

Joe Berry

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.

282
papers

40,692
citations

94
h-index

199
g-index

296
ext. papers

45,385
ext. citations

8.3
avg, IF

7.21
L-index

#	Paper	IF	Citations
282	NIRVP: A robust structural proxy for sun-induced chlorophyll fluorescence and photosynthesis across scales. <i>Remote Sensing of Environment</i> , 2022 , 268, 112763	13.2	14
281	Combining near-infrared radiance of vegetation and fluorescence spectroscopy to detect effects of abiotic changes and stresses. <i>Remote Sensing of Environment</i> , 2022 , 270, 112856	13.2	5
280	Dense canopies browning overshadowed by global greening dominant in sparse canopies.. <i>Science of the Total Environment</i> , 2022 , 826, 154222	10.2	0
279	Representing plant diversity in land models: An evolutionary approach to make 'Functional Types' more functional.. <i>Global Change Biology</i> , 2021 ,	11.4	4
278	Estimating near-infrared reflectance of vegetation from hyperspectral data. <i>Remote Sensing of Environment</i> , 2021 , 267, 112723	13.2	3
277	The limiting factors and regulatory processes that control the environmental responses of C, C-C intermediate, and C photosynthesis. <i>Oecologia</i> , 2021 , 197, 841-866	2.9	0
276	Quantifying high-temperature stress on soybean canopy photosynthesis: The unique role of sun-induced chlorophyll fluorescence. <i>Global Change Biology</i> , 2021 , 27, 2403-2415	11.4	9
275	The role of Cytochrome bf in the control of steady-state photosynthesis: a conceptual and quantitative model. <i>Photosynthesis Research</i> , 2021 , 148, 101-136	3.7	5
274	Solar-induced chlorophyll fluorescence is non-linearly related to canopy photosynthesis in a temperate evergreen needleleaf forest during the fall transition. <i>Remote Sensing of Environment</i> , 2021 , 258, 112362	13.2	19
273	The impact of indicator selection on assessment of global greening. <i>GIScience and Remote Sensing</i> , 2021 , 58, 372-385	4.8	1
272	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. <i>Global Change Biology</i> , 2021 , 27, 2144-2158	11.4	13
271	Response to Comments on "Recent global decline of CO fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
270	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). <i>Biogeosciences</i> , 2021 , 18, 6547-6565	4.6	7
269	Recent global decline of CO fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.3	107
268	The Warburg-effects: basic metabolic processes with reference to cancer development and global photosynthesis. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1776477	2.5	3
267	Canopy structure explains the relationship between photosynthesis and sun-induced chlorophyll fluorescence in crops. <i>Remote Sensing of Environment</i> , 2020 , 241, 111733	13.2	84
266	A radiative transfer model for solar induced fluorescence using spectral invariants theory. <i>Remote Sensing of Environment</i> , 2020 , 240, 111678	13.2	20

265	Satellite footprint data from OCO-2 and TROPOMI reveal significant spatio-temporal and inter-vegetation type variabilities of solar-induced fluorescence yield in the U.S. Midwest. <i>Remote Sensing of Environment</i> , 2020 , 241, 111728	13.2	16
264	How cropland losses shaped by unbalanced urbanization process?. <i>Land Use Policy</i> , 2020 , 96, 104715	5.6	22
263	Radiance-based NIRv as a proxy for GPP of corn and soybean. <i>Environmental Research Letters</i> , 2020 , 15, 034009	6.2	36
262	The Role of Climate Niche, Geofloristic History, Habitat Preference, and Allometry on Wood Density within a California Plant Community. <i>Forests</i> , 2020 , 11, 105	2.8	3
261	Varying Contributions of Drivers to the Relationship Between Canopy Photosynthesis and Far-Red Sun-Induced Fluorescence for Two Maize Sites at Different Temporal Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005051	3.7	5
260	Urban expansion or poor productivity: Explaining regional differences in cropland abandonment in China during the early 21st century. <i>Land Degradation and Development</i> , 2020 , 31, 2540-2551	4.4	7
259	Outgoing Near-Infrared Radiation From Vegetation Scales With Canopy Photosynthesis Across a Spectrum of Function, Structure, Physiological Capacity, and Weather. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005534	3.7	32
258	Amazon rainforest photosynthesis increases in response to atmospheric dryness. <i>Science Advances</i> , 2020 , 6,	14.3	30
257	What is global photosynthesis? History, uncertainties and opportunities. <i>Remote Sensing of Environment</i> , 2019 , 223, 95-114	13.2	146
256	Tracking spatial-temporal landscape changes of impervious surface areas, bare lands, and inundation areas in China during 2001-2017. <i>Land Degradation and Development</i> , 2019 , 30, 1802-1812	4.4	5
255	Terrestrial gross primary production: Using NIR to scale from site to globe. <i>Global Change Biology</i> , 2019 , 25, 3731-3740	11.4	103
254	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
253	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50 years of progress. <i>Remote Sensing of Environment</i> , 2019 , 231, 111177-111177	13.2	190
252	A practical approach for estimating the escape ratio of near-infrared solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2019 , 232, 111209	13.2	112
251	Satellite Chlorophyll Fluorescence and Soil Moisture Observations Lead to Advances in the Predictive Understanding of Global Terrestrial Coupled Carbon-Water Cycles. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 360-375	5.9	30
250	Sun-Induced Chlorophyll Fluorescence, Photosynthesis, and Light Use Efficiency of a Soybean Field from Seasonally Continuous Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 610-623	3.7	94
249	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. <i>Remote Sensing of Environment</i> , 2018 , 211, 26-37	13.2	22
248	Atmospheric CO ₂ Observations Reveal Strong Correlation Between Regional Net Biospheric Carbon Uptake and Solar-Induced Chlorophyll Fluorescence. <i>Geophysical Research Letters</i> , 2018 , 45, 11224-11232	4.0	12

247	Sun-induced chlorophyll fluorescence is more strongly related to absorbed light than to photosynthesis at half-hourly resolution in a rice paddy. <i>Remote Sensing of Environment</i> , 2018 , 216, 658-673	13.2	106
246	Solar Induced Chlorophyll Fluorescence: Origins, Relation to Photosynthesis and Retrieval 2018 , 143-162		39
245	Comparing optimal and empirical stomatal conductance models for application in Earth system models. <i>Global Change Biology</i> , 2018 , 24, 5708-5723	11.4	44
244	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. <i>Biogeosciences</i> , 2018 , 15, 3625-3657	4.6	64
243	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	21.4	27
242	Photosynthesis: ancient, essential, complex, diverse and in need of improvement in a changing world. <i>New Phytologist</i> , 2017 , 213, 43-47	9.8	21
241	Stomatal Function across Temporal and Spatial Scales: Deep-Time Trends, Land-Atmosphere Coupling and Global Models. <i>Plant Physiology</i> , 2017 , 174, 583-602	6.6	78
240	Regionally strong feedbacks between the atmosphere and terrestrial biosphere. <i>Nature Geoscience</i> , 2017 , Volume 10, 410-414	18.3	113
239	Canopy near-infrared reflectance and terrestrial photosynthesis. <i>Science Advances</i> , 2017 , 3, e1602244	14.3	271
238	Large historical growth in global terrestrial gross primary production. <i>Nature</i> , 2017 , 544, 84-87	50.4	150
237	Mobile MUTE specifies subsidiary cells to build physiologically improved grass stomata. <i>Science</i> , 2017 , 355, 1215-1218	33.3	100
236	Application of satellite solar-induced chlorophyll fluorescence to understanding large-scale variations in vegetation phenology and function over northern high latitude forests. <i>Remote Sensing of Environment</i> , 2017 , 190, 178-187	13.2	100
235	Disruption of stomatal lineage signaling or transcriptional regulators has differential effects on mesophyll development, but maintains coordination of gas exchange. <i>New Phytologist</i> , 2017 , 216, 69-75	9.8	22
234	Hydrologic resilience and Amazon productivity. <i>Nature Communications</i> , 2017 , 8, 387	17.4	28
233	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
232	Plant Uptake of Atmospheric Carbonyl Sulfide in Coast Redwood Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 3391-3404	3.7	10
231	Model-based analysis of the relationship between sun-induced chlorophyll fluorescence and gross primary production for remote sensing applications. <i>Remote Sensing of Environment</i> , 2016 , 187, 145-155	13.2	139
230	Improving respiration measurements with gas exchange analyzers. <i>Journal of Plant Physiology</i> , 2016 , 207, 73-77	3.6	2

229	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	6.8	15
228	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3711-3726	6.8	45
227	Improving the monitoring of crop productivity using spaceborne solar-induced fluorescence. <i>Global Change Biology</i> , 2016 , 22, 716-26	11.4	180
226	Can we retrieve vegetation photosynthetic capacity parameter from solar-induced fluorescence? 2016 ,		3
225	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015 , 8, 284-289	18.3	251
224	The 2010 Russian drought impact on satellite measurements of solar-induced chlorophyll fluorescence: Insights from modeling and comparisons with parameters derived from satellite reflectances. <i>Remote Sensing of Environment</i> , 2015 , 166, 163-177	13.2	142
223	Tree mortality predicted from drought-induced vascular damage. <i>Nature Geoscience</i> , 2015 , 8, 367-371	18.3	245
222	Photosynthetic fluorescence, from molecule to planet. <i>Physics Today</i> , 2015 , 68, 66-67	0.9	14
221	Tropical sources and sinks of carbonyl sulfide observed from space. <i>Geophysical Research Letters</i> , 2015 , 42, 10,082-10,090	4.9	33
220	Simulations of chlorophyll fluorescence incorporated into the Community Land Model version 4. <i>Global Change Biology</i> , 2015 , 21, 3469-77	11.4	86
219	Atmospheric carbonyl sulfide sources from anthropogenic activity: Implications for carbon cycle constraints. <i>Geophysical Research Letters</i> , 2015 , 42, 3004-3010	4.9	67
218	Large variability in ecosystem models explains uncertainty in a critical parameter for quantifying GPP with carbonyl sulphide. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 26329	3.3	13
217	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, 14162-7	11.5	54
216	The physiological importance of developmental mechanisms that enforce proper stomatal spacing in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2014 , 201, 1205-1217	9.8	97
215	Linking chlorophyll a fluorescence to photosynthesis for remote sensing applications: mechanisms and challenges. <i>Journal of Experimental Botany</i> , 2014 , 65, 4065-95	7	532
214	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. <i>Nature Communications</i> , 2014 , 5, 5439	17.4	151
213	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1327-33	11.5	577
212	Prospects for chlorophyll fluorescence remote sensing from the Orbiting Carbon Observatory-2. <i>Remote Sensing of Environment</i> , 2014 , 147, 1-12	13.2	274

211	An integrated model of stomatal development and leaf physiology. <i>New Phytologist</i> , 2014 , 201, 1218-1236	3.6	95
210	Daily and seasonal dynamics of remotely sensed photosynthetic efficiency in tree canopies. <i>Tree Physiology</i> , 2014 , 34, 674-85	4.2	22
209	Sources and sinks of carbonyl sulfide in an agricultural field in the Southern Great Plains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 9064-9	11.5	75
208	New constraints on atmospheric CO ₂ concentration for the Phanerozoic. <i>Geophysical Research Letters</i> , 2014 , 41, 4685-4694	4.9	144
207	Models of fluorescence and photosynthesis for interpreting measurements of solar-induced chlorophyll fluorescence. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 2312-2327	3.7	207
206	Reply to Magnani et al.: Linking large-scale chlorophyll fluorescence observations with cropland gross primary production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2511	11.5	11
205	Estimation of vegetation photosynthetic capacity from space-based measurements of chlorophyll fluorescence for terrestrial biosphere models. <i>Global Change Biology</i> , 2014 , 20, 3727-42	11.4	208
204	Loss of whole-tree hydraulic conductance during severe drought and multi-year forest die-off. <i>Oecologia</i> , 2014 , 175, 11-23	2.9	58
203	Interpreting seasonal changes in the carbon balance of southern Amazonia using measurements of XCO ₂ and chlorophyll fluorescence from GOSAT. <i>Geophysical Research Letters</i> , 2013 , 40, 2829-2833	4.9	75
202	Drought characteristics' role in widespread aspen forest mortality across Colorado, USA. <i>Global Change Biology</i> , 2013 , 19, 1526-37	11.4	79
201	Drought's legacy: multiyear hydraulic deterioration underlies widespread aspen forest die-off and portends increased future risk. <i>Global Change Biology</i> , 2013 , 19, 1188-96	11.4	244
200	A coupled model of the global cycles of carbonyl sulfide and CO ₂ : A possible new window on the carbon cycle. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 842-852	3.7	113
199	Forest productivity and water stress in Amazonia: observations from GOSAT chlorophyll fluorescence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130171	4.4	200
198	Not all droughts are created equal: translating meteorological drought into woody plant mortality. <i>Tree Physiology</i> , 2013 , 33, 701-12	4.2	327
197	Sensitivity of plants to changing atmospheric CO ₂ concentration: from the geological past to the next century. <i>New Phytologist</i> , 2013 , 197, 1077-1094	9.8	256
196	The influence of leaf-atmosphere NH ₃ (g) exchange on the isotopic composition of nitrogen in plants and the atmosphere. <i>Plant, Cell and Environment</i> , 2013 , 36, 1783-801	8.4	13
195	Effects of carbonyl sulfide and carbonic anhydrase on stomatal conductance. <i>Plant Physiology</i> , 2012 , 158, 524-30	6.6	31
194	Remote chlorophyll fluorescence measurements with the laser-induced fluorescence transient approach. <i>Methods in Molecular Biology</i> , 2012 , 918, 51-9	1.4	7

193	Facultative and constitutive pigment effects on the Photochemical Reflectance Index (PRI) in sun and shade conifer needles. <i>Israel Journal of Plant Sciences</i> , 2012 , 60, 85-95	0.6	113
192	There ought to be an equation for that. <i>Annual Review of Plant Biology</i> , 2012 , 63, 1-17	30.7	27
191	Linking definitions, mechanisms, and modeling of drought-induced tree death. <i>Trends in Plant Science</i> , 2012 , 17, 693-700	13.1	159
190	The roles of hydraulic and carbon stress in a widespread climate-induced forest die-off. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 233-7	11.5	436
189	Forest biomass allometry in global land surface models. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a	5.9	47
188	Moist synoptic transport of CO ₂ along the mid-latitude storm track. <i>Geophysical Research Letters</i> , 2011 , 38,	4.9	32
187	Using boundary layer equilibrium to reduce uncertainties in transport models and CO ₂ flux inversions. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9631-9641	6.8	20
186	In the heat of the night--alternative pathway respiration drives thermogenesis in <i>Philodendron bipinnatifidum</i> . <i>New Phytologist</i> , 2011 , 189, 1013-1026	9.8	24
185	Allometric growth and allocation in forests: a perspective from FLUXNET 2011 , 21, 1546-56		42
184	Association between carbonyl sulfide uptake and (18)O during gas exchange in C(3) and C(4) leaves. <i>Plant Physiology</i> , 2011 , 157, 509-17	6.6	39
183	Relationships between carbonyl sulfide (COS) and CO ₂ during leaf gas exchange. <i>New Phytologist</i> , 2010 , 186, 869-878	9.8	89
182	A kinetic analysis of leaf uptake of COS and its relation to transpiration, photosynthesis and carbon isotope fractionation. <i>Biogeosciences</i> , 2010 , 7, 333-341	4.6	63
181	Monitoring of cold and light stress impact on photosynthesis by using the laser induced fluorescence transient (LIFT) approach. <i>Functional Plant Biology</i> , 2010 , 37, 395	2.7	31
180	Control of transpiration by radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13372-7	11.5	154
179	Climatic controls of interannual variability in regional carbon fluxes from top-down and bottom-up perspectives. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		21
178	Leaf development, gas exchange characteristics, and photorespiratory activity in maize seedlings. <i>Photosynthetica</i> , 2010 , 48, 617-622	2.2	11
177	Stomata: key players in the earth system, past and present. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 233-40	9.9	200
176	Allometric constraints on sources of variability in multi-angle reflectance measurements. <i>Remote Sensing of Environment</i> , 2010 , 114, 1205-1219	13.2	11

175	Robust calibration design in the pharmaceutical quantitative measurements with near-infrared (NIR) spectroscopy: Avoiding the chemometric pitfalls. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 1153-66	3.9	37
174	Real-time on-line blend uniformity monitoring using near-infrared reflectance spectrometry: a noninvasive off-line calibration approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 48-54	3.5	63
173	Evaluation of transmission and reflection modalities for measuring content uniformity of pharmaceutical tablets with near-infrared spectroscopy. <i>Applied Spectroscopy</i> , 2009 , 63, 33-47	3.1	15
172	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
171	Regional CO ₂ and latent heat surface fluxes in the Southern Great Plains: Measurements, modeling, and scaling. <i>Journal of Geophysical Research</i> , 2009 , 114,		28
170	Biochemical Model of C ₃ Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2009 , 209-230	1.7	51
169	Phytochrome-driven changes in respiratory electron transport partitioning in soybean (<i>Glycine max.</i> L.) cotyledons. <i>Plant Biology</i> , 2008 , 10, 281-7	3.7	14
168	An ecosystem model for tropical forest disturbance and selective logging. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		17
167	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008 , 113,		116
166	Interannual variability of photosynthesis across Africa and its attribution. <i>Journal of Geophysical Research</i> , 2008 , 113,		38
165	Photosynthetic control of atmospheric carbonyl sulfide during the growing season. <i>Science</i> , 2008 , 322, 1085-8	33.3	151
164	Life form-specific variations in leaf water oxygen-18 enrichment in Amazonian vegetation. <i>Oecologia</i> , 2008 , 157, 197-210	2.9	26
163	Carbon isotopes and water use efficiency: sense and sensitivity. <i>Oecologia</i> , 2008 , 155, 441-54	2.9	408
162	Remote Monitoring of Photosynthetic Efficiency Using Laser Induced Fluorescence Transient (LIFT) Technique 2008 , 1539-1543		1
161	Africa and the global carbon cycle. <i>Carbon Balance and Management</i> , 2007 , 2, 3	3.6	124
160	Nocturnal stomatal conductance effects on the delta(18)O signatures of foliage gas exchange observed in two forest ecosystems. <i>Tree Physiology</i> , 2007 , 27, 585-95	4.2	33
159	Spatiotemporal Variations in Growing Season Exchanges of CO ₂ , H ₂ O, and Sensible Heat in Agricultural Fields of the Southern Great Plains. <i>Earth Interactions</i> , 2007 , 11, 1-21	1.5	121
158	Analysis of leakage in IRGA's leaf chambers of open gas exchange systems: quantification and its effects in photosynthesis parameterization. <i>Journal of Experimental Botany</i> , 2007 , 58, 1533-43	7	194

157	Diurnally variable $\delta^{18}O$ signatures of soil CO ₂ fluxes indicate carbonic anhydrase activity in a forest soil. <i>Journal of Geophysical Research</i> , 2006 , 111,		30
156	Materials and methods for carbon dioxide and water exchange analysis. <i>Plant, Cell and Environment</i> , 2006 , 3, 371-376	8.4	50
155	Non-steady state effects in diurnal $\delta^{18}O$ discrimination by <i>Picea sitchensis</i> branches in the field. <i>Plant, Cell and Environment</i> , 2006 , 29, 928-39	8.4	38
154	Combining meteorology, eddy fluxes, isotope measurements, and modeling to understand environmental controls of carbon isotope discrimination at the canopy scale. <i>Global Change Biology</i> , 2006 , 12, 710-730	11.4	46
153	The stable carbon and nitrogen isotopic composition of vegetation in tropical forests of the Amazon Basin, Brazil. <i>Biogeochemistry</i> , 2006 , 79, 251-274	3.8	117
152	Testing a model of CO ₂ , water and energy exchange in Great Plains tallgrass prairie and wheat ecosystems. <i>Agricultural and Forest Meteorology</i> , 2005 , 131, 162-179	5.8	47
151	Simulation of carbon isotope discrimination of the terrestrial biosphere. <i>Global Biogeochemical Cycles</i> , 2005 , 19,	5.9	126
150	Parameterization of Canopy Structure and Leaf-Level Gas Exchange for an Eastern Amazonian Tropical Rain Forest (Tapaj� National Forest, Par�Brazil). <i>Earth Interactions</i> , 2005 , 9, 1-23	1.5	90
149	Remote sensing of heterogeneity in photosynthetic efficiency, electron transport and dissipation of excess light in <i>Populus deltoides</i> stands under ambient and elevated CO ₂ concentrations, and in a tropical forest canopy, using a new laser-induced fluorescence transient device. <i>Global Change Biology</i> , 2005 , 11, 1195-1206	11.4	44
148	Measuring photosynthetic parameters at a distance: laser induced fluorescence transient (LIFT) method for remote measurements of photosynthesis in terrestrial vegetation. <i>Photosynthesis Research</i> , 2005 , 84, 121-9	3.7	93
147	Effects of water stress on respiration in soybean leaves. <i>Plant Physiology</i> , 2005 , 139, 466-73	6.6	221
146	Simulation of Ecosystem C ¹⁸ O Isotope Fluxes in A Tallgrass Prairie 2005 , 154-170		5
145	Functional diversity of photosynthesis during drought in a model tropical rainforest the contributions of leaf area, photosynthetic electron transport and stomatal conductance to reduction in net ecosystem carbon exchange. <i>Plant, Cell and Environment</i> , 2004 , 27, 1239-1256	8.4	44
144	Changing the way we think about global change research: scaling up in experimental ecosystem science. <i>Global Change Biology</i> , 2004 , 10, 393-407	11.4	109
143	Canopy Carbon Gain and Water Use: Analysis of Old-growth Conifers in the Pacific Northwest. <i>Ecosystems</i> , 2004 , 7, 482	3.9	23
142	Coupling between CO ₂ , water vapor, temperature, and radon and their fluxes in an idealized equilibrium boundary layer over land. <i>Journal of Geophysical Research</i> , 2004 , 109,		30
141	Estimates of net CO ₂ flux by application of equilibrium boundary layer concepts to CO ₂ and water vapor measurements from a tall tower. <i>Journal of Geophysical Research</i> , 2004 , 109,		59
140	Protection from uv radiation in the economic crop, <i>Opuntia</i> SPP.. <i>Economic Botany</i> , 2004 , 58, S88-S100	1.7	5

139	A Portable Eddy Covariance System for the Measurement of Ecosystem Atmosphere Exchange of CO ₂ , Water Vapor, and Energy. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004 , 21, 639-650	2	38
138	The contribution of C ₃ and C ₄ plants to the carbon cycle of a tallgrass prairie: an isotopic approach. <i>Oecologia</i> , 2003 , 136, 347-59	2.9	65
137	18O composition of CO ₂ and H ₂ O ecosystem pools and fluxes in a tallgrass prairie: Simulations and comparisons to measurements. <i>Global Change Biology</i> , 2003 , 9, 1567-1581	11.4	52
136	Global distribution of C ₃ and C ₄ vegetation: Carbon cycle implications. <i>Global Biogeochemical Cycles</i> , 2003 , 17, 6-16-14	5.9	548
135	The application and interpretation of Keeling plots in terrestrial carbon cycle research. <i>Global Biogeochemical Cycles</i> , 2003 , 17,	5.9	454
134	Changes in mitochondrial electron partitioning in response to herbicides inhibiting branched-chain amino acid biosynthesis in soybean. <i>Plant Physiology</i> , 2003 , 133, 1351-9	6.6	56
133	Inversion of net ecosystem CO ₂ flux measurements for estimation of canopy PAR absorption. <i>Global Change Biology</i> , 2002 , 8, 563-574	11.4	65
132	Automated system for simultaneous analysis of delta(13)C, delta(18)O and CO(2) concentrations in small air samples. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 339-45	2.2	23
131	Nitrogen Controls on Climate Model Evapotranspiration. <i>Journal of Climate</i> , 2002 , 15, 278-295	4.4	86
130	A mechanistic model of H ₂ 18O and C ₁₈ O fluxes between ecosystems and the atmosphere: Model description and sensitivity analyses. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 42-1-42-14	5.9	111
129	A possible global covariance between terrestrial gross primary production and 13C discrimination: Consequences for the atmospheric 13C budget and its response to ENSO. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 83-1-83-16	5.9	60
128	Introduction. <i>Photosynthesis Research</i> , 2001 , 67, 1-3	3.7	
127	Controls on carbon and energy exchange by a black spruce-moss ecosystem: Testing the mathematical model Ecosys with data from the BOREAS Experiment. <i>Global Biogeochemical Cycles</i> , 2001 , 15, 129-147	5.9	27
126	Carbon and energy exchange by a black spruce-moss ecosystem under changing climate: Testing the mathematical model ecosys with data from the BOREAS experiment. <i>Journal of Geophysical Research</i> , 2001 , 106, 33605-33621		22
125	Models of photosynthesis. <i>Plant Physiology</i> , 2001 , 125, 42-5	6.6	209
124	Effects of light on respiration and oxygen isotope fractionation in soybean cotyledons. <i>Plant, Cell and Environment</i> , 2000 , 23, 983-989	8.4	73
123	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , 2000 , 3, 115-130	3.9	189
122	Photosynthesis: principles and field techniques 2000 , 209-253		9

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4	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake		5
3	Reviews and Syntheses: Carbonyl Sulfide as a Multi-scale Tracer for Carbon and Water Cycles		4
2	A kinetic analysis of leaf uptake of COS and its relation to transpiration, photosynthesis and carbon isotope fractionation		2
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