Review A</i> , 2016, 94, .	2.5	53
8	Optical Measurement of Radiocarbon below Unity Fraction Modern by Linear Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4550-4556.	4.6	52
9	Broadband thermomechanically limited sensing with an optomechanical accelerometer. <i>Optica</i> , 2021, 8, 350.	9.3	46
10	Frequency-agile, rapid scanning spectroscopy: absorption sensitivity of $2\text{--}10\text{--}12\text{ cm}^{-1}\text{ Hz}^{-1/2}$ with a tunable diode laser. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 489-495.	2.2	43
11	Observations of Dicke narrowing and speed dependence in air-broadened CO ₂ lineshapes near $2.06\text{ }\mu\text{m}$. <i>Journal of Chemical Physics</i> , 2014, 141, 174301.	3.0	40
12	Frequency-agile, rapid scanning cavity ring-down spectroscopy (FARS-CRDS) measurements of the (30012) \leftarrow (00001) near-infrared carbon dioxide band. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 161, 35-40.	2.3	39
13	Twenty-Five-Fold Reduction in Measurement Uncertainty for a Molecular Line Intensity. <i>Physical Review Letters</i> , 2019, 123, 043001.	7.8	33
14	Absolute ¹² C ¹⁶ O ₂ transition frequencies at the kHz-level from 1.6 to 7.8 μm . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 112-115.	2.3	32
15	Quantum-noise-limited cavity ring-down spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 149-153.	2.2	31
16	Precision interferometric measurements of mirror birefringence in high-finesse optical resonators. <i>Physical Review A</i> , 2016, 93, .	2.5	27
17	Ultra-sensitive optical measurements of high-J transitions in the O ₂ A-band. <i>Chemical Physics Letters</i> , 2009, 483, 49-54.	2.6	25
18	Experimental Line Parameters of the $b_{1g} \leftarrow X_{3g}$ Band of Oxygen Isotopologues at 760 nm Using Frequency-Stabilized Cavity Ring-Down Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13089-13099.	2.5	25

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19	Absorption coefficient (ABSCO) tables for the Orbiting Carbon Observatories: Version 5.1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107217.	2.3	24
20	High Accuracy Near-Infrared Carbon Dioxide Intensity Measurements to Support Remote Sensing. Geophysical Research Letters, 2020, 47, e2019GL086344.	4.0	23
21	Electro-optic frequency combs generated via direct digital synthesis applied to sub-Doppler spectroscopy. OSA Continuum, 2019, 2, 3576.	1.8	23
22	Using a speed-dependent Voigt line shape to retrieve O ₂ and CO ₂ from Total Carbon Column Observing Network solar spectra to improve measurements of XCO ₂ . Atmospheric Measurement Techniques, 2019, 12, 35-50.	3.1	20
23	O ₂ A-band line parameters to support atmospheric remote sensing. Part II: The rare isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2527-2541.	2.3	19
24	Molecular transition frequencies of CO ₂ near 1.6 μ m with kHz-level uncertainties. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107681.	2.3	15
25	Improvement of the spectroscopic parameters of the air- and self-broadened N ₂ O and CO lines for the HITRAN2020 database applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107735.	2.3	13
26	Quantitative modeling of complex molecular response in coherent cavity-enhanced dual-comb spectroscopy. Journal of Molecular Spectroscopy, 2018, 352, 26-35.	1.2	12
27	Near-infrared cavity ring-down spectroscopy measurements of nitrous oxide in the (4200 \pm 0000) and (5000 \pm 0000) bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107527.	2.3	12
28	Rapid scan absorption spectroscopy using a waveform-driven electro-optic phase modulator in the 16 \pm 165 μ m region. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2696.	2.1	9
29	High accuracy spectroscopic parameters of the 1.27 μ m band of O ₂ measured with comb-referenced, cavity ring-down spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107684.	2.3	9
30	Air-broadening in near-infrared carbon dioxide line shapes: Quantifying contributions from O ₂ , N ₂ , and Ar. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107669.	2.3	4
31	Multiheterodyne Spectroscopy Using Multi-frequency Combs. , 2017, , .		1
32	Electro-optic frequency combs generated via direct digital synthesis applied to sub-Doppler spectroscopy. OSA Continuum, 2019, 2, .	1.8	1
33	The effects of advanced spectral line shapes on atmospheric carbon dioxide retrievals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 291, 108324.	2.3	1
34	Frequency-Stabilized Cavity Ring-Down Spectroscopy in the Mid-Infrared. , 2014, , .		0
35	Low Power Integrated Path Differential Absorption Lidar Detection of CO ₂ , CH ₄ and H ₂ O over a 5.5 km Path using a Waveform Driven EO Sideband Spectrometer. , 2015, , .		0
36	Precision Doppler-broadened and Sub-Doppler Absorption Spectroscopy using Optical Frequency Comb Generators. , 2016, , .		0

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37	First-Generation Linear Absorption Spectrometer for the Optical Trace-Detection of Radiocarbon. , 2017, , .		0
38	Towards the Robust Trace Detection of Radiocarbon via Linear Absorption Spectroscopy. , 2017, , .		0
39	Broadband Cavity-Enhanced Precision Molecular Spectroscopy using Electro-optic Frequency Combs. , 2017, , .		0
40	Accurate optical measurements of stable and radioactive carbon isotopologues of CO ₂ . , 2018, , .		0
41	Reducing Uncertainties of Molecular Line Intensities Via Cavity Ring-Down Spectroscopy Measurements and Ab Initio Calculations. , 2018, , .		0
42	Simultaneous DIAL, IPDA and point sensor measurements of the greenhouse gases, CO ₂ and H ₂ O. , 2019, , .		0
43	Accurate accelerometry using cavity optomechanics and electro-optic frequency combs. , 2021, , .		0