

Richard Wehr

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,201
citations

361045

20
h-index

476904

29
g-index

50
all docs

50
docs citations

50
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	Global modelling of soil carbonyl sulfide exchanges. <i>Biogeosciences</i> , 2022, 19, 2427-2463.	1.3	10
2	Carbonyl sulfide: comparing a mechanistic representation of the vegetation uptake in a land surface model and the leaf relative uptake approach. <i>Biogeosciences</i> , 2021, 18, 2917-2955.	1.3	21
3	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , 2021, 27, 6005-6024.	4.2	73
4	Calculating canopy stomatal conductance from eddy covariance measurements, in light of the energy budget closure problem. <i>Biogeosciences</i> , 2021, 18, 13-24.	1.3	15
5	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). <i>Biogeosciences</i> , 2021, 18, 6547-6565.	1.3	21
6	Spatiotemporal Controls on Observed Daytime Ozone Deposition Velocity Over Northeastern U.S. Forests During Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5612-5628.	1.2	24
7	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. <i>Biogeosciences</i> , 2018, 15, 3625-3657.	1.3	98
8	Does vapor pressure deficit drive the seasonality of $\delta^{13}\text{C}$ of the net land-atmosphere CO_2 exchange across the United States?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1969-1987.	1.3	3
9	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , 2017, 23, 1240-1257.	4.2	102
10	Dynamics of canopy stomatal conductance, transpiration, and evaporation in a temperate deciduous forest, validated by carbonyl sulfide uptake. <i>Biogeosciences</i> , 2017, 14, 389-401.	1.3	88
11	The long-solved problem of the best-fit straight line: application to isotopic mixing lines. <i>Biogeosciences</i> , 2017, 14, 17-29.	1.3	28
12	Seasonality of temperate forest photosynthesis and daytime respiration. <i>Nature</i> , 2016, 534, 680-683.	13.7	196
13	An improved isotopic method for partitioning net ecosystem-atmosphere CO_2 exchange. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 515-531.	1.9	49
14	Development and field testing of a rapid and ultra-stable atmospheric carbon dioxide spectrometer. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4445-4453.	1.2	2
15	Long-term eddy covariance measurements of the isotopic composition of the ecosystem-atmosphere exchange of CO_2 in a temperate forest. <i>Agricultural and Forest Meteorology</i> , 2013, 181, 69-84.	1.9	35
16	The impact theory of spectral line shapes: a paradigm shift. <i>Canadian Journal of Physics</i> , 2013, 91, 879-895.	0.4	25
17	The line shape problem in the near-infrared spectrum of self-colliding CO_2 molecules: Experimental investigation and test of semiclassical models. <i>Journal of Chemical Physics</i> , 2009, 130, 184306.	1.2	54
18	Optical feedback cavity-enhanced absorption spectroscopy for in situ measurements of the ratio $^{13}\text{C}:^{12}\text{C}$ in CO_2 . <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 459.	1.1	28

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19	Primary Gas Thermometry by Means of Laser-Absorption Spectroscopy: Determination of the Boltzmann Constant. <i>Physical Review Letters</i> , 2008, 100, 200801.	2.9	83
20	Highly accurate determinations of CO ₂ line strengths using intensity-stabilized diode laser absorption spectrometry. <i>Journal of Chemical Physics</i> , 2007, 127, 084311.	1.2	30
21	Design of a difference-frequency infrared laser spectrometer for absorption line-shape studies. <i>Applied Optics</i> , 2007, 46, 978.	2.1	8
22	Dicke-Narrowed Line Shapes in CO-Ar: Measurements, Calculations, and a Revised Interpretation. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
23	Collisional line shifting and broadening in the fundamental P-branch of CO in Ar between 214 and 324K. <i>Journal of Molecular Spectroscopy</i> , 2006, 235, 69-76.	0.4	27
24	Dicke-narrowed spectral line shapes of CO in Ar: Experimental results and a revised interpretation. <i>Journal of Molecular Spectroscopy</i> , 2006, 235, 54-68.	0.4	53
25	Broadening, shifting, and line mixing in the 0310 $\hat{+}$ 0110 parallel Q branch of N ₂ O. <i>Journal of Molecular Spectroscopy</i> , 2004, 226, 71-80.	0.4	12
26	Dynamic Spectroscopic Measurements of the Temperature and Pressure Cycles in a MOPITT Pressure Modulator Cell. <i>Applied Optics</i> , 2003, 42, 6595.	2.1	6
27	Spectral line shape of the P(2) transition in CO-Ar: Uncorrelated ab initio calculation. <i>Physical Review A</i> , 2002, 66, .	1.0	42
28	High Resolution and High Signal-to-Noise Measurements in the 0310 $\hat{+}$ 0110 Q-Branch of N ₂ O at 1160 cm $\hat{^{-}}$ 1. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
29	Comparison of an ab initio calculation of the CO-Ar P(2) line shape with high-resolution measurements. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
30	Shifting and broadening in the fundamental band of CO highly diluted in He and Ar: A comparison with theory. <i>Journal of Chemical Physics</i> , 2001, 115, 2198-2206.	1.2	61