

Joe Berry

List of Publications by Citations

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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	A biochemical model of photosynthetic CO ₂ assimilation in leaves of C ₃ species. <i>Planta</i> , 1980 , 149, 78-90.	4.7	6046
281	Photosynthetic Response and Adaptation to Temperature in Higher Plants. <i>Annual Review of Plant Physiology</i> , 1980 , 31, 491-543		2093
280	On the Relationship Between Carbon Isotope Discrimination and the Intercellular Carbon Dioxide Concentration in Leaves. <i>Functional Plant Biology</i> , 1982 , 9, 121	2.7	1912
279	Physiological and environmental regulation of stomatal conductance, photosynthesis and transpiration: a model that includes a laminar boundary layer. <i>Agricultural and Forest Meteorology</i> , 1991 , 54, 107-136	5.8	1626
278	A Revised Land Surface Parameterization (SiB2) for Atmospheric GCMS. Part I: Model Formulation. <i>Journal of Climate</i> , 1996 , 9, 676-705	4.4	1321
277	Modeling the Exchanges of Energy, Water, and Carbon Between Continents and the Atmosphere. <i>Science</i> , 1997 , 275, 502-9	33.3	1086
276	A Model Predicting Stomatal Conductance and its Contribution to the Control of Photosynthesis under Different Environmental Conditions 1987 , 221-224		1043
275	Coupled Photosynthesis-Stomatal Conductance Model for Leaves of C ₄ Plants. <i>Functional Plant Biology</i> , 1992 , 19, 519	2.7	728
274	Canopy reflectance, photosynthesis, and transpiration. III. A reanalysis using improved leaf models and a new canopy integration scheme.. <i>Remote Sensing of Environment</i> , 1992 , 42, 187-216	13.2	704
273	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
272	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
271	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
270	The application and interpretation of Keeling plots in terrestrial carbon cycle research. <i>Global Biogeochemical Cycles</i> , 2003 , 17,	5.9	454
269	Comparison of Radiative and Physiological Effects of Doubled Atmospheric CO ₂ on Climate. <i>Science</i> , 1996 , 271, 1402-1406	33.3	437
268	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
267	Internal Inorganic Carbon Pool of <i>Chlamydomonas reinhardtii</i> : EVIDENCE FOR A CARBON DIOXIDE-CONCENTRATING MECHANISM. <i>Plant Physiology</i> , 1980 , 66, 407-13	6.6	436
266	Quantum efficiency of Photosystem II in relation to energy-dependent quenching of chlorophyll fluorescence. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987 , 894, 198-208	4.6	427

265	Effects of climate and atmospheric CO partial pressure on the global distribution of C grasses: present, past, and future. <i>Oecologia</i> , 1998 , 114, 441-454	2.9	418
264	Carbon isotopes and water use efficiency: sense and sensitivity. <i>Oecologia</i> , 2008 , 155, 441-54	2.9	408
263	BOREAS in 1997: Experiment overview, scientific results, and future directions. <i>Journal of Geophysical Research</i> , 1997 , 102, 28731-28769		367
262	Enzymatic Regulation of Photosynthetic CO ₂ Fixation in C ₃ Plants. <i>Annual Review of Plant Biology</i> , 1988 , 39, 533-594		344
261	Photosynthetic Fractionation of the Stable Isotopes of Oxygen and Carbon. <i>Plant Physiology</i> , 1993 , 101, 37-47	6.6	343
260	Heat-induced changes of chlorophyll fluorescence in intact leaves correlated with damage of the photosynthetic apparatus. <i>Planta</i> , 1977 , 136, 233-8	4.7	341
259	Carbon Isotope Discrimination measured Concurrently with Gas Exchange to Investigate CO ₂ Diffusion in Leaves of Higher Plants. <i>Functional Plant Biology</i> , 1986 , 13, 281	2.7	333
258	Not all droughts are created equal: translating meteorological drought into woody plant mortality. <i>Tree Physiology</i> , 2013 , 33, 701-12	4.2	327
257	Photosynthesis and the intracellular inorganic carbon pool in the bluegreen alga <i>Anabaena variabilis</i> : Response to external CO ₂ concentration. <i>Planta</i> , 1980 , 149, 219-26	4.7	312
256	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
255	Canopy near-infrared reflectance and terrestrial photosynthesis. <i>Science Advances</i> , 2017 , 3, e1602244	14.3	271
254	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
253	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015 , 8, 284-289	18.3	251
252	Tree mortality predicted from drought-induced vascular damage. <i>Nature Geoscience</i> , 2015 , 8, 367-371	18.3	245
251	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
250	Photoinhibition of photosynthesis in intact bean leaves: role of light and temperature, and requirement for chloroplast-protein synthesis during recovery. <i>Planta</i> , 1986 , 168, 253-60	4.7	231
249	Effects of water stress on respiration in soybean leaves. <i>Plant Physiology</i> , 2005 , 139, 466-73	6.6	221
248	Oceanic ¹³ C/ ¹² C observations: A new window on ocean CO ₂ uptake. <i>Global Biogeochemical Cycles</i> , 1993 , 7, 353-368	5.9	216

247	Models of photosynthesis. <i>Plant Physiology</i> , 2001 , 125, 42-5	6.6	209
246	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
245	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
244	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
243	Stomata: key players in the earth system, past and present. <i>Current Opinion in Plant Biology</i> , 2010 , 13, 233-40	9.9	200
242	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
241	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
240	Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding. <i>Ecosystems</i> , 2000 , 3, 115-130	3.9	189
239	Differential fractionation of oxygen isotopes by cyanide-resistant and cyanide-sensitive respiration in plants. <i>Planta</i> , 1989 , 177, 483-91	4.7	182
238	Improving the monitoring of crop productivity using spaceborne solar-induced fluorescence. <i>Global Change Biology</i> , 2016 , 22, 716-26	11.4	180
237	Carbon 13 exchanges between the atmosphere and biosphere. <i>Global Biogeochemical Cycles</i> , 1997 , 11, 507-533	5.9	178
236	Topography of photosynthetic activity of leaves obtained from video images of chlorophyll fluorescence. <i>Plant Physiology</i> , 1989 , 90, 1233-8	6.6	177
235	A three-dimensional synthesis study of $\delta^{18}\text{O}$ in atmospheric CO_2 : 1. Surface fluxes. <i>Journal of Geophysical Research</i> , 1997 , 102, 5857-5872		176
234	Stress Physiology and the Distribution of Plants The survival of plants in any ecosystem depends on their physiological reactions to various stresses of the environment. <i>BioScience</i> , 1987 , 37, 38-48	5.7	171
233	Linking definitions, mechanisms, and modeling of drought-induced tree death. <i>Trends in Plant Science</i> , 2012 , 17, 693-700	13.1	159
232	Oxygen exchange in leaves in the light. <i>Plant Physiology</i> , 1980 , 66, 302-7	6.6	158
231	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
230	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. <i>Nature Communications</i> , 2014 , 5, 5439	17.4	151

229	Photosynthetic control of atmospheric carbonyl sulfide during the growing season. <i>Science</i> , 2008 , 322, 1085-8	33.3	151
228	Large historical growth in global terrestrial gross primary production. <i>Nature</i> , 2017 , 544, 84-87	50.4	150
227	What is global photosynthesis? History, uncertainties and opportunities. <i>Remote Sensing of Environment</i> , 2019 , 223, 95-114	13.2	146
226	New constraints on atmospheric CO ₂ concentration for the Phanerozoic. <i>Geophysical Research Letters</i> , 2014 , 41, 4685-4694	4.9	144
225	Regulation of ribulose biphosphate carboxylase activity in vivo by a light-modulated inhibitor of catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 8024-8	11.5	144
224	Interaction between light and chilling temperature on the inhibition of photosynthesis in chilling-sensitive plants*. <i>Plant, Cell and Environment</i> , 1983 , 6, 117-123	8.4	143
223	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
222	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
221	Does elevated atmospheric CO ₂ concentration inhibit mitochondrial respiration in green plants?. <i>Plant, Cell and Environment</i> , 1999 , 22, 649-657	8.4	137
220	Variations in the Specific Activity of Ribulose-1,5-biphosphate Carboxylase between Species Utilizing Differing Photosynthetic Pathways. <i>Plant Physiology</i> , 1984 , 74, 791-4	6.6	137
219	Correlations between the thermal stability of chloroplast (thylakoid) membranes and the composition and fluidity of their polar lipids upon acclimation of the higher plant, Nerium oleander, to growth temperature. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982 , 688, 218-228	3.8	133
218	Electron Partitioning between the Cytochrome and Alternative Pathways in Plant Mitochondria. <i>Plant Physiology</i> , 1995 , 109, 829-837	6.6	131
217	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
216	Cyclic electron flow around Photosystem II in vivo. <i>Photosynthesis Research</i> , 1996 , 48, 395-410	3.7	127
215	Simulation of carbon isotope discrimination of the terrestrial biosphere. <i>Global Biogeochemical Cycles</i> , 2005 , 19,	5.9	126
214	Africa and the global carbon cycle. <i>Carbon Balance and Management</i> , 2007 , 2, 3	3.6	124
213	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
212	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

211	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008 , 113,		116
210	Isolation, identification, and synthesis of 2-carboxyarabinitol 1-phosphate, a diurnal regulator of ribulose-bisphosphate carboxylase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 734-8	11.5	115
209	Identification of Extracellular Carbonic Anhydrase of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1984 , 76, 472-7	6.6	114
208	Regionally strong feedbacks between the atmosphere and terrestrial biosphere. <i>Nature Geoscience</i> , 2017 , Volume 10, 410-414	18.3	113
207	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
206	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
205	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
204	A mechanistic model of H ₂ O 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
203	Oxygen-18 kinetic isotope effects in the dopamine beta-monooxygenase reaction: evidence for a new chemical mechanism in non-heme metallomonooxygenases. <i>Biochemistry</i> , 1994 , 33, 226-34	3.2	111
202	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
201	Photosynthesis and Ribulose 1,5-Bisphosphate Concentrations in Intact Leaves of <i>Xanthium strumarium</i> L. <i>Plant Physiology</i> , 1984 , 76, 968-71	6.6	108
200	High photosynthetic capacity of a winter annual in death valley. <i>Science</i> , 1976 , 194, 322-4	33.3	108
199	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.9	107
198	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
197	Regulation of Ribulose-1,5-Bisphosphate Carboxylase Activity in Response to Changing Partial Pressure of O ₂ and Light in <i>Phaseolus vulgaris</i> . <i>Plant Physiology</i> , 1986 , 81, 788-91	6.6	106
196	Terrestrial gross primary production: Using NIR to scale from site to globe. <i>Global Change Biology</i> , 2019 , 25, 3731-3740	11.4	103
195	Regulation of photosynthetic electron-transport in <i>Phaseolus vulgaris</i> L., as determined by room-temperature chlorophyll a fluorescence. <i>Planta</i> , 1988 , 176, 415-24	4.7	101
194	Mobile MUTE specifies subsidiary cells to build physiologically improved grass stomata. <i>Science</i> , 2017 , 355, 1215-1218	33.3	100

193	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
192	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
191	An integrated model of stomatal development and leaf physiology. <i>New Phytologist</i> , 2014 , 201, 1218-1230	9.8	95
190	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
189	Measurements of the Engagement of Cyanide-Resistant Respiration in the Crassulacean Acid Metabolism Plant <i>Kalanchoe daigremontiana</i> with the Use of On-Line Oxygen Isotope Discrimination. <i>Plant Physiology</i> , 1992 , 100, 1087-91	6.6	94
188	Effects of Growth Temperature on the Thermal Stability of the Photosynthetic Apparatus of <i>Atriplex lentiformis</i> (Torr.) Wats. <i>Plant Physiology</i> , 1977 , 59, 873-8	6.6	94
187	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
186	The photosynthetic carbon metabolism of <i>Zea mays</i> and <i>Gomphrena globosa</i> : the location of the CO ₂ fixation and the carboxyl transfer reactions. <i>Canadian Journal of Botany</i> , 1970 , 48, 777-786		92
185	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
184	Relationships between carbonyl sulfide (COS) and CO ₂ during leaf gas exchange. <i>New Phytologist</i> , 2010 , 186, 869-878	9.8	89
183	Fixation of O ₂ during Photorespiration: Kinetic and Steady-State Studies of the Photorespiratory Carbon Oxidation Cycle with Intact Leaves and Isolated Chloroplasts of C(3) Plants. <i>Plant Physiology</i> , 1978 , 62, 954-67	6.6	89
182	Involvement of a Primary Electrogenic Pump in the Mechanism for HCO ₃ Uptake by the Cyanobacterium <i>Anabaena variabilis</i> . <i>Plant Physiology</i> , 1982 , 69, 978-82	6.6	88
181	Simulations of chlorophyll fluorescence incorporated into the Community Land Model version 4. <i>Global Change Biology</i> , 2015 , 21, 3469-77	11.4	86
180	Mangrove Biodiversity and Ecosystem Function. <i>Global Ecology and Biogeography Letters</i> , 1998 , 7, 3		86
179	Nitrogen Controls on Climate Model Evapotranspiration. <i>Journal of Climate</i> , 2002 , 15, 278-295	4.4	86
178	Photosynthetic metabolism in bundle sheath cells of the C ₄ species <i>Zea mays</i> : Sources of ATP and NADPH and the contribution of photosystem II. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 202, 330-41 ^{4.1}		86
177	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
176	Dynamics of patchy stomatal movements, and their contribution to steady-state and oscillating stomatal conductance calculated using gas-exchange techniques. <i>Plant, Cell and Environment</i> , 1994 , 17, 995-1007	8.4	83

175	Interactions between Vegetation and Climate: Radiative and Physiological Effects of Doubled Atmospheric CO ₂ . <i>Journal of Climate</i> , 1999 , 12, 309-324	4.4	82
174	The Regulation of Electron Partitioning between the Cytochrome and Alternative Pathways in Soybean Cotyledon and Root Mitochondria. <i>Plant Physiology</i> , 1997 , 113, 903-911	6.6	81
173	The relationship between the Rubisco reaction mechanism and models of photosynthesis*. <i>Plant, Cell and Environment</i> , 1990 , 13, 219-225	8.4	81
172	Drought characteristics' role in widespread aspen forest mortality across Colorado, USA. <i>Global Change Biology</i> , 2013 , 19, 1526-37	11.4	79
171	Responses of Macrophytes to Temperature 1981 , 277-338		79
170	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
169	A portable system for measuring carbon dioxide and water vapour exchange of leaves. <i>Plant, Cell and Environment</i> , 1982 , 5, 179-186	8.4	78
168	Carbon isotope ratio measurements of succulent plants in southern Africa. <i>Oecologia</i> , 1977 , 30, 295-305	2.9	77
167	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
166	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
165	Adaptation of photosynthetic processes to stress. <i>Science</i> , 1975 , 188, 644-50	33.3	75
164	Photosynthetic response and adaptation to high temperature in desert plants : a comparison of gas exchange and fluorescence methods for studies of thermal tolerance. <i>Plant Physiology</i> , 1984 , 75, 364-8	6.6	74
163	Starch and Sucrose Synthesis in <i>Phaseolus vulgaris</i> as Affected by Light, CO ₂ , and Abscisic Acid. <i>Plant Physiology</i> , 1985 , 77, 617-20	6.6	74
162	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
161	Asymmetric patchy stomatal closure for the two surfaces of <i>Xanthium strumarium</i> L. leaves at low humidity. <i>Plant, Cell and Environment</i> , 1993 , 16, 25-34	8.4	73
160	Isotopic heterogeneity of water in transpiring leaves: identification of the component that controls the $\delta^{18}\text{O}$ of atmospheric O ₂ and CO ₂ . <i>Plant, Cell and Environment</i> , 1994 , 17, 73-80	8.4	71
159	A three-dimensional synthesis study of $\delta^{18}\text{O}$ in atmospheric CO ₂ : 2. Simulations with the TM2 transport model. <i>Journal of Geophysical Research</i> , 1997 , 102, 5873-5883		69
158	Simulations of terrestrial carbon metabolism and atmospheric CO ₂ in a general circulation model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996 , 48, 521-542	3.3	69

157	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996 , 48, 521-542	3.3	68
156	Atmospheric carbonyl sulfide sources from anthropogenic activity: Implications for carbon cycle constraints. <i>Geophysical Research Letters</i> , 2015 , 42, 3004-3010	4.9	67
155	Tolerance of photosynthesis to high temperature in desert plants. <i>Plant Physiology</i> , 1984 , 74, 786-90	6.6	67
154	Temperature and leaf osmotic potential as factors in the acclimation of photosynthesis to high temperature in desert plants. <i>Plant Physiology</i> , 1986 , 80, 926-30	6.6	66
153	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
152	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
151	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
150	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
149	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
148	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
147	Modeling of Energy, Water, and CO ₂ Flux in a Temperate Grassland Ecosystem with SiB2: May-October 1987. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 1141-1169	2.1	60
146	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
145	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
144	Recovery of photosynthesis after exposure of intertidal algae to osmotic and temperature stresses: comparative studies of species with differing distributional limits. <i>Oecologia</i> , 1986 , 70, 6-12	2.9	59
143	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
142	Photosynthesis: principles and field techniques 1989 , 209-253		57
141	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
140	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

139	Environmental Regulation of Photosynthesis 1982 , 263-343		54
138	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
137	Membrane phospholipid phase separations in plants adapted to or acclimated to different thermal regimes. <i>Plant Physiology</i> , 1980 , 66, 238-41	6.6	52
136	Low and High Temperature Limits to PSII : A Survey Using trans-Parinaric Acid, Delayed Light Emission, and F(o) Chlorophyll Fluorescence. <i>Plant Physiology</i> , 1989 , 91, 1494-500	6.6	51
135	Biochemical Model of C ₃ Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2009 , 209-230	1.7	51
134	Materials and methods for carbon dioxide and water exchange analysis§. <i>Plant, Cell and Environment</i> , 2006 , 3, 371-376	8.4	50
133	High-Efficiency Photosynthesis. <i>Scientific American</i> , 1973 , 229, 80-93	0.5	49
132	Inorganic carbon transport in aquatic photosynthetic organisms. <i>Physiologia Plantarum</i> , 1985 , 65, 539-543	4.6	48
131	Forest biomass allometry in global land surface models. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a	5.9	47
130	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
129	Effects of pH on Activity and Activation of Ribulose 1,5-Bisphosphate Carboxylase at Air Level CO ₂ . <i>Plant Physiology</i> , 1986 , 82, 77-82	6.6	47
128	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
127	Plants and high temperature stress. <i>Symposia of the Society for Experimental Biology</i> , 1988 , 42, 329-46		46
126	Photosynthetic Control of Electron Transport in Leaves of Phaseolus Vulgaris: Evidence for Regulation of Photosystem 2 by the Proton Gradient 1987 , 553-556		46
125	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
124	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
123	Remote sensing of heterogeneity in photosynthetic efficiency, electron transport and dissipation of excess light in Populus deltoides 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
122	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

121	Allometric growth and allocation in forests: a perspective from FLUXNET 2011 , 21, 1546-56		42
120	Growth Temperature-Induced Alterations in the Thermotropic Properties of Nerium oleander Membrane Lipids. <i>Plant Physiology</i> , 1982 , 70, 215-8	6.6	41
119	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
118	Effects of O(2) and CO(2) Concentration on the Steady-State Fluorescence Yield of Single Guard Cell Pairs in Intact Leaf Discs of Tradescantia albiflora: Evidence for Rubisco-Mediated CO(2) Fixation and Photorespiration in Guard Cells. <i>Plant Physiology</i> , 1992 , 99, 1238-44	6.6	39
117	Solar Induced Chlorophyll Fluorescence: Origins, Relation to Photosynthesis and Retrieval 2018 , 143-162		39
116	Interannual variability of photosynthesis across Africa and its attribution. <i>Journal of Geophysical Research</i> , 2008 , 113,		38
115	Non-steady state effects in diurnal 18O discrimination by Picea sitchensis branches in the field. <i>Plant, Cell and Environment</i> , 2006 , 29, 928-39	8.4	38
114	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
113	The reaction of the plant mitochondrial cyanide-resistant alternative oxidase with oxygen. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994 , 1188, 205-212	4.6	38
112	Effects of low temperature on respiration and uptake of rubidium ions by excised barley and corn roots. <i>Plant Physiology</i> , 1978 , 61, 858-60	6.6	38
111	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
110	A 3-dimensional study of delta18O in atmospheric CO ₂ : contribution of different land ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 642-667	3.3	37
109	Photosynthesis: Temperate and Tropical Characteristics within a Single Grass Genus. <i>Science</i> , 1969 , 163, 78-9	33.3	37
108	Radiance-based NIRv as a proxy for GPP of corn and soybean. <i>Environmental Research Letters</i> , 2020 , 15, 034009	6.2	36
107	Dependence of the Extent and Direction of Average Stomatal Response in Zea mays L. and Phaseolus vulgaris L. on the Frequency of Fluctuations in Environmental Stimuli. <i>Plant Physiology</i> , 1994 , 105, 1007-1013	6.6	36
106	Glycolate Excretion and the Oxygen to Carbon Dioxide Net Exchange Ratio during Photosynthesis in Chlamydomonas reinhardtii. <i>Plant Physiology</i> , 1981 , 67, 229-32	6.6	36
105	Diurnal and annual exchanges of mass and energy between an aspen-hazelnut forest and the atmosphere: Testing the mathematical model Ecosys with data from the BOREAS experiment. <i>Journal of Geophysical Research</i> , 1999 , 104, 27699-27717		35
104	Tropical sources and sinks of carbonyl sulfide observed from space. <i>Geophysical Research Letters</i> , 2015 , 42, 10,082-10,090	4.9	33

103	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
102	Photosynthesis and photorespiration in a mutant of the cyanobacterium <i>Synechocystis</i> PCC 6803 lacking carboxysomes. <i>Planta</i> , 1992 , 187, 511-6	4.7	33
101	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
100	Moist synoptic transport of CO ₂ along the mid-latitude storm track. <i>Geophysical Research Letters</i> , 2011 , 38,	4.9	32
99	Isotope Fractionation during Oxygen Production and Consumption by Plants 1987 , 597-600		32
98	Effects of carbonyl sulfide and carbonic anhydrase on stomatal conductance. <i>Plant Physiology</i> , 2012 , 158, 524-30	6.6	31
97	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
96	Photosynthesis and Microclimate of <i>Camissonia Claviformis</i> , A Desert Winter Annual. <i>Ecology</i> , 1979 , 60, 280-286	4.6	31
95	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
94	Diurnally variable $\delta^{18}\text{O}$ signatures of soil CO ₂ fluxes indicate carbonic anhydrase activity in a forest soil. <i>Journal of Geophysical Research</i> , 2006 , 111,		30
93	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
92	A 3-dimensional study of $\delta^{18}\text{O}$ in atmospheric CO ₂ : contribution of different land ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 642-667	3.3	30
91	Amazon rainforest photosynthesis increases in response to atmospheric dryness. <i>Science Advances</i> , 2020 , 6,	14.3	30
90	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
89	Ubiquinone redox behavior in plant mitochondria during electron transport. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 317, 156-60	4.1	29
88	Potential Consequences of Virus Infection for Shade-Sun Acclimation in Leaves. <i>Botanica Acta</i> , 1990 , 103, 226-229		29
87	Chlorophyll fluorescence at high temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1982 , 679, 474-478	4.6	29
86	Hydrologic resilience and Amazon productivity. <i>Nature Communications</i> , 2017 , 8, 387	17.4	28

85	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
84	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
83	There ought to be an equation for that. <i>Annual Review of Plant Biology</i> , 2012 , 63, 1-17	30.7	27
82	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
81	Life form-specific variations in leaf water oxygen-18 enrichment in Amazonian vegetation. <i>Oecologia</i> , 2008 , 157, 197-210	2.9	26
80	The influence of molybdenum on iron nutrition of tomato. <i>Plant and Soil</i> , 1967 , 27, 303-313	4.2	25
79	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
78	Canopy Carbon Gain and Water Use: Analysis of Old-growth Conifers in the Pacific Northwest. <i>Ecosystems</i> , 2004 , 7, 482	3.9	23
77	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
76	How cropland losses shaped by unbalanced urbanization process?. <i>Land Use Policy</i> , 2020 , 96, 104715	5.6	22
75	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. <i>Remote Sensing of Environment</i> , 2018 , 211, 26-37	13.2	22
74	Daily and seasonal dynamics of remotely sensed photosynthetic efficiency in tree canopies. <i>Tree Physiology</i> , 2014 , 34, 674-85	4.2	22
73	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
72	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
71	Ecosystem carbon exchange in two terrestrial ecosystem mesocosms under changing atmospheric CO concentrations. <i>Oecologia</i> , 1999 , 119, 97-108	2.9	22
70	Control of photosynthetic carbon dioxide fixation by the boundary layer, stomata and ribulose 1,5-biphosphate carboxylase/oxygenase. <i>Plant, Cell and Environment</i> , 1990 , 13, 339-347	8.4	22
69	Variable carbon isotope ratios of <i>Dudleya</i> species growing in natural environments. <i>Oecologia</i> , 1977 , 30, 307-311	2.9	22
68	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

67	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
66	An experimental and modeling study of responses in ecosystems carbon exchanges to increasing CO ₂ concentrations using a tropical rainforest mesocosm. <i>Functional Plant Biology</i> , 1998 , 25, 547	2.7	21
65	A radiative transfer model for solar induced fluorescence using spectral invariants theory. <i>Remote Sensing of Environment</i> , 2020 , 240, 111678	13.2	20
64	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
63	Taxonomic Application of Isozyme Patterns Produced with Disc Electrophoresis of Some Myxomycetes, Order Physarales. <i>Mycologia</i> , 1972 , 64, 830-840	2.4	19
62	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
61	Photosynthetic characteristics of plants of a Californian cool coastal environment. <i>Oecologia</i> , 1983 , 57, 38-42	2.9	18
60	An ecosystem model for tropical forest disturbance and selective logging. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		17
59	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
58	Estimation of leaf area with an integrating sphere. <i>Tree Physiology</i> , 1997 , 17, 571-576	4.2	16
57	The incorporation of (18O) oxygen into glycolate by intact isolated chloroplasts. <i>FEBS Letters</i> , 1977 , 78, 199-202	3.8	16
56	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
55	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
54	Studies of Mechanisms Affecting the Fractionation of Carbon Isotopes in Photosynthesis. <i>Ecological Studies</i> , 1989 , 82-94	1.1	15
53	Photosynthetic fluorescence, from molecule to planet. <i>Physics Today</i> , 2015 , 68, 66-67	0.9	14
52	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
51	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
50	Biosphere, Atmosphere, Ocean Interactions: A Plant Physiologist's Perspective 1992 , 441-454		14

49	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
48	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
47	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. <i>Global Change Biology</i> , 2021 , 27, 2144-2158	11.4	13
46	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	4.9	12
45	A General Expression for the Control of the Rate of Photosynthetic CO ₂ Fixation by Stomata, the Boundary Layer and Radiation Exchange 1987 , 225-228		12
44	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
43	Leaf development, gas exchange characteristics, and photorespiratory activity in maize seedlings. <i>Photosynthetica</i> , 2010 , 48, 617-622	2.2	11
42	Allometric constraints on sources of variability in multi-angle reflectance measurements. <i>Remote Sensing of Environment</i> , 2010 , 114, 1205-1219	13.2	11
41	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
40	Fluctuating [CO ₂] Drives Species-Specific Changes in Water Use Efficiency. <i>Journal of Biogeography</i> , 1995 , 22, 203	4.1	10
39	The 18O of Water in the Metabolic Compartment of Transpiring Leaves 1993 , 529-540		10
38	The relation between membrane lipid phase separation and frost tolerance of cereals and other cool climate plant species. <i>Plant, Cell and Environment</i> , 1982 , 5, 241-244	8.4	9
37	Photosynthesis: principles and field techniques 2000 , 209-253		9
36	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
35	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
34	Remote chlorophyll fluorescence measurements with the laser-induced fluorescence transient approach. <i>Methods in Molecular Biology</i> , 2012 , 918, 51-9	1.4	7
33	Measurement of Photochemical and Non-photochemical quenching: Correction for turnover of PS2 during steady-state photosynthesis 1990 , 3073-3076		7
32	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). <i>Biogeosciences</i> , 2021 , 18, 6547-6565	4.6	7

31	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
30	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
29	Protection from uv radiation in the economic crop, Opuntia SPP.. <i>Economic Botany</i> , 2004 , 58, S88-S100	1.7	5
28	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
27	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake		5
26	Simulation of Ecosystem C18OO Isotope Fluxes in A Tallgrass Prairie 2005 , 154-170		5
25	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
24	Representing plant diversity in land models: An evolutionary approach to make 'Functional Types' more functional.. <i>Global Change Biology</i> , 2021 ,	11.4	4
23	Reviews and Syntheses: Carbonyl Sulfide as a Multi-scale Tracer for Carbon and Water Cycles		4
22	Spatial and Temporal Heterogeneities of Photosynthesis Detected through Analysis of Chlorophyll-Fluorescence Images of Leaves 1990 , 3367-3372		4
21	FLUORESCENCE POLARIZATION STUDIES OF MEMBRANE PHOSPHOLIPID PHASE SEPARATIONS IN WARM AND COOL CLIMATE PLANTS 1979 , 305-318		4
20	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
19	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
18	A physiological signal derived from sun-induced chlorophyll fluorescence quantifies crop physiological response to environmental stresses in the U.S. Corn Belt. <i>Environmental Research Letters</i> ,	6.2	3
17	Canopy structure explains the relationship between photosynthesis and sun-induced chlorophyll fluorescence in crops		3
16	Estimating near-infrared reflectance of vegetation from hyperspectral data. <i>Remote Sensing of Environment</i> , 2021 , 267, 112723	13.2	3
15	Can we retrieve vegetation photosynthetic capacity paramter from solar-induced fluorescence? 2016 ,		3
14	Improving respiration measurements with gas exchange analyzers. <i>Journal of Plant Physiology</i> , 2016 , 207, 73-77	3.6	2

13	Using boundary layer equilibrium to reduce uncertainties in transport models and CO ₂ flux inversions		2
12	A kinetic analysis of leaf uptake of COS and its relation to transpiration, photosynthesis and carbon isotope fractionation		2
11	Phenology-pigment based automated peanut mapping using sentinel-2 images. <i>GIScience and Remote Sensing</i> , 1-17	4.8	2
10	Response to Comments on "Recent global decline of CO fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
9	Radiochemical assay of ribulose bisphosphate carboxylase. <i>Biochemical Education</i> , 1989 , 17, 96-98		1
8	Limitation of Photosynthesis by RuBP Regeneration Rate 1986 , 33-43		1
7	The impact of indicator selection on assessment of global greening. <i>GIScience and Remote Sensing</i> , 2021 , 58, 372-385	4.8	1
6	Remote Monitoring of Photosynthetic Efficiency Using Laser Induced Fluorescence Transient (LIFT) Technique 2008 , 1539-1543		1
5	The limiting factors and regulatory processes that control the environmental responses of C ₃ , C ₃ -C ₄ intermediate, and C ₄ photosynthesis. <i>Oecologia</i> , 2021 , 197, 841-866	2.9	0
4	Dense canopies browning overshadowed by global greening dominant in sparse canopies.. <i>Science of the Total Environment</i> , 2022 , 826, 154222	10.2	0
3	Introduction. <i>Photosynthesis Research</i> , 2001 , 67, 1-3	3.7	
2	Evidence for Carbon Fixation and Photorespiration in Guard Cells of <i>Tradescantia Albiflora</i> 1992 , 915-918		
1	Isolation, Identification, and Synthesis of Carboxyarabinitol-1-Phosphate, A Diurnal Regulator of Ribulosebisphosphate Carboxylase Activiy 1987 , 387-390		