

David A Long

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,504
citations

361413

20
h-index

414414

32
g-index

43
all docs

43
docs citations

43
times ranked

4051
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949.	2.3	770
2	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
3	Broadband thermomechanically limited sensing with an optomechanical accelerometer. Optica, 2021, 8, 350.	9.3	46
4	Near-infrared cavity ring-down spectroscopy measurements of nitrous oxide in the (4200) and (5000) bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107527.	2.3	12
5	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
6	High accuracy spectroscopic parameters of the 1.27 μm 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
7	Molecular transition frequencies of CO ₂ near 1.6 μm with kHz-level uncertainties. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107681.	2.3	15
8	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
9	Accurate accelerometry using cavity optomechanics and electro-optic frequency combs. , 2021, , .		0
10	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
11	High Accuracy Near-Infrared Carbon Dioxide Intensity Measurements to Support Remote Sensing. Geophysical Research Letters, 2020, 47, e2019GL086344.	4.0	23
12	Twenty-Five-Fold Reduction in Measurement Uncertainty for a Molecular Line Intensity. Physical Review Letters, 2019, 123, 043001.	7.8	33
13	Using a speed-dependent Voigt line shape to retrieve O 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
14	Electro-optic frequency combs generated via direct digital synthesis applied to sub-Doppler spectroscopy. OSA Continuum, 2019, 2, 3576.	1.8	23
15	Simultaneous DIAL, IPDA and point sensor measurements of the greenhouse gases, CO ₂ and H ₂ O. , 2019, , .		0
16	Electro-optic frequency combs generated via direct digital synthesis applied to sub-Doppler spectroscopy. OSA Continuum, 2019, 2, .	1.8	1
17	Quantitative modeling of complex molecular response in coherent cavity-enhanced dual-comb spectroscopy. Journal of Molecular Spectroscopy, 2018, 352, 26-35.	1.2	12
18	Accurate optical measurements of stable and radioactive carbon isotopologues of CO ₂ . , 2018, , .		0

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37	Rapid scan absorption spectroscopy using a waveform-driven electro-optic phase modulator in the 16–165 μm region. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2696.	2.1	9
38	Frequency-stabilized cavity ring-down spectroscopy. <i>Chemical Physics Letters</i> , 2012, 536, 1-8.	2.6	72
39	O ₂ A-band line parameters to support atmospheric remote sensing. Part II: The rare isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2527-2541.	2.3	19
40	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
41	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
42	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
43	Experimental Line Parameters of the $b^1\text{g}^+ \leftarrow X^3\text{g}^-$ 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