

Richard Wehr

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,201
citations

361413
20
h-index

477307
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. Biogeosciences, 2022, 19, 2427-2463.	3.3	10
2	Carbonyl sulfide: comparing a mechanistic representation of the vegetation uptake in a land surface model and the leaf relative uptake approach. Biogeosciences, 2021, 18, 2917-2955.	3.3	21
3	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	9.5	73
4	Calculating canopy stomatal conductance from eddy covariance measurements, in light of the energy budget closure problem. Biogeosciences, 2021, 18, 13-24.	3.3	15
5	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). Biogeosciences, 2021, 18, 6547-6565.	3.3	21
6	Spatiotemporal Controls on Observed Daytime Ozone Deposition Velocity Over Northeastern U.S. Forests During Summer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5612-5628.	3.3	24
7	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657.	3.3	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?. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1969-1987.	3.0	3
9	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. Global Change Biology, 2017, 23, 1240-1257.	9.5	102
10	Dynamics of canopy stomatal conductance, transpiration, and evaporation in a temperate deciduous forest, validated by carbonyl sulfide uptake. Biogeosciences, 2017, 14, 389-401.	3.3	88
11	The long-solved problem of the best-fit straight line: application to isotopic mixing lines. Biogeosciences, 2017, 14, 17-29.	3.3	28
12	Seasonality of temperate forest photosynthesis and daytime respiration. Nature, 2016, 534, 680-683.	27.8	196
13	An improved isotopic method for partitioning net ecosystem-atmosphere CO_2 exchange. Agricultural and Forest Meteorology, 2015, 214-215, 515-531.	4.8	49
14	Development and field testing of a rapid and ultra-stable atmospheric carbon dioxide spectrometer. Atmospheric Measurement Techniques, 2014, 7, 4445-4453.	3.1	2
15	Long-term eddy covariance measurements of the isotopic composition of the ecosystem-atmosphere exchange of CO_2 in a temperate forest. Agricultural and Forest Meteorology, 2013, 181, 69-84.	4.8	35
16	The impact theory of spectral line shapes: a paradigm shift. Canadian Journal of Physics, 2013, 91, 879-895.	1.1	25
17	The line shape problem in the near-infrared spectrum of self-colliding CO_2 molecules: Experimental investigation and test of semiclassical models. Journal of Chemical Physics, 2009, 130, 184306.	3.0	54
18	Optical feedback cavity-enhanced absorption spectroscopy for in situ measurements of the ratio $^{13}\text{C}:^{12}\text{C}$ in CO_2 . Applied Physics B: Lasers and Optics, 2008, 92, 459.	2.2	28

#	ARTICLE	IF	CITATIONS
19	Primary Gas Thermometry by Means of Laser-Absorption Spectroscopy: Determination of the Boltzmann Constant. Physical Review Letters, 2008, 100, 200801.	7.8	83
20	Highly accurate determinations of CO ₂ line strengths using intensity-stabilized diode laser absorption spectrometry. Journal of Chemical Physics, 2007, 127, 084311.	3.0	30
21	Design of a difference-frequency infrared laser spectrometer for absorption line-shape studies. Applied Optics, 2007, 46, 978.	2.1	8
22	Dicke-Narrowed Line Shapes in CO-Ar: Measurements, Calculations, and a Revised Interpretation. AIP Conference Proceedings, 2006, , .	0.4	0
23	Collisional line shifting and broadening in the fundamental P-branch of CO in Ar between 214 and 324K. Journal of Molecular Spectroscopy, 2006, 235, 69-76.	1.2	27
24	Dicke-narrowed spectral line shapes of CO in Ar: Experimental results and a revised interpretation. Journal of Molecular Spectroscopy, 2006, 235, 54-68.	1.2	53
25	Broadening, shifting, and line mixing in the 0310â†0110 parallel Q branch of N ₂ O. Journal of Molecular Spectroscopy, 2004, 226, 71-80.	1.2	12
26	Dynamic Spectroscopic Measurements of the Temperature and Pressure Cycles in a MOPITT Pressure Modulator Cell. Applied Optics, 2003, 42, 6595.	2.1	6
27	Spectral line shape of the P(2) transition in CO-Ar: Uncorrelated ab initio calculation. Physical Review A, 2002, 66, .	2.5	42
28	High Resolution and High Signal-to-Noise Measurements in the 0310 â†0110 Q-Branch of N ₂ O at 1160 cm ⁻¹ . AIP Conference Proceedings, 2002, , .	0.4	0
29	Comparison of an ab initio calculation of the CO-Ar P(2) line shape with high-resolution measurements. AIP Conference Proceedings, 2002, , .	0.4	0
30	Shifting and broadening in the fundamental band of CO highly diluted in He and Ar: A comparison with theory. Journal of Chemical Physics, 2001, 115, 2198-2206.	3.0	61