

J T Randerson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262
papers

38,599
citations

91
h-index

195
g-index

273
ext. papers

44,649
ext. citations

9.7
avg, IF

7.18
L-index

#	Paper	IF	Citations
262	Building a machine learning surrogate model for wildfire activities within a global Earth system model. <i>Geoscientific Model Development</i> , 2022 , 15, 1899-1911	6.3	1
261	Deforestation-induced climate change reduces carbon storage in remaining tropical forests.. <i>Nature Communications</i> , 2022 , 13, 1964	17.4	1
260	Escalating carbon emissions from North American boreal forest wildfires and the climate mitigation potential of fire management.. <i>Science Advances</i> , 2022 , 8, eabl7161	14.3	0
259	Human-ignited fires result in more extreme fire behavior and ecosystem impacts.. <i>Nature Communications</i> , 2022 , 13, 2717	17.4	3
258	Wildfire response to changing daily temperature extremes in California's Sierra Nevada. <i>Science Advances</i> , 2021 , 7, eabe6417	14.3	3
257	The role of fire in global forest loss dynamics. <i>Global Change Biology</i> , 2021 , 27, 2377-2391	11.4	16
256	Future increases in Arctic lightning and fire risk for permafrost carbon. <i>Nature Climate Change</i> , 2021 , 11, 404-410	21.4	29
255	Disturbance suppresses the aboveground carbon sink in North American boreal forests. <i>Nature Climate Change</i> , 2021 , 11, 435-441	21.4	16
254	Boreal forest fire CO and CH ₄ emission factors derived from tower observations in Alaska during the extreme fire season of 2015. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8557-8574	6.8	3
253	Warming as a Driver of Vegetation Loss in the Sonoran Desert of California. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005942	3.7	4
252	Climate-Driven Limits to Future Carbon Storage in California's Wildland Ecosystems. <i>AGU Advances</i> , 2021 , 2, e2021AV000384	5.4	5
251	Climate, Fuel, and Land Use Shaped the Spatial Pattern of Wildfire in California's Sierra Nevada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005786	3.7	6
250	Zonally contrasting shifts of the tropical rainbelt in response to climate change. <i>Nature Climate Change</i> , 2021 , 11, 143-151	21.4	23
249	A Growing Freshwater Lens in the Arctic Ocean With Sustained Climate Warming Disrupts Marine Ecosystem Function. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005693	3.7	4
248	Climate-driven risks to the climate mitigation potential of forests. <i>Science</i> , 2020 , 368,	33.3	131
247	Satellite hydrology observations as operational indicators of forecasted fire danger across the contiguous United States. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 1097-1106	3.9	6
246	Forecasting Daily Wildfire Activity Using Poisson Regression. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 4837-4851	8.1	5

245	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020 , 10, 277-286	21.4	207
244	The age distribution of global soil carbon inferred from radiocarbon measurements. <i>Nature Geoscience</i> , 2020 , 13, 555-559	18.3	47
243	Plant Physiology Increases the Magnitude and Spread of the Transient Climate Response to CO ₂ in CMIP6 Earth System Models. <i>Journal of Climate</i> , 2020 , 33, 8561-8578	4.4	10
242	Coccidioidomycosis (Valley Fever) Case Data for the Southwestern United States. <i>Open Health Data</i> , 2020 , 7, 1	4.5	3
241	Recent California tree mortality portends future increase in drought-driven forest die-off. <i>Environmental Research Letters</i> , 2020 , 15, 124040	6.2	5
240	Climate change decreases the cooling effect from postfire albedo in boreal North America. <i>Global Change Biology</i> , 2020 , 26, 1592-1607	11.4	10
239	The COVID-19 lockdowns: a window into the Earth System. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 470-481	30.2	90
238	Forecasting Global Fire Emissions on Subseasonal to Seasonal (S2S) Time Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001955	7.1	4
237	Graph-Guided Regularized Regression of Pacific Ocean Climate Variables to Increase Predictive Skill of Southwestern U.S. Winter Precipitation. <i>Journal of Climate</i> , 2020 , 34, 737-754	4.4	5
236	Expansion of Coccidioidomycosis Endemic Regions in the United States in Response to Climate Change. <i>GeoHealth</i> , 2019 , 3, 308-327	5	26
235	Expansion of high-latitude deciduous forests driven by interactions between climate warming and fire. <i>Nature Plants</i> , 2019 , 5, 952-958	11.5	49
234	Machine learning to predict final fire size at the time of ignition. <i>International Journal of Wildland Fire</i> , 2019 , 28, 861-873	3.2	9
233	Comparison With Global Soil Radiocarbon Observations Indicates Needed Carbon Cycle Improvements in the E3SM Land Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1098-1114	3.7	9
232	Why Does Amazon Precipitation Decrease When Tropical Forests Respond to Increasing CO ₂ ?. <i>Earth's Future</i> , 2019 , 7, 450-468	7.9	30
231	Reply to: A critical examination of a newly proposed interhemispheric teleconnection to Southwestern US winter precipitation. <i>Nature Communications</i> , 2019 , 10, 2918	17.4	3
230	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4245-4287	7.1	288
229	Improving Representation of Deforestation Effects on Evapotranspiration in the E3SM Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2412-2427	7.1	16
228	The effect of plant physiological responses to rising CO ₂ on global streamflow. <i>Nature Climate Change</i> , 2019 , 9, 873-879	21.4	18

227	The Global Fire Atlas of individual fire size, duration, speed and direction. <i>Earth System Science Data</i> , 2019 , 11, 529-552	10.5	113
226	Economic carbon cycle feedbacks may offset additional warming from natural feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 759-764	11.5	45
225	Soil Moisture Variability Intensifies and Prolongs Eastern Amazon Temperature and Carbon Cycle Response to El Niño Southern Oscillation. <i>Journal of Climate</i> , 2019 , 32, 1273-1292	4.4	8
224	Harnessing cross-border resources to confront climate change. <i>Environmental Science and Policy</i> , 2018 , 87, 128-132	6.2	9
223	Sustained climate warming drives declining marine biological productivity. <i>Science</i> , 2018 , 359, 1139-1143	33.3	176
222	Reversal of Increasing Tropical Ocean Hypoxia Trends With Sustained Climate Warming. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 551-564	5.9	16
221	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1424-1432	11.5	230
220	Unraveling the Role of Temperature and Rainfall on Active Fires in the Brazilian Amazon Using a Nonlinear Poisson Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 117-128	3.7	10
219	Coccidioidomycosis Dynamics in Relation to Climate in the Southwestern United States. <i>GeoHealth</i> , 2018 , 2, 6-24	5	43
218	Forest response to rising CO ₂ drives zonally asymmetric rainfall change over tropical land. <i>Nature Climate Change</i> , 2018 , 8, 434-440	21.4	50
217	A new interhemispheric teleconnection increases predictability of winter precipitation in southwestern US. <i>Nature Communications</i> , 2018 , 9, 2332	17.4	31
216	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. <i>Nature</i> , 2018 , 553, 194-198	50.4	204
215	Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12419-12424	11.5	28
214	Plant Physiological Responses to Rising CO ₂ Modify Simulated Daily Runoff Intensity With Implications for Global-Scale Flood Risk Assessment. <i>Geophysical Research Letters</i> , 2018 , 45, 12,457	4.9	15
213	The International Land Model Benchmarking (ILAMB) System: Design, Theory, and Implementation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2731-2754	7.1	98
212	Future Drying in Central America and Northern South America Linked With Atlantic Meridional Overturning Circulation. <i>Geophysical Research Letters</i> , 2018 , 45, 9226-9235	4.9	7
211	Carbon dioxide sources from Alaska driven by increasing early winter respiration from Arctic tundra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5361-5366	11.5	115
210	Interactions between land use change and carbon cycle feedbacks. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 96-113	5.9	31

209	Are the impacts of land use on warming underestimated in climate policy?. <i>Environmental Research Letters</i> , 2017 , 12, 094016	6.2	12
208	Global fire emissions estimates during 1997-2016. <i>Earth System Science Data</i> , 2017 , 9, 697-720	10.5	693
207	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9843-9857	4.4	11
206	Lightning as a major driver of recent large fire years in North American boreal forests. <i>Nature Climate Change</i> , 2017 , 7, 529-534	21.4	164
205	A human-driven decline in global burned area. <i>Science</i> , 2017 , 356, 1356-1362	33.3	433
204	A pan-tropical cascade of fire driven by El Niño/Southern Oscillation. <i>Nature Climate Change</i> , 2017 , 7, 906-911	21.4	74
203	C4MIP – The Coupled Climate-Carbon Cycle Model Intercomparison Project: experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 2853-2880	6.3	123
202	Plant responses to increasing CO ₂ reduce estimates of climate impacts on drought severity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10019-24	11.5	283
201	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 40-56	5.9	251
200	Climate change impacts on net primary production (NPP) and export production (EP) regulated by increasing stratification and phytoplankton community structure in the CMIP5 models. <i>Biogeosciences</i> , 2016 , 13, 5151-5170	4.6	95
199	Evaluating the strength of the land-atmosphere moisture feedback in Earth system models using satellite observations. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 4837-4856	5.5	20
198	How much global burned area can be forecast on seasonal time scales using sea surface temperatures?. <i>Environmental Research Letters</i> , 2016 , 11, 045001	6.2	49
197	Fire severity influences the response of soil microbes to a boreal forest fire. <i>Environmental Research Letters</i> , 2016 , 11, 035004	6.2	52
196	Spatial patterns and controls on burned area for two contrasting fire regimes in Southern California. <i>Ecosphere</i> , 2016 , 7, e01210	3.1	18
195	Representing leaf and root physiological traits in CLM improves global carbon and nitrogen cycling predictions. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 598-613	7.1	71
194	Spatial patterns and source attribution of urban methane in the Los Angeles Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2490-2507	4.4	37
193	The influence of daily meteorology on boreal fire emissions and regional trace gas variability. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2793-2810	3.7	6
192	Radiocarbon constraints imply reduced carbon uptake by soils during the 21st century. <i>Science</i> , 2016 , 353, 1419-1424	33.3	119

191	Mitigation of methane emissions in cities: How new measurements and partnerships can contribute to emissions reduction strategies. <i>Earth's Future</i> , 2016 , 4, 408-425	7.9	29
190	Accuracy and precision of $\delta^{14}\text{C}$ -based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol 2015 ,		2
189	Design and application of a mobile ground-based observatory for continuous measurements of atmospheric trace-gas and criteria pollutant species 2015 ,		1
188	Tropical North Atlantic ocean-atmosphere interactions synchronize forest carbon losses from hurricanes and Amazon fires. <i>Geophysical Research Letters</i> , 2015 , 42, 6462-6470	4.9	6
187	Multicentury changes in ocean and land contributions to the climate-carbon feedback. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 744-759	5.9	49
186	Black carbon aerosol dynamics and isotopic composition in Alaska linked with boreal fire emissions and depth of burn in organic soils. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1977-2000	5.9	19
185	Rate and velocity of climate change caused by cumulative carbon emissions. <i>Environmental Research Letters</i> , 2015 , 10, 095001	6.2	16
184	Identification of two distinct fire regimes in Southern California: implications for economic impact and future change. <i>Environmental Research Letters</i> , 2015 , 10, 094005	6.2	59
183	Daily burned area and carbon emissions from boreal fires in Alaska. <i>Biogeosciences</i> , 2015 , 12, 3579-3601	4.6	39
182	Accuracy and precision of $\delta^{14}\text{C}$ -based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3729-3743	4	9
181	Design and application of a mobile ground-based observatory for continuous measurements of atmospheric trace gas and criteria pollutant species. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3481-3492 ¹²		
180	Influence of tree species on continental differences in boreal fires and climate feedbacks. <i>Nature Geoscience</i> , 2015 , 8, 228-234	18.3	229
179	The role of temporal evolution in modeling atmospheric emissions from tropical fires. <i>Atmospheric Environment</i> , 2014 , 89, 158-168	5.3	15
178	Contrasting controls on wildland fires in Southern California during periods with and without Santa Ana winds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 432-450	3.7	52
177	Vegetation controls on northern high latitude snow-albedo feedback: observations and CMIP5 model simulations. <i>Global Change Biology</i> , 2014 , 20, 594-606	11.4	119
176	Preindustrial-Control and Twentieth-Century Carbon Cycle Experiments with the Earth System Model CESM1(BGC). <i>Journal of Climate</i> , 2014 , 27, 8981-9005	4.4	125
175	Separating the influence of temperature, drought, and fire on interannual variability in atmospheric CO. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 1295-1310	5.9	28
174	Quantifying fire-wide carbon emissions in interior Alaska using field measurements and Landsat imagery. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1608-1629	3.7	31

173	Global covariation of carbon turnover times with climate in terrestrial ecosystems. <i>Nature</i> , 2014 , 514, 213-7	50.4	446
172	Mapping the daily progression of large wildland fires using MODIS active fire data. <i>International Journal of Wildland Fire</i> , 2014 , 23, 655	3.2	52
171	Causes and implications of persistent atmospheric carbon dioxide biases in Earth System Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 141-162	3.7	102
170	Carbon cycle extremes during the 21st century in CMIP5 models: Future evolution and attribution to climatic drivers. <i>Geophysical Research Letters</i> , 2014 , 41, 8853-8861	4.9	32
169	Management and climate contributions to satellite-derived active fire trends in the contiguous United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 645-660	3.7	11
168	Multi-scale influence of vapor pressure deficit on fire ignition and spread in boreal forest ecosystems. <i>Biogeosciences</i> , 2014 , 11, 3739-3755	4.6	49
167	Controls on the spatial pattern of wildfire ignitions in Southern California. <i>International Journal of Wildland Fire</i> , 2014 , 23, 799	3.2	42
166	Changes in soil organic carbon storage predicted by Earth system models during the 21st century. <i>Biogeosciences</i> , 2014 , 11, 2341-2356	4.6	201
165	Statistical prediction of terrestrial water storage changes in the Amazon Basin using tropical Pacific and North Atlantic sea surface temperature anomalies. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 2089-2102	5.5	23
164	The response of the 18O/16O composition of atmospheric CO ₂ to changes in environmental conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 55-79	3.7	5
163	A few extreme events dominate global interannual variability in gross primary production. <i>Environmental Research Letters</i> , 2014 , 9, 035001	6.2	134
162	Satellite observations of terrestrial water storage provide early warning information about drought and fire season severity in the Amazon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 495-504	3.7	54
161	El Niño and health risks from landscape fire emissions in Southeast Asia. <i>Nature Climate Change</i> , 2013 , 3, 131-136	21.4	204
160	Analysis of daily, monthly, and annual burned area using the fourth-generation global fire emissions database (GFED4). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 317-328	3.7	829
159	Long-term trends and interannual variability of forest, savanna and agricultural fires in South America. <i>Carbon Management</i> , 2013 , 4, 617-638	3.3	96
158	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2013 , 26, 4447-4475	4.4	45
157	Global impact of smoke aerosols from landscape fires on climate and the Hadley circulation. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5227-5241	6.8	105
156	The covariation of Northern Hemisphere summertime CO ₂ with surface temperature in boreal regions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9447-9459	6.8	37

155	Simulating boreal forest carbon dynamics after stand-replacing fire disturbance: insights from a global process-based vegetation model. <i>Biogeosciences</i> , 2013 , 10, 8233-8252	4.6	11
154	High-latitude cooling associated with landscape changes from North American boreal forest fires. <i>Biogeosciences</i> , 2013 , 10, 699-718	4.6	59
153	Satellite-based assessment of climate controls on US burned area. <i>Biogeosciences</i> , 2013 , 10, 247-260	4.6	36
152	Causes of variation in soil carbon simulations from CMIP5 Earth system models and comparison with observations. <i>Biogeosciences</i> , 2013 , 10, 1717-1736	4.6	474
151	Iconic CO2 time series at risk. <i>Science</i> , 2012 , 337, 1038-40	33.3	13
150	Evaluating greenhouse gas emissions inventories for agricultural burning using satellite observations of active fires 2012 , 22, 1345-64		33
149	The influence of burn severity on postfire vegetation recovery and albedo change during early succession in North American boreal forests. <i>Journal of Geophysical Research</i> , 2012 , 117,		83
148	Global burned area and biomass burning emissions from small fires. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		446
147	Post-fire changes in net shortwave radiation along a latitudinal gradient in boreal North America. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	29
146	The impacts of climate, land use, and demography on fires during the 21st century simulated by CLM-CN. <i>Biogeosciences</i> , 2012 , 9, 509-525	4.6	108
145	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012 , 9, 3857-3874	4.6	238
144	Estimated global mortality attributable to smoke from landscape fires. <i>Environmental Health Perspectives</i> , 2012 , 120, 695-701	8.4	398
143	The changing radiative forcing of fires: global model estimates for past, present and future. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10857-10886	6.8	153
142	Tropical biomass burning smoke plume size, shape, reflectance, and age based on 2001-2009 MISR imagery of Borneo. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3437-3454	6.8	10
141	Kai, Tyler, Randerson & Blake reply. <i>Nature</i> , 2012 , 486, E4-E4	50.4	1
140	Dynamics of fire plumes and smoke clouds associated with peat and deforestation fires in Indonesia. <i>Journal of Geophysical Research</i> , 2011 , 116,		81
139	Model comparisons for estimating carbon emissions from North American wildland fire. <i>Journal of Geophysical Research</i> , 2011 , 116,		90
138	Optimal use of land surface temperature data to detect changes in tropical forest cover. <i>Journal of Geophysical Research</i> , 2011 , 116,		29

137	Biophysical considerations in forestry for climate protection. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 174-182	5.5	209
136	Reduced methane growth rate explained by decreased Northern Hemisphere microbial sources. <i>Nature</i> , 2011 , 476, 194-7	50.4	146
135	Desert dust and anthropogenic aerosol interactions in the Community Climate System Model coupled-carbon-climate model. <i>Biogeosciences</i> , 2011 , 8, 387-414	4.6	38
134	Biomass burning contribution to black carbon in the Western United States Mountain Ranges. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11253-11266	6.8	29
133	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		165
132	The impacts and implications of an intensifying fire regime on Alaskan boreal forest composition and albedo. <i>Global Change Biology</i> , 2011 , 17, 2853-2866	11.4	125
131	Forecasting fire season severity in South America using sea surface temperature anomalies. <i>Science</i> , 2011 , 334, 787-91	33.3	175
130	Continental-scale net radiation and evapotranspiration estimated using MODIS satellite observations. <i>Remote Sensing of Environment</i> , 2011 , 115, 2302-2319	13.2	84
129	Nitrogen deposition in tropical forests from savanna and deforestation fires. <i>Global Change Biology</i> , 2010 , 16, 2024-2038	11.4	67
128	Assessing variability and long-term trends in burned area by merging multiple satellite fire products. <i>Biogeosciences</i> , 2010 , 7, 1171-1186	4.6	471
127	Fire dynamics during the 20th century simulated by the Community Land Model. <i>Biogeosciences</i> , 2010 , 7, 1877-1902	4.6	163
126	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010 , 5, 034007	6.2	116
125	Modeling methane emissions from rice agriculture in China during 1961-2007. <i>Journal of Integrative Environmental Sciences</i> , 2010 , 7, 49-60	3	7
124	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997-2009). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11707-11735	6.8	2013
123	Impacts of precipitation seasonality and ecosystem types on evapotranspiration in the Yukon River Basin, Alaska. <i>Water Resources Research</i> , 2010 , 46,	5.4	30
122	Ecosystem carbon dioxide fluxes after disturbance in forests of North America. <i>Journal of Geophysical Research</i> , 2010 , 115,		328
121	Do biomass burning aerosols intensify drought in equatorial Asia during El Niño?. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3515-3528	6.8	77
120	The Carbon Isotope Composition of Plants and Soils as Biomarkers of Pollution 2010 , 407-423		11

119	Estimates of fire emissions from an active deforestation region in the southern Amazon based on satellite data and biogeochemical modelling. <i>Biogeosciences</i> , 2009 , 6, 235-249	4.6	66
118	Systematic assessment of terrestrial biogeochemistry in coupled climate-carbon models. <i>Global Change Biology</i> , 2009 , 15, 2462-2484	11.4	299
117	Trends in the sources and sinks of carbon dioxide. <i>Nature Geoscience</i> , 2009 , 2, 831-836	18.3	1453
116	Influence of clouds and diffuse radiation on ecosystem-atmosphere CO ₂ and CO ₁₈ O exchanges. <i>Journal of Geophysical Research</i> , 2009 , 114,		59
115	Quantifying aerosol direct radiative effect with Multiangle Imaging Spectroradiometer observations: Top-of-atmosphere albedo change by aerosols based on land surface types. <i>Journal of Geophysical Research</i> , 2009 , 114,		12
114	Measurement of soil carbon oxidation state and oxidative ratio by ¹³ C nuclear magnetic resonance. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		42
113	The sensitivity of CO and aerosol transport to the temporal and vertical distribution of North American boreal fire emissions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6559-6580	6.8	53
112	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. <i>Biogeosciences</i> , 2009 , 6, 2099-2120	4.6	366
111	Carbon isotopes in terrestrial ecosystem pools and CO ₂ fluxes. <i>New Phytologist</i> , 2008 , 178, 24-40	9.8	379
110	Agricultural intensification increases deforestation fire activity in Amazonia. <i>Global Change Biology</i> , 2008 , 14, 2262-2275	11.4	154
109	Climate controls on the variability of fires in the tropics and subtropics. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	193
108	Contribution of ocean, fossil fuel, land biosphere, and biomass burning carbon fluxes to seasonal and interannual variability in atmospheric CO ₂ . <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		63
107	Interannual variability of surface energy exchange depends on stand age in a boreal forest fire chronosequence. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		38
106	Evaluating two experimental approaches for measuring ecosystem carbon oxidation state and oxidative ratio. <i>Journal of Geophysical Research</i> , 2008 , 113,		58
105	Changes in surface albedo after fire in boreal forest ecosystems of interior Alaska assessed using MODIS satellite observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		81
104	Where do fossil fuel carbon dioxide emissions from California go? An analysis based on radiocarbon observations and an atmospheric transport model. <i>Journal of Geophysical Research</i> , 2008 , 113,		47
103	Satellite remote sounding of mid-tropospheric CO ₂ . <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	123
102	Fire-related carbon emissions from land use transitions in southern Amazonia. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	32

101	Molecular hydrogen uptake by soils in forest, desert, and marsh ecosystems in California. <i>Journal of Geophysical Research</i> , 2008 , 113,		33
100	Climate regulation of fire emissions and deforestation in equatorial Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20350-5	11.5	278
99	Protecting climate with forests. <i>Environmental Research Letters</i> , 2008 , 3, 044006	6.2	264
98	Changing feedbacks in the climateBiosphere system. <i>Frontiers in Ecology and the Environment</i> , 2008 , 6, 313-320	5.5	220
97	Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. <i>Ecosystems</i> , 2008 , 11, 209-225	3.9	102
96	Regional patterns of radiocarbon and fossil fuel-derived CO ₂ in surface air across North America. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	91
95	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , 2007 , 112,		269
94	Present-day climate forcing and response from black carbon in snow. <i>Journal of Geophysical Research</i> , 2007 , 112,		898
93	New constraints on Northern Hemisphere growing season net flux. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	130
92	Ecosystem responses to recent climate change and fire disturbance at northern high latitudes: observations and model results contrasting northern Eurasia and North America. <i>Environmental Research Letters</i> , 2007 , 2, 045031	6.2	140
91	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18925-30	11.5	737
90	Results from the carbon-land model intercomparison project (C-LAMP) and availability of the data on the earth system grid (ESG). <i>Journal of Physics: Conference Series</i> , 2007 , 78, 012026	0.3	5
89	The sensitivity of carbon fluxes to spring warming and summer drought depends on plant functional type in boreal forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2007 , 147, 172-185	5.8	159
88	The impact of boreal forest fire on climate warming. <i>Science</i> , 2006 , 314, 1130-2	33.3	615
87	Time-dependent inversion estimates of global biomass-burning CO emissions using Measurement of Pollution in the Troposphere (MOPITT) measurements. <i>Journal of Geophysical Research</i> , 2006 , 111,		90
86	Seasonal exchange of CO ₂ and δ ¹⁸ O-CO ₂ varies with postfire succession in boreal forest ecosystems. <i>Journal of Geophysical Research</i> , 2006 , 111,		22
85	Temperature and moisture dependence of soil H ₂ uptake measured in the laboratory. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	33
84	The effect of post-fire stand age on the boreal forest energy balance. <i>Agricultural and Forest Meteorology</i> , 2006 , 140, 41-50	5.8	164

83	Interannual variability in global biomass burning emissions from 1997 to 2004. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3423-3441	6.8	1383
82	Global estimation of burned area using MODIS active fire observations. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 957-974	6.8	448
81	Carbon isotope evidence for the latitudinal distribution and wind speed dependence of the air-sea gas transfer velocity. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006 , 58, 390-417	3.3	62
80	Is carbon within the global terrestrial biosphere becoming more oxidized? Implications for trends in atmospheric O ₂ . <i>Global Change Biology</i> , 2006 , 12, 260-271	11.4	42
79	Consequences of Incomplete Surface Energy Balance Closure for CO ₂ Fluxes from Open-Path CO ₂ /H ₂ O Infrared Gas Analysers. <i>Boundary-Layer Meteorology</i> , 2006 , 120, 65-85	3.4	32
78	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006 , 9, 1041-1050	3.9	754
77	Fire emissions from C ₃ and C ₄ vegetation and their influence on interannual variability of atmospheric CO ₂ and ¹³ C/CO ₂ . <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	93
76	Changes in the surface energy budget after fire in boreal ecosystems of interior Alaska: An annual perspective. <i>Journal of Geophysical Research</i> , 2005 , 110,		158
75	Fire effects on net radiation and energy partitioning: Contrasting responses of tundra and boreal forest ecosystems. <i>Journal of Geophysical Research</i> , 2005 , 110,		68
74	Influence of terrestrial ecosystems and topography on coastal CO ₂ measurements: A case study at Trinidad Head, California. <i>Journal of Geophysical Research</i> , 2005 , 110,		26
73	Influence of reduced carbon emissions and oxidation on the distribution of atmospheric CO ₂ : Implications for inversion analyses. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	30
72	Impacts of biomass burning emissions and land use change on Amazonian atmospheric phosphorus cycling and deposition. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	114
71	A high-resolution time series of oxygen isotopes from the Kolyma River: Implications for the seasonal dynamics of discharge and basin-scale water use. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	32
70	Terrestrial Ecosystems and Interannual Variability in the Global Atmospheric Budgets of ¹³ C/CO ₂ and ¹² C/CO ₂ 2005 , 217-234		5
69	Continental-scale partitioning of fire emissions during the 1997 to 2001 El Niño/La Niña period. <i>Science</i> , 2004 , 303, 73-6	33.3	480
68	Large-scale plant light-use efficiency inferred from the seasonal cycle of atmospheric CO ₂ . <i>Global Change Biology</i> , 2004 , 10, 1240-1252	11.4	28
67	The Orbiting Carbon Observatory (OCO) mission. <i>Advances in Space Research</i> , 2004 , 34, 700-709	2.4	480
66	Top-down estimates of global CO sources using MOPITT measurements. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	91

65	Differences between surface and column atmospheric CO ₂ and implications for carbon cycle research. <i>Journal of Geophysical Research</i> , 2004 , 109,		222
64	Trends in high northern latitude soil freeze and thaw cycles from 1988 to 2002. <i>Journal of Geophysical Research</i> , 2004 , 109,		97
63	Using generalized cross-validation to select parameters in inversions for regional carbon fluxes. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	22
62	Recent changes in the air-sea gas exchange of methyl chloroform. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	21
61	Carbon emissions from fires in tropical and subtropical ecosystems. <i>Global Change Biology</i> , 2003 , 9, 547-562,		348
60	Postfire response of North American boreal forest net primary productivity analyzed with satellite observations. <i>Global Change Biology</i> , 2003 , 9, 1145-1157	11.4	126
59	Contribution of soil respiration in tropical, temperate, and boreal forests to the ¹⁸ O enrichment of atmospheric O ₂ . <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	29
58	Do volcanic eruptions enhance or diminish net primary production? Evidence from tree rings. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	87
57	The use of ATSR active fire counts for estimating relative patterns of biomass burning: A study from the boreal forest region. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	59
56	Towards robust regional estimates of CO ₂ sources and sinks using atmospheric transport models. <i>Nature</i> , 2002 , 415, 626-30	50.4	998
55	NET ECOSYSTEM PRODUCTION: A COMPREHENSIVE MEASURE OF NET CARBON ACCUMULATION BY ECOSYSTEMS 2002 , 12, 937-947		148
54	Seasonal and latitudinal variability of troposphere ¹⁴ CO ₂ : Post bomb contributions from fossil fuels, oceans, the stratosphere, and the terrestrial biosphere. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 59-1-59-19	5.9	86
53	Concentration and δ of molecular hydrogen in boreal forests: Ecosystem-scale systematics of atmospheric H ₂ . <i>Geophysical Research Letters</i> , 2002 , 29, 35-1-35-4	4.9	38
52	Carbon isotope discrimination of arctic and boreal biomes inferred from remote atmospheric measurements and a biosphere-atmosphere model. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 1-1-1-15	5.9	46
51	Trends in North American net primary productivity derived from satellite observations, 1982-1998. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 2-1-2-14	5.9	111
50	A possible global covariance between terrestrial gross primary production and ¹³ C discrimination: Consequences for the atmospheric ¹³ C budget and its response to ENSO. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 83-1-83-16	5.9	60
49	Satellite-derived increases in net primary productivity across North America, 1982-1998. <i>Geophysical Research Letters</i> , 2002 , 29, 69-1-69-4	4.9	91
48	Biospheric primary production during an ENSO transition. <i>Science</i> , 2001 , 291, 2594-7	33.3	437

47	Arctic and boreal ecosystems of western North America as components of the climate system.. <i>Global Change Biology</i> , 2000 , 6, 211-223	11.4	431
46	Modeling the effects of snowpack on heterotrophic respiration across northern temperate and high latitude regions: Comparison with measurements of atmospheric carbon dioxide in high latitudes. <i>Biogeochemistry</i> , 2000 , 48, 91-114	3.8	54
45	Linking 13C-based estimates of land and ocean sinks with predictions of carbon storage from CO2 fertilization of plant growth. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 668-678	3.3	6
44	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 668-678	3.3	7
43	Impulse response functions of terrestrial carbon cycle models: method and application. <i>Global Change Biology</i> , 1999 , 5, 371-394	11.4	71
42	Increases in early season ecosystem uptake explain recent changes in the seasonal cycle of atmospheric CO2 at high northern latitudes. <i>Geophysical Research Letters</i> , 1999 , 26, 2765-2768	4.9	181
41	Primary production of the biosphere: integrating terrestrial and oceanic components. <i>Science</i> , 1998 , 281, 237-40	33.3	3295
40	Interannual variation in global-scale net primary production: Testing model estimates. <i>Global Biogeochemical Cycles</i> , 1997 , 11, 367-392	5.9	126
39	Carbon 13 exchanges between the atmosphere and biosphere. <i>Global Biogeochemical Cycles</i> , 1997 , 11, 507-533	5.9	178
38	The contribution of terrestrial sources and sinks to trends in the seasonal cycle of atmospheric carbon dioxide. <i>Global Biogeochemical Cycles</i> , 1997 , 11, 535-560	5.9	383
37	ELEVATED ATMOSPHERIC CO2 INCREASES WATER AVAILABILITY IN A WATER-LIMITED GRASSLAND ECOSYSTEM1. <i>Journal of the American Water Resources Association</i> , 1997 , 33, 1033-1039	2.1	35
36	Allele imbalance at tumour suppressor loci during the indolent phase of follicle centre cell lymphoma. <i>Leukemia and Lymphoma</i> , 1996 , 22, 113-7, follow. 186, color plate X	1.9	
35	VEMAP: model shootout at the sub-continental corral. <i>Trends in Ecology and Evolution</i> , 1996 , 11, 313-4	10.9	1
34	Change in net primary production and heterotrophic respiration: How much is necessary to sustain the terrestrial carbon sink?. <i>Global Biogeochemical Cycles</i> , 1996 , 10, 711-726	5.9	95
33	Substrate limitations for heterotrophs: Implications for models that estimate the seasonal cycle of atmospheric CO2. <i>Global Biogeochemical Cycles</i> , 1996 , 10, 585-602	5.9	134
32	Fluorescent polymerase chain reaction of a panel of CA repeats on chromosome 6 in the indolent phase of follicular centre cell lymphoma. <i>British Journal of Cancer</i> , 1996 , 74, 942-6	8.7	7
31	Microsatellite instability in follicle centre cell lymphoma. <i>British Journal of Haematology</i> , 1996 , 93, 160-24.5		14
30	Global net primary production: Combining ecology and remote sensing. <i>Remote Sensing of Environment</i> , 1995 , 51, 74-88	13.2	814

29	Heterogeneity in cell proliferation and expression of p53 and bcl-2 during the indolent phase of germinal centre cell lymphoma: an explanation for clinical variability. <i>British Journal of Haematology</i> , 1995 , 90, 830-6	4.5	11
28	Terrestrial ecosystem production: A process model based on global satellite and surface data. <i>Global Biogeochemical Cycles</i> , 1993 , 7, 811-841	5.9	1781
27	Recurrent patterns in surface thermal fronts associated with cold filaments along the West Coast of North America. <i>Remote Sensing of Environment</i> , 1993 , 46, 146-163	13.2	9
26	2016 International Land Model Benchmarking (ILAMB) Workshop Report		26
25	International Land Model Benchmarking (ILAMB) Workshop Report, Technical Report DOE/SC-0186		4
24	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997-2009)		71
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