

Russell K Monson

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.

143
papers

14,339
citations

66
h-index

118
g-index

147
ext. papers

15,724
ext. citations

6.6
avg, IF

6.18
L-index

#	Paper	IF	Citations
143	Heterogeneous isotope effects decouple conifer leaf and branch sugar δ and δ .. <i>Oecologia</i> , 2022 , 198, 357	2.9	0
142	Coordinated resource allocation to plant growth-defense tradeoffs. <i>New Phytologist</i> , 2021 ,	9.8	4
141	Vapor pressure deficit helps explain biogenic volatile organic compound fluxes from the forest floor and canopy of a temperate deciduous forest. <i>Oecologia</i> , 2021 , 197, 971-988	2.9	1
140	Seasonal and diurnal trends in progressive isotope enrichment along needles in two pine species. <i>Plant, Cell and Environment</i> , 2021 , 44, 143-155	8.4	5
139	Leaf isoprene emission as a trait that mediates the growth-defense tradeoff in the face of climate stress. <i>Oecologia</i> , 2021 , 197, 885-902	2.9	16
138	High productivity in hybrid-poplar plantations without isoprene emission to the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1596-1605	11.5	17
137	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
136	Some like it hot: the physiological ecology of C plant evolution. <i>Oecologia</i> , 2018 , 187, 941-966	2.9	30
135	Disentangling seasonal and interannual legacies from inferred patterns of forest water and carbon cycling using tree-ring stable isotopes. <i>Global Change Biology</i> , 2018 , 24, 5332-5347	11.4	34
134	Isoprene research - 60 years later, the biology is still enigmatic. <i>Plant, Cell and Environment</i> , 2017 , 40, 1671-1678	8.4	56
133	Climate controls over ecosystem metabolism: insights from a fifteen-year inductive artificial neural network synthesis for a subalpine forest. <i>Oecologia</i> , 2017 , 184, 25-41	2.9	17
132	Beyond greenness: Detecting temporal changes in photosynthetic capacity with hyperspectral reflectance data. <i>PLoS ONE</i> , 2017 , 12, e0189539	3.7	30
131	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , 2017 , 23, 1240-1257	11.4	66
130	Latitudinal gradients in tree ring stable carbon and oxygen isotopes reveal differential climate influences of the North American Monsoon System. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1978-1991	3.7	48
129	Interactions between temperature and intercellular CO concentration in controlling leaf isoprene emission rates. <i>Plant, Cell and Environment</i> , 2016 , 39, 2404-2413	8.4	12
128	Differential responses of carbon and water vapor fluxes to climate among evergreen needleleaf forests in the USA. <i>Ecological Processes</i> , 2016 , 5,	3.6	8
127	Differential controls by climate and physiology over the emission rates of biogenic volatile organic compounds from mature trees in a semi-arid pine forest. <i>Oecologia</i> , 2016 , 180, 345-58	2.9	12

126	The Niwot Ridge Subalpine Forest US-NR1 AmeriFlux site [Part I]: Data acquisition and site record-keeping. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016 , 5, 451-471	1.5	9
125	Conifer Monoterpene Chemistry during an Outbreak Enhances Consumption and Immune Response of an Eruptive Folivore. <i>Journal of Chemical Ecology</i> , 2016 , 42, 1281-1292	2.7	8
124	Earlier snowmelt reduces atmospheric carbon uptake in midlatitude subalpine forests. <i>Geophysical Research Letters</i> , 2016 , 43, 8160-8168	4.9	41
123	Changes in soil biogeochemistry following disturbance by girdling and mountain pine beetles in subalpine forests. <i>Oecologia</i> , 2015 , 177, 981-95	2.9	17
122	Fluxes of energy, water, and carbon dioxide from mountain ecosystems at Niwot Ridge, Colorado. <i>Plant Ecology and Diversity</i> , 2015 , 8, 663-676	2.2	42
121	The future of isoprene emission from leaves, canopies and landscapes. <i>Plant, Cell and Environment</i> , 2014 , 37, 1727-40	8.4	52
120	Joint data assimilation of satellite reflectance and net ecosystem exchange data constrains ecosystem carbon fluxes at a high-elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2014 , 195-196, 73-88	5.8	15
119	Biotic and abiotic controls on biogenic volatile organic compound fluxes from a subalpine forest floor. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 547-556	3.7	28
118	Stable isotopes in tree rings: towards a mechanistic understanding of isotope fractionation and mixing processes from the leaves to the wood. <i>Tree Physiology</i> , 2014 , 34, 796-818	4.2	286
117	Snow Temperature Changes within a Seasonal Snowpack and Their Relationship to Turbulent Fluxes of Sensible and Latent Heat. <i>Journal of Hydrometeorology</i> , 2014 , 15, 117-142	3.7	33
116	Why only some plants emit isoprene. <i>Plant, Cell and Environment</i> , 2013 , 36, 503-16	8.4	89
115	Persistent reduced ecosystem respiration after insect disturbance in high elevation forests. <i>Ecology Letters</i> , 2013 , 16, 731-7	10	78
114	Metabolic and Gene Expression Controls on the Production of Biogenic Volatile Organic Compounds. <i>Tree Physiology</i> , 2013 , 153-179		15
113	Forecasting net ecosystem CO ₂ exchange in a subalpine forest using model data assimilation combined with simulated climate and weather generation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 549-565	3.7	11
112	Modeling the isoprene emission rate from leaves. <i>New Phytologist</i> , 2012 , 195, 541-559	9.8	96
111	Contribution of various carbon sources toward isoprene biosynthesis in poplar leaves mediated by altered atmospheric CO ₂ concentrations. <i>PLoS ONE</i> , 2012 , 7, e32387	3.7	41
110	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program Site Synthesis. <i>Global Change Biology</i> , 2012 , 18, 566-584	11.4	481
109	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012 , 18, 973-984	11.4	87

108	Variation among different genotypes of hybrid poplar with regard to leaf volatile organic compound emissions 2012 , 22, 1865-75		22
107	An interannual assessment of the relationship between the stable carbon isotopic composition of ecosystem respiration and climate in a high-elevation subalpine forest. <i>Journal of Geophysical Research</i> , 2011 , 116,		17
106	Seasonal pattern of regional carbon balance in the central Rocky Mountains from surface and airborne measurements. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
105	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 60-69	5.8	145
104	Atmospheric Stability Effects on Wind Fields and Scalar Mixing Within and Just Above a Subalpine Forest in Sloping Terrain. <i>Boundary-Layer Meteorology</i> , 2011 , 138, 231-262	3.4	39
103	Enhanced isoprene-related tolerance of heat- and light-stressed photosynthesis at low, but not high, CO ₂ concentrations. <i>Oecologia</i> , 2011 , 166, 273-82	2.9	48
102	Observed increase in local cooling effect of deforestation at higher latitudes. <i>Nature</i> , 2011 , 479, 384-7	50.4	403
101	Modeling whole-tree carbon assimilation rate using observed transpiration rates and needle sugar carbon isotope ratios. <i>New Phytologist</i> , 2010 , 185, 1000-15	9.8	51
100	Longer growing seasons lead to less carbon sequestration by a subalpine forest. <i>Global Change Biology</i> , 2010 , 16, 771-783	11.4	244
99	Perspectives on next-generation technology for environmental sensor networks. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 193-200	5.5	26
98	A model-data intercomparison of CO ₂ exchange across North America: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2010 , 115,		216
97	Emissions of volatile organic compounds during the decomposition of plant litter. <i>Journal of Geophysical Research</i> , 2010 , 115,		87
96	Weather and climate controls over the seasonal carbon isotope dynamics of sugars from subalpine forest trees. <i>Plant, Cell and Environment</i> , 2010 , 33, 35-47	8.4	15
95	Tree species effects on ecosystem water-use efficiency in a high-elevation, subalpine forest. <i>Oecologia</i> , 2010 , 162, 491-504	2.9	47
94	Reactions of Biogenic Volatile Organic Compounds in the Atmosphere 2010 , 363-388		0
93	Ecohydrological controls on snowmelt partitioning in mixed-conifer sub-alpine forests. <i>Ecohydrology</i> , 2009 , 2, 129-142	2.5	118
92	The trade-off between growth rate and yield in microbial communities and the consequences for under-snow soil respiration in a high elevation coniferous forest. <i>Biogeochemistry</i> , 2009 , 95, 23-35	3.8	89
91	A comparison of water and carbon dioxide exchange at a windy alpine tundra and subalpine forest site near Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2009 , 95, 61-76	3.8	57

90	Response of isoprene emission to ambient CO ₂ changes and implications for global budgets. <i>Global Change Biology</i> , 2009 , 15, 1127-1140	11.4	138
89	Leaf isoprene emission rate as a function of atmospheric CO ₂ concentration. <i>Global Change Biology</i> , 2009 , 15, 1189-1200	11.4	121
88	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. <i>Global Change Biology</i> , 2009 , 15, 2905-2920	11.4	84
87	Controls over ozone deposition to a high elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 1447-1459	5.8	35
86	Canopy structure and atmospheric flows in relation to the $\delta^{13}C$ of respired CO ₂ in a subalpine coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 592-605	5.8	39
85	Estimating transpiration and the sensitivity of carbon uptake to water availability in a subalpine forest using a simple ecosystem process model informed by measured net CO ₂ and H ₂ O fluxes. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 1467-1477	5.8	63
84	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 1827-1847	5.8	191
83	The contribution of advective fluxes to net ecosystem exchange in a high-elevation, subalpine forest 2008 , 18, 1379-90		70
82	Estimating sublimation of intercepted and sub-canopy snow using eddy covariance systems. <i>Hydrological Processes</i> , 2007 , 21, 1567-1575	3.3	93
81	The relationship between isoprene emission rate and dark respiration rate in white poplar (<i>Populus alba</i> L.) leaves. <i>Plant, Cell and Environment</i> , 2007 , 30, 662-9	8.4	76
80	Biogenic Hydrocarbon Chemistry within and Above a Mixed Deciduous Forest. <i>Journal of Atmospheric Chemistry</i> , 2007 , 56, 165-185	3.2	62
79	Coupling between carbon cycling and climate in a high-elevation, subalpine forest: a model-data fusion analysis. <i>Oecologia</i> , 2007 , 151, 54-68	2.9	97
78	The effects of tree rhizodeposition on soil exoenzyme activity, dissolved organic carbon, and nutrient availability in a subalpine forest ecosystem. <i>Oecologia</i> , 2007 , 154, 327-38	2.9	181
77	The effect of elevated CO ₂ , soil and atmospheric water deficit and seasonal phenology on leaf and ecosystem isoprene emission. <i>Functional Plant Biology</i> , 2007 , 34, 774-784	2.7	25
76	CO ₂ transport over complex terrain. <i>Agricultural and Forest Meteorology</i> , 2007 , 145, 1-21	5.8	83
75	Isoprene emission from terrestrial ecosystems in response to global change: minding the gap between models and observations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1677-95	3	108
74	A multiyear evaluation of a Dynamic Global Vegetation Model at three AmeriFlux forest sites: Vegetation structure, phenology, soil temperature, and CO ₂ and H ₂ O vapor exchange. <i>Ecological Modelling</i> , 2006 , 196, 1-31	3	147
73	Nitrogen and carbon storage in alpine plants. <i>Integrative and Comparative Biology</i> , 2006 , 46, 35-48	2.8	31

72	The contribution of beneath-snow soil respiration to total ecosystem respiration in a high-elevation, subalpine forest. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	79
71	On the use of MODIS EVI to assess gross primary productivity of North American ecosystems. <i>Journal of Geophysical Research</i> , 2006 , 111,		215
70	Model-data synthesis of diurnal and seasonal CO ₂ fluxes at Niwot Ridge, Colorado. <i>Global Change Biology</i> , 2006 , 12, 240-259	11.4	85
69	Differential controls by climate and substrate over the heterotrophic and rhizospheric components of soil respiration. <i>Global Change Biology</i> , 2006 , 12, 205-216	11.4	239
68	Winter forest soil respiration controlled by climate and microbial community composition. <i>Nature</i> , 2006 , 439, 711-4	50.4	411
67	Midday values of gross CO ₂ flux and light use efficiency during satellite overpasses can be used to directly estimate eight-day mean flux. <i>Agricultural and Forest Meteorology</i> , 2005 , 131, 1-12	5.8	99
66	Modeling and measuring the nocturnal drainage flow in a high-elevation, subalpine forest with complex terrain. <i>Journal of Geophysical Research</i> , 2005 , 110,		60
65	The interacting effects of elevated atmospheric CO ₂ concentration, drought and leaf-to-air vapour pressure deficit on ecosystem isoprene fluxes. <i>Oecologia</i> , 2005 , 146, 120-9	2.9	35
64	Climatic influences on net ecosystem CO ₂ exchange during the transition from wintertime carbon source to springtime carbon sink in a high-elevation, subalpine forest. <i>Oecologia</i> , 2005 , 146, 130-47	2.9	152
63	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
62	A nonparametric method for separating photosynthesis and respiration components in CO ₂ flux measurements. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	21
61	Airflows and turbulent flux measurements in mountainous terrain: Part 2: Mesoscale effects. <i>Agricultural and Forest Meteorology</i> , 2004 , 125, 187-205	5.8	50
60	Gap-filling missing data in eddy covariance measurements using multiple imputation (MI) for annual estimations. <i>Agricultural and Forest Meteorology</i> , 2004 , 121, 93-111	5.8	127
59	Isoprenoid Metabolism 2004 , 625-628		
58	The many faces of plant carbon relations: forging an ecophysiological identity in the age of human influence. <i>New Phytologist</i> , 2003 , 157, 167-170	9.8	5
57	Increased CO ₂ uncouples growth from isoprene emission in an agriforest ecosystem. <i>Nature</i> , 2003 , 421, 256-9	50.4	274
56	The uptake of gaseous organic nitrogen by leaves: A significant global nitrogen transfer process. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	62
55	Spatial and temporal controls of soil respiration rate in a high-elevation, subalpine forest. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 525-534	7.5	141

54	Airflows and turbulent flux measurements in mountainous terrain. <i>Agricultural and Forest Meteorology</i> , 2003 , 119, 1-21	5.8	126
53	Supply and demand processes as controls over needle monoterpene synthesis and concentration in Douglas fir [<i>Pseudotsuga menziesii</i> (Mirb.) Franco]. <i>Oecologia</i> , 2002 , 132, 382-391	2.9	39
52	Carbon sequestration studied in western U.S. mountains. <i>Eos</i> , 2002 , 83, 445	1.5	89
51	Volatile organic compound emissions from terrestrial ecosystems: A primary biological control over atmospheric chemistry. <i>Israel Journal of Chemistry</i> , 2002 , 42, 29-42	3.4	28
50	Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002 , 113, 53-74	5.8	54 ^o
49	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002 , 113, 75-95	5.8	136
48	Leaf uptake of nitrogen dioxide (NO ₂) in a tropical wet forest: implications for tropospheric chemistry. <i>Oecologia</i> , 2001 , 127, 214-221	2.9	80
47	Night-time respiration rate and leaf carbohydrate concentrations are not coupled in two alpine perennial species. <i>New Phytologist</i> , 2001 , 149, 419-430	9.8	15
46	Partitioning net ecosystem carbon exchange with isotopic fluxes of CO ₂ . <i>Global Change Biology</i> , 2001 , 7, 127-145	11.4	164
45	Biospheric Trace Gas Fluxes and Their Control Over Tropospheric Chemistry. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2001 , 32, 547-576		103
44	Biochemistry and physiology of foliar isoprene production. <i>Trends in Plant Science</i> , 2000 , 5, 477-81	13.1	98
43	Carbon availability and temperature control the post-snowmelt decline in alpine soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 441-448	7.5	193
42	HERBIVORE-INDUCED MONOTERPENE EMISSIONS FROM CONIFEROUS FORESTS: POTENTIAL IMPACT ON LOCAL TROPOSPHERIC CHEMISTRY 1999 , 9, 1147-1159		24
41	Scaling Isoprene Fluxes from Leaves to Canopies: Test Cases over a Boreal Aspen and a Mixed Species Temperate Forest. <i>Journal of Applied Meteorology and Climatology</i> , 1999 , 38, 885-898		41
40	Thermotolerance of leaf discs from four isoprene-emitting species is not enhanced by exposure to exogenous isoprene. <i>Plant Physiology</i> , 1999 , 120, 821-6	6.6	58
39	Ectomycorrhizal transfer of amino acid-nitrogen to the alpine sedge <i>Kobresia myosuroides</i> . <i>New Phytologist</i> , 1999 , 142, 163-167	9.8	29
38	Monoterpene emission from coniferous trees in response to elevated CO ₂ concentration and climate warming. <i>Global Change Biology</i> , 1999 , 5, 252-267	11.4	63
37	Modelling changes in VOC emission in response to climate change in the continental United States. <i>Global Change Biology</i> , 1999 , 5, 791-806	11.4	65

36	Ecological and evolutionary aspects of isoprene emission from plants. <i>Oecologia</i> , 1999 , 118, 109-123	2.9	193
35	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1623-1631	4.6	269
34	SOIL AMINO ACID UTILIZATION AMONG SPECIES OF THE CYPERACEAE: PLANT AND SOIL PROCESSES. <i>Ecology</i> , 1999 , 80, 2408-2419	4.6	143
33	SEASONAL PARTITIONING OF NITROGEN BY PLANTS AND SOIL MICROORGANISMS IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1883-1891	4.6	158
32	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM 1999 , 80, 1623		7
31	HERBIVORE-INDUCED MONOTERPENE EMISSIONS FROM CONIFEROUS FORESTS: POTENTIAL IMPACT ON LOCAL TROPOSPHERIC CHEMISTRY 1999 , 9, 1147		1
30	Plant-microbe competition for soil amino acids in the alpine tundra: effects of freeze-thaw and dry-rewet events. <i>Oecologia</i> , 1998 , 113, 406-414	2.9	415
29	Patterns of induced and constitutive monoterpene production in conifer needles in relation to insect herbivory. <i>Oecologia</i> , 1998 , 114, 531-540	2.9	154
28	Controls over monoterpene emissions from boreal forest conifers. <i>Tree Physiology</i> , 1997 , 17, 563-569	4.2	68
27	Non-mycorrhizal uptake of amino acids by roots of the alpine sedge <i>Kobresia myosuroides</i> : implications for the alpine nitrogen cycle. <i>Oecologia</i> , 1996 , 108, 488-494	2.9	141
26	Ecological Controls over Monoterpene Emissions from Douglas-Fir (<i>Pseudotsuga Menziesii</i>). <i>Ecology</i> , 1995 , 76, 2640-2647	4.6	84
25	Biological aspects of constructing volatile organic compound emission inventories. <i>Atmospheric Environment</i> , 1995 , 29, 2989-3002	5.3	108
24	Sexual differences in gas exchange and response to environmental stress in dioecious <i>Silene latifolia</i> (Caryophyllaceae). <i>American Journal of Botany</i> , 1994 , 81, 166-174	2.7	27
23	Sexual differences in gas exchange and response to environmental stress in dioecious <i>Silene latifolia</i> (Caryophyllaceae) 1994 , 81, 166		58
22	Isoprene and monoterpene emission rate variability: Model evaluations and sensitivity analyses. <i>Journal of Geophysical Research</i> , 1993 , 98, 12609		1143
21	Isoprene emission rate and intercellular isoprene concentration as influenced by stomatal distribution and conductance. <i>Plant Physiology</i> , 1992 , 100, 987-92	6.6	134
20	Relationships among Isoprene Emission Rate, Photosynthesis, and Isoprene Synthase Activity as Influenced by Temperature. <i>Plant Physiology</i> , 1992 , 98, 1175-80	6.6	234
19	Adaptive significance of nitrogen storage in <i>Bistorta bistortoides</i> , an alpine herb. <i>Oecologia</i> , 1992 , 92, 578-585	2.9	54

18	Isoprene and monoterpene emission rate variability: Observations with eucalyptus and emission rate algorithm development. <i>Journal of Geophysical Research</i> , 1991 , 96, 10799		424
17	Physiological Reality in Relation to Ecosystem- and Global-Level Estimates of Isoprene Emission 1991 , 185-207		19
16	PHOTOSYNTHETIC CHARACTERISTICS OF C3-C4 INTERMEDIATE FLAVERIA FLORIDANA (ASTERACEAE) IN NATURAL HABITATS: EVIDENCE OF ADVANTAGES TO C3-C4 PHOTOSYNTHESIS AT HIGH LEAF TEMPERATURES. <i>American Journal of Botany</i> , 1991 , 78, 795-800	2.7	21
15	PHOTOSYNTHETIC CHARACTERISTICS OF C3-C4 INTERMEDIATE FLAVERIA FLORIDANA (ASTERACEAE) IN NATURAL HABITATS: EVIDENCE OF ADVANTAGES TO C3-C4 PHOTOSYNTHESIS AT HIGH LEAF TEMPERATURES 1991 , 78, 795		13
14	A branch chamber system and techniques for simultaneous pollutant exposure experiments and gaseous flux determinations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 170-182	3.3	7
13	Flux determinations and physiological response in the exposure of red spruce to gaseous hydrogen peroxide, ozone, and sulphur dioxide. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 183-199	3.3	9
12	EXPERIMENTAL STUDIES OF PONDEROSA PINE. III. DIFFERENCES IN PHOTOSYNTHESIS, STOMATAL CONDUCTANCE, AND WATER-USE EFFICIENCY BETWEEN TWO GENETIC LINES. <i>American Journal of Botany</i> , 1989 , 76, 1041-1047	2.7	23
11	Isoprene emission from aspen leaves : influence of environment and relation to photosynthesis and photorespiration. <i>Plant Physiology</i> , 1989 , 90, 267-74	6.6	316
10	The relative contributions of reduced photorespiration, and improved water-and nitrogen-use efficiencies, to the advantages of C-C intermediate photosynthesis in Flaveria. <i>Oecologia</i> , 1989 , 80, 215-221	2.9	40
9	EXPERIMENTAL STUDIES OF PONDEROSA PINE. III. DIFFERENCES IN PHOTOSYNTHESIS, STOMATAL CONDUCTANCE, AND WATER-USE EFFICIENCY BETWEEN TWO GENETIC LINES 1989 , 76, 1041		14
8	Carbon Gain by Plants in Natural EnvironmentsCarbon assimilation analysis provides an understanding of how plants function in diverse environments. <i>BioScience</i> , 1987 , 37, 21-29	5.7	117
7	Field measurements of photosynthesis, water-use efficiency, and growth inAgropyron smithii (C) andBouteloua gracilis (C) in the Colorado shortgrass steppe. <i>Oecologia</i> , 1986 , 68, 400-409	2.9	47
6	Midday depression in net photosynthesis and stomatal conductance in Yucca glauca : Relative contributions of leaf temperature and leaf-to-air water vapor concentration difference. <i>Oecologia</i> , 1985 , 67, 380-387	2.9	53
5	A field study of photosynthetic temperature acclimation in Carex eleocharis Bailey. <i>Plant, Cell and Environment</i> , 1984 , 7, 301-308	8.4	8
4	C3- C4Intermediate Photosynthesis in Plants. <i>BioScience</i> , 1984 , 34, 563-574	5.7	123
3	Photosynthetic Characteristics of C(3)-C(4) Intermediate Flaveria Species : I. Leaf Anatomy, Photosynthetic Responses to O(2) and CO(2), and Activities of Key Enzymes in the C(3) and C(4) Pathways. <i>Plant Physiology</i> , 1983 , 71, 944-8	6.6	127
2	Temperature Dependence of Photosynthesis in Agropyron smithii Rydb. : I. FACTORS AFFECTING NET CO(2) UPTAKE IN INTACT LEAVES AND CONTRIBUTION FROM RIBULOSE-1,5-BISPHTHOSPHATE CARBOXYLASE MEASURED IN VIVO AND IN VITRO. <i>Plant Physiology</i> , 1982 , 69, 921-8	6.6	116
1	Seasonal Water Potential Components of Sonoran Desert Plants. <i>Ecology</i> , 1982 , 63, 113-123	4.6	61

