

# An-Wen Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,112  
citations

516710

16  
h-index

414414

32  
g-index

51  
all docs

51  
docs citations

51  
times ranked

636  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2015 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2016, 327, 31-72.	1.2	311
2	Toward a Determination of the Proton-Electron Mass Ratio from the Lamb-Dip Measurement of HD. Physical Review Letters, 2018, 120, 153001.	7.8	67
3	Electric-quadrupole transition of $H_2$ determined to $10^{-5}$ accuracy. Journal of Molecular Spectroscopy, 2014, 300, 60-64.	2.5	58
4	Isolated $H_2$ absorption spectrum of deuterated water vapor enriched by $18O$ between $6000$ and $9200\text{cm}^{-1}$ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 653-669.	2.3	43
5	THE $v=3 \rightarrow 0$ S(0)-S(3) ELECTRIC QUADRUPOLE TRANSITIONS OF $H_2$ NEAR $0.8 \mu\text{m}$ . Astrophysical Journal, 2012, 749, 76.	4.5	38
7	Cavity ring-down spectroscopy of the electric quadrupole transitions of $H_2$ in the $7846\text{--}952\text{ nm}$ region. Journal of Molecular Spectroscopy, 2014, 300, 60-64.	1.2	32
8	Cavity ring-down spectroscopy of Doppler-broadened absorption line with sub-MHz absolute frequency accuracy. Optics Express, 2012, 20, 9956.	3.4	28
9	Communication: Molecular near-infrared transitions determined with sub-kHz accuracy. Journal of Chemical Physics, 2017, 147, 091103.	3.0	28
10	Comb-locked cavity ring-down saturation spectroscopy. Review of Scientific Instruments, 2017, 88, 043108.	1.3	27
11	Ultrasensitive near-infrared cavity ring-down spectrometer for precise line profile measurement. Review of Scientific Instruments, 2010, 81, 043105.	1.3	26
12	$H_2$ -He collisions: Ab initio theory meets cavity-enhanced spectra. Physical Review A, 2020, 101, .	2.5	24
13	Fourier-transform spectroscopy of $^{14}\text{N}^{15}\text{N}^{16}\text{O}$ in the $3800\text{--}9000\text{cm}^{-1}$ region and global modeling of its absorption spectrum. Journal of Molecular Spectroscopy, 2008, 248, 41-60.	1.2	20
14	Global fittings of $^{14}\text{N}^{15}\text{N}^{16}\text{O}$ and $^{15}\text{N}^{14}\text{N}^{16}\text{O}$ vibrational-rotational line positions using the effective Hamiltonian approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1089-1105.	2.3	20
15	CW-Cavity Ring Down Spectroscopy of deuterated water in the $1.58\text{--}1.4\text{ }\mu\text{m}$ atmospheric transparency window. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 138, 97-106.	2.3	19
16	High-resolution spectroscopy of the triple-substituted isotopologue of water molecule $D_2^{18}\text{O}$ : the first triad. Molecular Physics, 2008, 106, 1793-1801.	1.7	17
17	Optical-Optical Double-Resonance Absorption Spectroscopy of Molecules with Kilohertz Accuracy. Journal of Physical Chemistry Letters, 2020, 11, 7843-7848.	4.6	17
18	A well-isolated vibrational state of $\text{CO}_2$ verified by near-infrared saturated spectroscopy with kHz accuracy. Physical Chemistry Chemical Physics, 2020, 22, 2841-2848.	2.8	16

#	ARTICLE	IF	CITATIONS
19	Fourier-transform spectroscopy of $^{15}\text{N}^{14}\text{N}^{16}\text{O}$ in the $3500\text{--}9000\text{cm}^{-1}$ region. <i>Journal of Molecular Spectroscopy</i> , 2009, 255, 24-31.	1.2	15
20	Line intensities of the $30011_e\text{--}00001_e$ band of $^{12}\text{C}^{16}\text{O}_2$ by laser-locked cavity ring-down spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 207, 1-7.	2.3	15
21	High sensitivity cavity ring down spectroscopy of $\text{CO}_2$ overtone bands near 790nm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 761-768.	2.3	14
22	Frequency metrology of the acetylene lines near 789Ånm from lamb-dip measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 210, 111-115.	2.3	14
23	Absolute frequencies of water lines near 790 nm with $10^{-11}$ accuracy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 205, 91-95.	2.3	14
24	Cavity ring-down spectroscopy of the bands of $^{15}\text{N}$ substituted $\text{N}_2\text{O}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2370-2381.	2.3	13
25	Cavity ring-down spectroscopy of the fifth overtone of $\text{CO}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 274-279.	2.3	13
26	LINE PARAMETERS OF THE 782 nm BAND OF $\text{CO}_2$ . <i>Astrophysical Journal</i> , 2013, 775, 71.	4.5	12
27	High sensitivity cavity ring down spectroscopy of $^{13}\text{C}^{16}\text{O}_2$ overtone bands near 806nm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2197-2204.	2.3	11
28	Cavity ring-down spectroscopy of $^{15}\text{N}$ enriched $\text{N}_2\text{O}$ near $1.56\text{--}1.6\mu\text{m}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 232, 1-9.	2.3	11
29	Cavity ring down spectroscopy of $^{18}\text{O}$ and $^{17}\text{O}$ enriched carbon dioxide near 795nm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 114, 42-44.	2.3	10
30	Cavity ring-down spectroscopy of $\text{CO}_2$ overtone bands near 830 nm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 165, 22-27.	2.3	10
31	Cavity-enhanced saturation spectroscopy of molecules with sub-kHz accuracy. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 107-112.	1.3	10
32	Fourier transform absorption spectrum of in $7360\text{--}8440\text{cm}^{-1}$ spectral region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2197-2210.	2.3	9
33	Quantitative Moisture Measurement with a Cavity Ring-down Spectrometer using Telecom Diode Lasers. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 6-10.	1.3	9
34	CRDS absorption spectrum of $^{17}\text{O}$ enriched water vapor in the $12,277\text{--}12,894\text{cm}^{-1}$ range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 221, 233-242.	2.3	9
35	The $4\frac{1}{2}$ overtone of $^{12}\text{C}_2\text{H}_2$ : Sub-MHz precision spectrum reveals perturbations. <i>Journal of Chemical Physics</i> , 2013, 138, 014312.	3.0	8
36	Saturated absorption spectroscopy near $1.57\mu\text{m}$ and revised rotational line list of $^{12}\text{C}^{16}\text{O}$ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 270, 107717.	2.3	8

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37	Cavity-enhanced saturated absorption spectroscopy of the (30012) $\hat{\nu}$ (00001) band of $^{12}\text{C}^{16}\text{O}_2$ . Journal of Chemical Physics, 2022, 156, 044201.	3.0	8
38	High-resolution infrared spectroscopy of in the $3500\hat{\sim}9000\text{cm}^{-1}$ region. Journal of Molecular Spectroscopy, 2010, 259, 20-25.	1.2	7
39	H <sub>2</sub> O line positions in the $784\hat{\sim}795\text{nm}$ region with $10\hat{\sim}9$ accuracy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 118, 96-101.	2.3	7
40	Field Measurement of NO <sub>2</sub> and RNO <sub>2</sub> by Two-Channel Thermal Dissociation Cavity Ring Down Spectrometer. Chinese Journal of Chemical Physics, 2017, 30, 493-498.	1.3	6
41	Global modeling of the $^{15}\text{N}^{216}\text{O}$ line positions within the framework of the polyad model of effective Hamiltonian and a room temperature $^{15}\text{N}^{216}\text{O}$ line list. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 175, 1-7.	2.3	5
42	Cavity ring-down spectroscopy of $^{17}\text{O}$ -enriched water vapor between $12,055$ and $12,260\hat{\sim}\text{cm}^{-1}$ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 239, 106651.	2.3	4
43	High-resolution Infrared Spectroscopy of $^{15}\text{N}^{216}\text{O}$ in $1650\hat{\sim}3450\text{cm}^{-1}$ . Chinese Journal of Chemical Physics, 2011, 24, 611-619.	1.3	3
44	Water line positions in the $782\hat{\sim}840\text{nm}$ region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 37-44.	2.3	3
45	Comb-locked cavity-assisted double-resonance molecular spectroscopy based on diode lasers. Review of Scientific Instruments, 2021, 92, 073003.	1.3	3
46	C <sub>2</sub> H <sub>2</sub> Overtones Near $12300\text{cm}^{-1}$ Revisited with a Very Sensitive Cavity Ring-down Spectrometer. Chinese Journal of Chemical Physics, 2009, 22, 663-667.	1.3	2
47	Broad-Range Detection of Water Vapor using Cavity Ring-down Spectrometer. Chinese Journal of Chemical Physics, 2015, 28, 440-444.	1.3	2
48	High Precision Cavity Ring Down Spectroscopy of $6\hat{1}/2\text{N}^{14}\text{N}^{2}\text{O}^{16}$ Overtone Band of $^{14}\text{N}^{2}\text{O}^{16}$ near $775\text{nm}$ . Chinese Journal of Chemical Physics, 2017, 30, 487-492.	1.3	2
49	Cavity ring-down spectroscopy measurements of ambient NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> . Chinese Journal of Chemical Physics, 2020, 33, 1-7.	1.3	2
50	SiH <sub>2</sub> Cl <sub>2</sub> : Ab initio anharmonic force field, dipole moments, and infrared vibrational transitions. Journal of Chemical Physics, 2005, 123, 174305.	3.0	1