

I T Baker

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,662
citations

87843

38
h-index

88593

70
g-index

81
all docs

81
docs citations

81
times ranked

6370
citing authors

#	ARTICLE	IF	CITATIONS
1	The Common Land Model. Bulletin of the American Meteorological Society, 2003, 84, 1013-1024.	1.7	1,058
2	Evaluation of forest snow processes models (SnowMIP2). Journal of Geophysical Research, 2009, 114, .	3.3	290
3	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	274
4	Seasonal drought stress in the Amazon: Reconciling models and observations. Journal of Geophysical Research, 2008, 113, .	3.3	248
5	A model-data intercomparison of CO ₂ exchange across North America: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	247
6	Terrestrial biosphere model performance for interannual variability of land-atmosphere CO ₂ exchange. Global Change Biology, 2012, 18, 1971-1987.	4.2	232
7	Photosynthetic Control of Atmospheric Carbonyl Sulfide During the Growing Season. Science, 2008, 322, 1085-1088.	6.0	196
8	A coupled model of the global cycles of carbonyl sulfide and CO ₂ : A possible new window on the carbon cycle. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 842-852.	1.3	149
9	Incorporation of crop phenology in Simple Biosphere Model (SiBcrop) to improve land-atmosphere carbon exchanges from croplands. Biogeosciences, 2009, 6, 969-986.	1.3	144
10	TransCom model simulations of hourly atmospheric CO ₂ : Experimental overview and diurnal cycle results for 2002. Global Biogeochemical Cycles, 2008, 22, .	1.9	142
11	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. Journal of Geophysical Research, 2008, 113, .	3.3	138
12	TransCom model simulations of hourly atmospheric CO ₂ : Analysis of synoptic-scale variations for the period 2002-2003. Global Biogeochemical Cycles, 2008, 22, .	1.9	119
13	A regional high-resolution carbon flux inversion of North America for 2004. Biogeosciences, 2010, 7, 1625-1644.	1.3	106
14	A global reanalysis of vegetation phenology. Journal of Geophysical Research, 2011, 116, .	3.3	105
15	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	1.9	105
16	Simulations of chlorophyll fluorescence incorporated into the Community Land Model version 4. Global Change Biology, 2015, 21, 3469-3477.	4.2	95
17	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	1.3	92
18	Interpreting seasonal changes in the carbon balance of southern Amazonia using measurements of XCO ₂ and chlorophyll fluorescence from GOSAT. Geophysical Research Letters, 2013, 40, 2829-2833.	1.5	89

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19	Simulated and observed fluxes of sensible and latent heat and CO ₂ at the WLEF-TV tower using SiB2.5. <i>Global Change Biology</i> , 2003, 9, 1262-1277.	4.2	88
20	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	79
21	Simulated variations in atmospheric CO ₂ over a Wisconsin forest using a coupled ecosystem-atmosphere model. <i>Global Change Biology</i> , 2003, 9, 1241-1250.	4.2	76
22	Evaluation of continental carbon cycle simulations with North American flux tower observations. <i>Ecological Monographs</i> , 2013, 83, 531-556.	2.4	75
23	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
24	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several land surface models: An NACP analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1458-1473.	1.3	69
25	Seasonal fluxes of carbonyl sulfide in a midlatitude forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14162-14167.	3.3	69
26	Observations and simulations of synoptic, regional, and local variations in atmospheric CO ₂ . <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	61
27	Sensitivity, uncertainty and time dependence of parameters in a complex land surface model. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 268-287.	1.9	60
28	Mechanisms for synoptic variations of atmospheric CO ₂ in North America, South America and Europe. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7239-7254.	1.9	60
29	Improving simulated soil temperatures and soil freeze/thaw at high-latitude regions in the Simple Biosphere/Carnegie-Ames-Stanford Approach model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	59
30	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 111-127.	1.9	55
31	Effect of climate on interannual variability of terrestrial CO ₂ fluxes. <i>Global Biogeochemical Cycles</i> , 2002, 16, 49-1-49-12.	1.9	51
32	A multiple-scale simulation of variations in atmospheric carbon dioxide using a coupled biosphere-atmospheric model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	51
33	Impact of hydrological variations on modeling of peatland CO ₂ fluxes: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
34	Interannual variability of photosynthesis across Africa and its attribution. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	45
35	Impact of Evapotranspiration on Dry Season Climate in the Amazon Forest*. <i>Journal of Climate</i> , 2014, 27, 574-591.	1.2	45
36	Tropical sources and sinks of carbonyl sulfide observed from space. <i>Geophysical Research Letters</i> , 2015, 42, 10,082.	1.5	44

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37	Possible representation errors in inversions of satellite CO ₂ retrievals. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	43
38	Estimate of carbonyl sulfide tropical oceanic surface fluxes using Aura Tropospheric Emission Spectrometer observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,012.	1.2	43
39	North American gross primary productivity: regional characterization and interannual variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 533.	0.8	41
40	Peak growing season gross uptake of carbon in North America is largest in the Midwest USA. <i>Nature Climate Change</i> , 2017, 7, 450-454.	8.1	39
41	Spring enhancement and summer reduction in carbon uptake during the 2018 drought in northwestern Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190509.	1.8	39
42	Closing the scale gap between land surface parameterizations and GCMs with a new scheme, SIB3-ins. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 691-711.	1.3	38
43	Role of deep soil moisture in modulating climate in the Amazon rainforest. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	33
44	Novel applications of carbon isotopes in atmospheric CO ₂ : what can atmospheric measurements teach us about processes in the biosphere?. <i>Biogeosciences</i> , 2011, 8, 3093-3106.	1.3	30
45	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 145-155.	1.9	30
46	Evaluating the agreement between measurements and models of net ecosystem exchange at different times and timescales using wavelet coherence: an example using data from the North American Carbon Program Site-Level Interim Synthesis. <i>Biogeosciences</i> , 2013, 10, 6893-6909.	1.3	30
47	Seasonal Characteristics of Model Uncertainties From Biogenic Fluxes, Transport, and Large-Scale Boundary Inflow in Atmospheric CO ₂ Simulations Over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 14325-14346.	1.2	26
48	Improved Constraints on Northern Extratropical CO ₂ Fluxes Obtained by Combining Surface-Based and Space-Based Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032029.	1.2	26
49	Does terrestrial drought explain global CO ₂ flux anomalies induced by El Niño?. <i>Biogeosciences</i> , 2011, 8, 2493-2506.	1.3	25
50	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. <i>Biogeochemistry</i> , 2016, 129, 53-76.	1.7	24
51	Wide discrepancies in the magnitude and direction of modeled solar-induced chlorophyll fluorescence in response to light conditions. <i>Biogeosciences</i> , 2020, 17, 3733-3755.	1.3	24
52	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solar-Induced Fluorescence and Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2976-2997.	1.3	21
53	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO ₂ seasonal cycle amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
54	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). <i>Biogeosciences</i> , 2021, 18, 6547-6565.	1.3	21

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55	Towards understanding the variability in biospheric CO ₂ fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2123-2138.	1.9	20
56	Representing Grasslands Using Dynamic Prognostic Phenology Based on Biological Growth Stages: 1. Implementation in the Simple Biosphere Model (SiB4). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4423-4439.	1.3	20
57	The Atmospheric Carbon and Transport (ACT)-America Mission. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1714-E1734.	1.7	17
58	A Multiyear Gridded Data Ensemble of Surface Biogenic Carbon Fluxes for North America: Evaluation and Analysis of Results. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005314.	1.3	14
59	A Modified Vegetation Photosynthesis and Respiration Model (VPRM) for the Eastern USA and Canada, Evaluated With Comparison to Atmospheric Observations and Other Biospheric Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, e2021JG006290.	1.3	13
60	Plant Uptake of Atmospheric Carbonyl Sulfide in Coast Redwood Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3391-3404.	1.3	11
61	Representing Grasslands Using Dynamic Prognostic Phenology Based on Biological Growth Stages: Part 2. Carbon Cycling. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4440-4465.	1.3	11
62	Covariation of Airborne Biogenic Tracers (CO ₂ , COS, and CO) Supports Stronger Than Expected Growing Season Photosynthetic Uptake in the Southeastern US. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006956.	1.9	7
63	Remotely Sensed Carbonyl Sulfide Constrains Model Estimates of Amazon Primary Productivity. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
64	Sensitivity of land-atmosphere exchanges to overshooting PBL thermals in an idealized coupled model. <i>Journal of Advances in Modeling Earth Systems</i> , 2009, 2, .	1.3	6
65	Surface-Atmosphere Coupling Scale, the Fate of Water, and Ecophysiological Function in a Brazilian Forest. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2523-2546.	1.3	6
66	Understanding water and energy fluxes in the Amazonia: Lessons from an observation-model intercomparison. <i>Global Change Biology</i> , 2021, 27, 1802-1819.	4.2	6
67	Joint CO ₂ Mole Fraction and Flux Analysis Confirms Missing Processes in CASA Terrestrial Carbon Uptake Over North America. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006914.	1.9	6
68	Accurate Simulation of Both Sensitivity and Variability for Amazonian Photosynthesis: Is It Too Much to Ask?. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002555.	1.3	3
69	A sampling method for improving the representation of spatially varying precipitation and soil moisture using the Simple Biosphere Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 9-20.	1.3	2
70	Exploring the Potential of Using Carbonyl Sulfide to Track the Urban Biosphere Signal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034106.	1.2	2