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	North American gross primary productivity: regional characterization and interannual variability. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 533.	0.8	41
2	A Modified Vegetation Photosynthesis and Respiration Model (VPRM) for the Eastern USA and Canada, Evaluated With Comparison to Atmospheric Observations and Other Biospheric Models. Journal of Geophysical Research G: Biogeosciences, 2022, 127, e2021JG006290.	1.3	13
3	Remotely Sensed Carbonyl Sulfide Constrains Model Estimates of Amazon Primary Productivity. Geophysical Research Letters, 2022, 49, .	1.5	7
4	Understanding water and energy fluxes in the Amazonia: Lessons from an observationâ€model intercomparison. Global Change Biology, 2021, 27, 1802-1819.	4.2	6
5	Exploring the Potential of Using Carbonyl Sulfide to Track the Urban Biosphere Signal. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034106.	1.2	2
6	Joint CO₂ Mole Fraction and Flux Analysis Confirms Missing Processes in CASA Terrestrial Carbon Uptake Over North America. Global Biogeochemical Cycles, 2021, 35, e2020GB006914.	1.9	6
7	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO ₂ seasonal cycle amplification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
8	Accurate Simulation of Both Sensitivity and Variability for Amazonian Photosynthesis: Is It Too Much to Ask?. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002555.	1.3	3
9	Covariation of Airborne Biogenic Tracers (CO₂, COS, and CO) Supports Stronger Than Expected Growing Season Photosynthetic Uptake in the Southeastern US. Global Biogeochemical Cycles, 2021, 35, e2021GB006956.	1.9	7
10	The Atmospheric Carbon and Transport (ACT)-America Mission. Bulletin of the American Meteorological Society, 2021, 102, E1714-E1734.	1.7	17
11	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). Biogeosciences, 2021, 18, 6547-6565.	1.3	21
12	Wide discrepancies in the magnitude and direction of modeled solar-induced chlorophyll fluorescence in response to light conditions. Biogeosciences, 2020, 17, 3733-3755.	1.3	24
13	Spring enhancement and summer reduction in carbon uptake during the 2018 drought in northwestern Europe. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190509.	1.8	39
14	Improved Constraints on Northern Extratropical CO₂ Fluxes Obtained by Combining Surfaceâ€Based and Spaceâ€Based Atmospheric CO₂ Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032029.	1.2	26
15	A Multiyear Gridded Data Ensemble of Surface Biogenic Carbon Fluxes for North America: Evaluation and Analysis of Results. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005314.	1.3	14
16	Surfaceâ€Atmosphere Coupling Scale, the Fate of Water, and Ecophysiological Function in a Brazilian Forest. Journal of Advances in Modeling Earth Systems, 2019, 11, 2523-2546.	1.3	6
17	Representing Grasslands Using Dynamic Prognostic Phenology Based on Biological Growth Stages: Part 2. Carbon Cycling. Journal of Advances in Modeling Earth Systems, 2019, 11, 4440-4465.	1.3	11
18	Representing Grasslands Using Dynamic Prognostic Phenology Based on Biological Growth Stages: 1. Implementation in the Simple Biosphere Model (SiB4). Journal of Advances in Modeling Earth Systems, 2019, 11, 4423-4439.	1.3	20

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19	Seasonal Characteristics of Model Uncertainties From Biogenic Fluxes, Transport, and Largeâ€Scale Boundary Inflow in Atmospheric CO₂ Simulations Over North America. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14325-14346.	1.2	26
20	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solarâ€Induced Fluorescence and Atmospheric CO₂ Measurements. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2976-2997.	1.3	21
21	Peak growing season gross uptake of carbon in North America is largest in the Midwest USA. Nature Climate Change, 2017, 7, 450-454.	8.1	39
22	Plant Uptake of Atmospheric Carbonyl Sulfide in Coast Redwood Forests. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3391-3404.	1.3	11
23	Closing the scale gap between land surface parameterizations and <scp>GCM</scp>s with a new scheme, <scp>S</scp>i<scp>B</scp>3â€<scp>B</scp>ins. Journal of Advances in Modeling Earth Systems, 2017, 9, 691-711.	1.3	38
24	Towards understanding the variability in biospheric CO₂Âfluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO₂. Atmospheric Chemistry and Physics, 2016, 16, 2123-2138.	1.9	20
25	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. Biogeochemistry, 2016, 129, 53-76.	1.7	24
26	Tropical sources and sinks of carbonyl sulfide observed from space. Geophysical Research Letters, 2015, 42, 10,082.	1.5	44
27	Simulations of chlorophyll fluorescence incorporated into the <scp>C</scp>ommunity <scp>L</scp>and <scp>M</scp>odel version 4. Global Change Biology, 2015, 21, 3469-3477.	4.2	95
28	Estimate of carbonyl sulfide tropical oceanic surface fluxes using Aura Tropospheric Emission Spectrometer observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,012.	1.2	43
29	Seasonal fluxes of carbonyl sulfide in a midlatitude forest. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14162-14167.	3.3	69
30	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	1.3	92
31	A sampling method for improving the representation of spatially varying precipitation and soil moisture using the Simple Biosphere Model. Journal of Advances in Modeling Earth Systems, 2014, 6, 9-20.	1.3	2
32	Impact of Evapotranspiration on Dry Season Climate in the Amazon Forest*. Journal of Climate, 2014, 27, 574-591.	1.2	45
33	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
34	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several landâ€surface models: An NACP analysis. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1458-1473.	1.3	69
35	Evaluation of continental carbon cycle simulations with North American flux tower observations. Ecological Monographs, 2013, 83, 531-556.	2.4	75
36	Overview of the Large-Scale Biosphereâ€“Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	1.9	55

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37	Interpreting seasonal changes in the carbon balance of southern Amazonia using measurements of XCO₂ and chlorophyll fluorescence from GOSAT. Geophysical Research Letters, 2013, 40, 2829-2833.	1.5	89
38	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155.	1.9	30
39	A coupled model of the global cycles of carbonyl sulfide and CO₂: A possible new window on the carbon cycle. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 842-852.	1.3	149
40	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. Biogeosciences, 2013, 10, 6893-6909.	1.3	30
41	Terrestrial biosphere model performance for interâ€annual variability of landâ€atmosphere <scp><scp>CO₂</scp></scp> exchange. Global Change Biology, 2012, 18, 1971-1987.	4.2	232
42	Impact of hydrological variations on modeling of peatland CO₂ fluxes: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	50
43	A modelâ€data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.3	274
44	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. Journal of Geophysical Research, 2012, 117, .	3.3	79
45	A global reanalysis of vegetation phenology. Journal of Geophysical Research, 2011, 116, .	3.3	105
46	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. Journal of Geophysical Research, 2011, 116, .	3.3	72
47	Novel applications of carbon isotopes in atmospheric CO₂: what can atmospheric measurements teach us about processes in the biosphere?. Biogeosciences, 2011, 8, 3093-3106.	1.3	30
48	Does terrestrial drought explain global CO₂ flux anomalies induced by El NiÃ±o?. Biogeosciences, 2011, 8, 2493-2506.	1.3	25
49	A regional high-resolution carbon flux inversion of North America for 2004. Biogeosciences, 2010, 7, 1625-1644.	1.3	106
50	Role of deep soil moisture in modulating climate in the Amazon rainforest. Geophysical Research Letters, 2010, 37, .	1.5	33
51	A modelâ€data intercomparison of CO₂ exchange across North America: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	247
52	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
53	Sensitivity of land-atmosphere exchanges to overshooting PBL thermals in an idealized coupled model. Journal of Advances in Modeling Earth Systems, 2009, 2, .	1.3	6
54	Evaluation of forest snow processes models (SnowMIP2). Journal of Geophysical Research, 2009, 114, .	3.3	290

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55	Improving simulated soil temperatures and soil freeze/thaw at highâ€latitude regions in the Simple Biosphere/Carnegieâ€Amesâ€Stanford Approach model. Journal of Geophysical Research, 2009, 114, .	3.3	59
56	TransCom model simulations of hourly atmospheric CO₂: Experimental overview and diurnal cycle results for 2002. Global Biogeochemical Cycles, 2008, 22, .	1.9	142
57	TransCom model simulations of hourly atmospheric CO₂: Analysis of synopticâ€scale variations for the period 2002â€“2003. Global Biogeochemical Cycles, 2008, 22, .	1.9	119
58	Possible representation errors in inversions of satellite CO₂ retrievals. Journal of Geophysical Research, 2008, 113, .	3.3	43
59	Combined Simple Biosphere/Carnegieâ€Amesâ€Stanford Approach terrestrial carbon cycle model. Journal of Geophysical Research, 2008, 113, .	3.3	138
60	Sensitivity, uncertainty and time dependence of parameters in a complex land surface model. Agricultural and Forest Meteorology, 2008, 148, 268-287.	1.9	60
61	Interannual variability of photosynthesis across Africa and its attribution. Journal of Geophysical Research, 2008, 113, .	3.3	45
62	Photosynthetic Control of Atmospheric Carbonyl Sulfide During the Growing Season. Science, 2008, 322, 1085-1088.	6.0	196
63	Seasonal drought stress in the Amazon: Reconciling models and observations. Journal of Geophysical Research, 2008, 113, .	3.3	248
64	Mechanisms for synoptic variations of atmospheric CO₂ in North America, South America and Europe. Atmospheric Chemistry and Physics, 2008, 8, 7239-7254.	1.9	60
65	Observations and simulations of synoptic, regional, and local variations in atmospheric CO2. Journal of Geophysical Research, 2007, 112, .	3.3	61
66	A multiple-scale simulation of variations in atmospheric carbon dioxide using a coupled biosphere-atmospheric model. Journal of Geophysical Research, 2004, 109, .	3.3	51
67	Simulated variations in atmospheric CO2 over a Wisconsin forest using a coupled ecosystem-atmosphere model. Global Change Biology, 2003, 9, 1241-1250.	4.2	76
68	Simulated and observed fluxes of sensible and latent heat and CO2 at the WLEF-TV tower using SiB2.5. Global Change Biology, 2003, 9, 1262-1277.	4.2	88
69	The Common Land Model. Bulletin of the American Meteorological Society, 2003, 84, 1013-1024.	1.7	1,058
70	Effect of climate on interannual variability of terrestrial CO2fluxes. Global Biogeochemical Cycles, 2002, 16, 49-1-49-12.	1.9	51