

Walter C Oechel

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.

251
papers

24,720
citations

75
h-index

154
g-index

262
ext. papers

26,955
ext. citations

6.9
avg, IF

6.14
L-index

#	Paper	IF	Citations
251	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems.. <i>Scientific Reports</i> , 2022 , 12, 3986	4.9	0
250	Response of vegetation and carbon fluxes to brown lemming herbivory in northern Alaska. <i>Biogeosciences</i> , 2022 , 19, 2779-2794	4.6	
249	Carbon response of tundra ecosystems to advancing greenup and snowmelt in Alaska. <i>Nature Communications</i> , 2021 , 12, 6879	17.4	2
248	Greenhouse Gases and Energy Fluxes at Permafrost Zone 2021 , 527-558		
247	Substantial hysteresis in emergent temperature sensitivity of global wetland CH emissions. <i>Nature Communications</i> , 2021 , 12, 2266	17.4	10
246	Ecosystem Scale Implication of Soil CO ₂ Concentration Dynamics During Soil Freezing in Alaskan Arctic Tundra Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005724	3.7	0
245	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021 , 301-302, 108350	5.8	43
244	Addressing biases in Arctic Boreal carbon cycling in the Community Land Model Version 5. <i>Geoscientific Model Development</i> , 2021 , 14, 3361-3382	6.3	2
243	Statistical upscaling of ecosystem CO fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021 , 27, 4040-4059	11.4	25
242	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021 , 13, 3607-3689	10.5	23
241	Blue carbon stocks and exchanges along the California coast. <i>Biogeosciences</i> , 2021 , 18, 4717-4732	4.6	1
240	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. <i>Agricultural and Forest Meteorology</i> , 2021 , 308-309, 108528	5.8	5
239	Snow melt stimulates ecosystem respiration in Arctic ecosystems. <i>Global Change Biology</i> , 2020 , 26, 5042-5051	10.5	7
238	Phosphorus alleviation of nitrogen-suppressed methane sink in global grasslands. <i>Ecology Letters</i> , 2020 , 23, 821-830	10	9
237	Investigating the sensitivity of soil heterotrophic respiration to recent snow cover changes in Alaska using a satellite-based permafrost carbon model. <i>Biogeosciences</i> , 2020 , 17, 5861-5882	4.6	2
236	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
235	Attribute parameter characterized the seasonal variation of gross primary productivity (GPP): Spatiotemporal variation and influencing factors. <i>Agricultural and Forest Meteorology</i> , 2020 , 280, 107774	5.8	4

234	A semi-analytical snow-free vegetation index for improving estimation of plant phenology in tundra and grassland ecosystems. <i>Remote Sensing of Environment</i> , 2019 , 228, 31-44	13.2	15
233	Mangrove wetland productivity and carbon stocks in an arid zone of the Gulf of California (La Paz Bay, Mexico). <i>Forest Ecology and Management</i> , 2019 , 442, 135-147	3.9	25
232	Sensitivity of Methane Emissions to Later Soil Freezing in Arctic Tundra Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2595-2609	3.7	15
231	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632	6.1	77
230	Understanding spatial variability of methane fluxes in Arctic wetlands through footprint modelling. <i>Environmental Research Letters</i> , 2019 , 14, 125010	6.2	5
229	Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. <i>Earth System Science Data</i> , 2019 , 11, 1263-1289	10.5	45
228	Seedling Establishment and Water Relations After Fire in a Mediterranean Ecosystem 2019 , 34-45		
227	Mechanistic Modeling of Microtopographic Impacts on CO ₂ and CH ₄ Fluxes in an Alaskan Tundra Ecosystem Using the CLM-Microbe Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4288-4304	7.1	11
226	Arctic greening associated with lengthening growing seasons in Northern Alaska. <i>Environmental Research Letters</i> , 2019 , 14, 125018	6.2	24
225	Large loss of CO in winter observed across the northern permafrost region.. <i>Nature Climate Change</i> , 2019 , 9, 852-857	21.4	112
224	Spring photosynthetic onset and net CO uptake in Alaska triggered by landscape thawing. <i>Global Change Biology</i> , 2018 , 24, 3416-3435	11.4	26
223	Using imaging spectroscopy to detect variation in terrestrial ecosystem productivity across a water-stressed landscape 2018 , 28, 1313-1324		24
222	Structural Complexity and Biomass of Arid Zone Mangroves in the Southwestern Gulf of California: Key Factors That Influence Fish Assemblages. <i>Journal of Coastal Research</i> , 2018 , 344, 979-986	0.6	6
221	Characterizing permafrost active layer dynamics and sensitivity to landscape spatial heterogeneity in Alaska. <i>Cryosphere</i> , 2018 , 12, 145-161	5.5	29
220	Temperature Response of Respiration Across the Heterogeneous Landscape of the Alaskan Arctic Tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2287-2302	3.7	5
219	Underwater Photo-Elicitation: A New Experiential Marine Education Technique. <i>Australian Journal of Environmental Education</i> , 2018 , 34, 33-60	0.6	3
218	Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. <i>Biogeosciences</i> , 2018 , 15, 1293-1318	4.6	79
217	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ , water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018 , 11, 497-519	6.3	32

216	Tundra photosynthesis captured by satellite-observed solar-induced chlorophyll fluorescence. <i>Geophysical Research Letters</i> , 2017 , 44, 1564-1573	4.9	47
215	CO exchange and evapotranspiration across dryland ecosystems of southwestern North America. <i>Global Change Biology</i> , 2017 , 23, 4204-4221	11.4	103
214	ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO ₂ and water and energy fluxes on daily to annual scales 2017 ,		1
213	The Analytical Objective Hysteresis Model (AnOHM v1.0): Methodology to Determine Bulk Storage Heat Flux Coefficients 2017 ,		1
212	Microbial community structure and soil pH correspond to methane production in Arctic Alaska soils. <i>Environmental Microbiology</i> , 2017 , 19, 3398-3410	5.2	21
211	Tundra water budget and implications of precipitation underestimation. <i>Water Resources Research</i> , 2017 , 53, 6472-6486	5.4	17
210	The Cooling Trend of Canopy Temperature During the Maturation, Succession, and Recovery of Ecosystems. <i>Ecosystems</i> , 2017 , 20, 406-415	3.9	6
209	The Analytical Objective Hysteresis Model (AnOHM v1.0): methodology to determine bulk storage heat flux coefficients. <i>Geoscientific Model Development</i> , 2017 , 10, 2875-2890	6.3	15
208	Upscaling CH ₄ Fluxes Using High-Resolution Imagery in Arctic Tundra Ecosystems. <i>Remote Sensing</i> , 2017 , 9, 1227	5	19
207	Latitudinal gradient of spruce forest understory and tundra phenology in Alaska as observed from satellite and ground-based data. <i>Remote Sensing of Environment</i> , 2016 , 177, 160-170	13.2	38
206	Cold season emissions dominate the Arctic tundra methane budget. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 40-5	11.5	217
205	A multi-scale comparison of modeled and observed seasonal methane emissions in northern wetlands. <i>Biogeosciences</i> , 2016 , 13, 5043-5056	4.6	22
204	Mapping Arctic Tundra Vegetation Communities Using Field Spectroscopy and Multispectral Satellite Data in North Alaska, USA. <i>Remote Sensing</i> , 2016 , 8, 978	5	36
203	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. <i>Global Change Biology</i> , 2016 , 22, 1867-79	11.4	111
202	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2016 , 68, 30575	3.3	16
201	Vegetation Type Dominates the Spatial Variability in CH ₄ Emissions Across Multiple Arctic Tundra Landscapes. <i>Ecosystems</i> , 2016 , 19, 1116-1132	3.9	41
200	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , 2016 , 6, 7352-7366	2.8	24
199	Temporal variations in air-sea CO ₂ exchange near large kelp beds near San Diego, California. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 50-63	3.3	15

198	Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. <i>Agricultural and Forest Meteorology</i> , 2015 , 211-212, 23-36	5.8	29
197	The uncertain climate footprint of wetlands under human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4594-9	11.5	138
196	Improved global simulations of gross primary product based on a new definition of water stress factor and a separate treatment of C3 and C4 plants. <i>Ecological Modelling</i> , 2015 , 297, 42-59	3	37
195	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. <i>Agricultural and Forest Meteorology</i> , 2015 , 205, 11-22	5.8	36
194	Elevated atmospheric CO ₂ stimulates soil fungal diversity through increased fine root production in a semiarid shrubland ecosystem. <i>Global Change Biology</i> , 2014 , 20, 2555-65	11.4	23
193	Change in surface energy balance in Alaska due to fire and spring warming, based on upscaling eddy covariance measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1947-1969 ^{3.7}	3.7	16
192	Latent heat exchange in the boreal and arctic biomes. <i>Global Change Biology</i> , 2014 , 20, 3439-56	11.4	43
191	Annual patterns and budget of CO ₂ flux in an Arctic tussock tundra ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 323-339	3.7	85
190	Carbon cycle uncertainty in the Alaskan Arctic. <i>Biogeosciences</i> , 2014 , 11, 4271-4288	4.6	69
189	Assessing the spatial variability in peak season CO ₂ exchange characteristics across the Arctic tundra using a light response curve parameterization. <i>Biogeosciences</i> , 2014 , 11, 4897-4912	4.6	16
188	Delayed responses of an Arctic ecosystem to an extreme summer: impacts on net ecosystem exchange and vegetation functioning. <i>Biogeosciences</i> , 2014 , 11, 5877-5888	4.6	20
187	A satellite data driven biophysical modeling approach for estimating northern peatland and tundra CO ₂ and CH ₄ fluxes. <i>Biogeosciences</i> , 2014 , 11, 1961-1980 ^{4.6}	4.6	15
186	Spatial and temporal variability of air-sea CO ₂ exchange of alongshore waters in summer near Barrow, Alaska. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 141, 37-46	2.9	5
185	Biogeochemical Cycling in Terrestrial Ecosystems - Individual Components, Interactions and Considerations Under Global Change 2014 , 335-340		
184	Spatial variation in landscape-level CO ₂ and CH ₄ fluxes from arctic coastal tundra: influence from vegetation, wetness, and the thaw lake cycle. <i>Global Change Biology</i> , 2013 , 19, 2853-66	11.4	70
183	Changes in fire intensity have carry-over effects on plant responses after the next fire in southern California chaparral. <i>Journal of Vegetation Science</i> , 2013 , 24, 395-404	3.1	9
182	Aircraft Regional-Scale Flux Measurements over Complex Landscapes of Mangroves, Desert, and Marine Ecosystems of Magdalena Bay, Mexico. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 1266-1294	2	13
181	Modeling the influence of snow cover on low Arctic net ecosystem exchange. <i>Environmental Research Letters</i> , 2013 , 8, 035045	6.2	6

180	Progress and opportunities for monitoring greenhouse gases fluxes in Mexican ecosystems: the MexFlux network. <i>Atmosfera</i> , 2013 , 26, 325-336	2.5	22
179	Growing season and spatial variations of carbon fluxes of Arctic and boreal ecosystems in Alaska (USA) 2013 , 23, 1798-816		63
178	Upscaling terrestrial carbon dioxide fluxes in Alaska with satellite remote sensing and support vector regression. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1266-1281	3.7	47
177	Testing the applicability of neural networks as a gap-filling method using CH ₄ flux data from high latitude wetlands. <i>Biogeosciences</i> , 2013 , 10, 8185-8200	4.6	66
176	Air/sea exchange of CO ₂ at a Northern California coastal site along the California Current upwelling system. <i>Biogeosciences</i> , 2013 , 10, 4419-4432	4.6	17
175	Carbon dioxide exchange over multiple temporal scales in an arid shrub ecosystem near La Paz, Baja California Sur, Mexico. <i>Global Change Biology</i> , 2012 , 18, 2570-2582	11.4	25
174	Global estimation of evapotranspiration using a leaf area index-based surface energy and water balance model. <i>Remote Sensing of Environment</i> , 2012 , 124, 581-595	13.2	100
173	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012 , 194, 775-783	9.8	81
172	Increased CO ₂ loss from vegetated drained lake tundra ecosystems due to flooding. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	37
171	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		239
170	An assessment of the carbon balance of Arctic tundra: comparisons among observations, process models, and atmospheric inversions. <i>Biogeosciences</i> , 2012 , 9, 3185-3204	4.6	221
169	Water-table height and microtopography control biogeochemical cycling in an Arctic coastal tundra ecosystem. <i>Biogeosciences</i> , 2012 , 9, 577-591	4.6	70
168	Soil moisture control over autumn season methane flux, Arctic Coastal Plain of Alaska. <i>Biogeosciences</i> , 2012 , 9, 1423-1440	4.6	63
167	Endogenous circadian regulation of carbon dioxide exchange in terrestrial ecosystems. <i>Global Change Biology</i> , 2012 , 18, 1956-1970	11.4	30
166	Reduction in carbon uptake during turn of the century drought in western North America. <i>Nature Geoscience</i> , 2012 , 5, 551-556	18.3	216
165	Microtopographic controls on ecosystem functioning in the Arctic Coastal Plain. <i>Journal of Geophysical Research</i> , 2011 , 116,		75
164	Effects of Fine-Scale Topography on CO ₂ Flux Components of Alaskan Coastal Plain Tundra: Response to Contrasting Growing Seasons. <i>Arctic, Antarctic, and Alpine Research</i> , 2011 , 43, 256-266	1.8	28
163	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

162	Net ecosystem exchange, evapotranspiration and canopy conductance in a riparian forest. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 544-553	5.8	33
161	Air-sea CO ₂ exchange of beach and near-coastal waters of the Chukchi Sea near Barrow, Alaska. <i>Continental Shelf Research</i> , 2011 , 31, 1357-1364	2.4	4
160	Nonlinear controls on evapotranspiration in arctic coastal wetlands. <i>Biogeosciences</i> , 2011 , 8, 3375-3389	4.6	77
159	Light-stress avoidance mechanisms in a Sphagnum-dominated wet coastal Arctic tundra ecosystem in Alaska. <i>Ecology</i> , 2011 , 92, 633-44	4.6	32
158	Aircraft-derived regional scale CO ₂ fluxes from vegetated drained thaw-lake basins and interstitial tundra on the Arctic Coastal Plain of Alaska. <i>Global Change Biology</i> , 2011 , 17, 2781-2802	11.4	18
157	A new low-power, open-path instrument for measuring methane flux by eddy covariance. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 102, 391-405	1.9	148
156	Top-down control of microbial activity and biomass in an Arctic soil ecosystem. <i>Environmental Microbiology</i> , 2010 , 12, 642-8	5.2	32
155	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010 , 5, 034007	6.2	116
154	Cataloguing soil carbon stocks. <i>Science</i> , 2010 , 330, 1476-7	33.3	7
153	Reduction of iron (III) and humic substances plays a major role in anaerobic respiration in an Arctic peat soil. <i>Journal of Geophysical Research</i> , 2010 , 115,		89
152	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
151	Responses of CO ₂ flux components of Alaskan Coastal Plain tundra to shifts in water table. <i>Journal of Geophysical Research</i> , 2010 , 115,		41
150	Remote sensing of tundra gross ecosystem productivity and light use efficiency under varying temperature and moisture conditions. <i>Remote Sensing of Environment</i> , 2010 , 114, 481-489	13.2	68
149	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. <i>Remote Sensing of Environment</i> , 2010 , 114, 576-591	13.2	183
148	Variability in exchange of CO ₂ across 12 northern peatland and tundra sites. <i>Global Change Biology</i> , 2009 , 16, no-no	11.4	85
147	Characterization of the carbon fluxes of a vegetated drained lake basin chronosequence on the Alaskan Arctic Coastal Plain. <i>Global Change Biology</i> , 2009 , 16, 1870-1882	11.4	45
146	Carbon losses in soils previously exposed to elevated atmospheric CO ₂ in a chaparral ecosystem: Potential implications for a sustained biospheric C sink. <i>Journal of Geochemical Exploration</i> , 2009 , 102, 142-148	3.8	9
145	Satellite-based model detection of recent climate-driven changes in northern high-latitude vegetation productivity. <i>Journal of Geophysical Research</i> , 2008 , 113,		89

144	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
143	A new model of gross primary productivity for North American ecosystems based solely on the enhanced vegetation index and land surface temperature from MODIS. <i>Remote Sensing of Environment</i> , 2008 , 112, 1633-1646	13.2	302
142	Sensitivity of pan-Arctic terrestrial net primary productivity simulations to daily surface meteorology from NCEP-NCAR and ERA-40 reanalyses. <i>Journal of Geophysical Research</i> , 2007 , 112,		16
141	Mature semiarid chaparral ecosystems can be a significant sink for atmospheric carbon dioxide. <i>Global Change Biology</i> , 2007 , 13, 386-396	11.4	91
140	Satellite Microwave Remote Sensing of Boreal and Arctic Soil Temperatures From AMSR-E. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 2004-2018	8.1	53
139	Microbial activity in soils frozen to below 0°C. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 785-794	7.5	179
138	Effects of past, present and future atmospheric CO ₂ concentrations on soil organic matter dynamics in a chaparral ecosystem. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 3235-3244	7.5	16
137	Evaluation of remote sensing based terrestrial productivity from MODIS using regional tower eddy flux network observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 1908-1925	8.1	475
136	Effects of climate variability on carbon sequestration among adjacent wet sedge tundra and moist tussock tundra ecosystems. <i>Journal of Geophysical Research</i> , 2006 , 111,		72
135	Modeling evapotranspiration in Arctic coastal plain ecosystems using a modified BIOME-BGC model. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		30
134	On the use of MODIS EVI to assess gross primary productivity of North American ecosystems. <i>Journal of Geophysical Research</i> , 2006 , 111,		215
133	Parallel adjustments in vegetation greenness and ecosystem CO ₂ exchange in response to drought in a Southern California chaparral ecosystem. <i>Remote Sensing of Environment</i> , 2006 , 103, 289-303	13.2	166
132	Monitoring drought effects on vegetation water content and fluxes in chaparral with the 970nm water band index. <i>Remote Sensing of Environment</i> , 2006 , 103, 304-311	13.2	88
131	Mapping carbon and water vapor fluxes in a chaparral ecosystem using vegetation indices derived from AVIRIS. <i>Remote Sensing of Environment</i> , 2006 , 103, 312-323	13.2	45
130	Effects of elevated atmospheric CO ₂ on soil microbial biomass, activity, and diversity in a chaparral ecosystem. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8573-80	4.8	99
129	RESPONSES OF SOIL BIOTA TO ELEVATED CO ₂ IN A CHAPARRAL ECOSYSTEM 2005 , 15, 1701-1711		33
128	Site-level evaluation of satellite-based global terrestrial gross primary production and net primary production monitoring. <i>Global Change Biology</i> , 2005 , 11, 666-684	11.4	264
127	Diurnal, seasonal and annual variation in the net ecosystem CO ₂ exchange of a desert shrub community (<i>Sarcocaulis</i>) in Baja California, Mexico. <i>Global Change Biology</i> , 2005 , 11, 927-939	11.4	134

126	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. <i>Climatic Change</i> , 2005 , 72, 251-298	4.5	1074
125	Effects on the function of Arctic ecosystems in the short- and long-term perspectives. <i>Ambio</i> , 2004 , 33, 448-58	6.5	37
124	Synthesis of effects in four Arctic subregions. <i>Ambio</i> , 2004 , 33, 469-73	6.5	6
123	Past changes in Arctic terrestrial ecosystems, climate and UV radiation. <i>Ambio</i> , 2004 , 33, 398-403	6.5	9
122	Monoterpene emission responses to elevated CO ₂ in a Mediterranean-type ecosystem. <i>New Phytologist</i> , 2004 , 161, 17-21	9.8	24
121	Responses to projected changes in climate and UV-B at the species level. <i>Ambio</i> , 2004 , 33, 418-35	6.5	65
120	Rationale, concepts and approach to the assessment. <i>Ambio</i> , 2004 , 33, 393-7	6.5	5
119	Effects of changes in climate on landscape and regional processes, and feedbacks to the climate system. <i>Ambio</i> , 2004 , 33, 459-68	6.5	42
118	Direct observations of the effects of aerosol loading on net ecosystem CO ₂ exchanges over different landscapes. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	140
117	Effects on the structure of Arctic ecosystems in the short- and long-term perspectives. <i>Ambio</i> , 2004 , 33, 436-47	6.5	50
116	Biodiversity, distributions and adaptations of Arctic species in the context of environmental change. <i>Ambio</i> , 2004 , 33, 404-17	6.5	162
115	Uncertainties and recommendations. <i>Ambio</i> , 2004 , 33, 474-9	6.5	12
114	Inter-annual carbon dioxide uptake of a wet sedge tundra ecosystem in the Arctic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003 , 55, 215-231	3.3	14
113	Alteration of Soil Carbon Pools and Communities of Mycorrhizal Fungi in Chaparral Exposed to Elevated Carbon Dioxide. <i>Ecosystems</i> , 2003 , 6, 786-796	3.9	48
112	Modelling carbon balances of coastal arctic tundra under changing climate. <i>Global Change Biology</i> , 2003 , 9, 16-36	11.4	34
111	Spatial variation in regional CO ₂ exchange for the Kuparuk River Basin, Alaska over the summer growing season. <i>Global Change Biology</i> , 2003 , 9, 930-941	11.4	27
110	Widespread foliage $\delta^{15}N$ depletion under elevated CO ₂ : inferences for the nitrogen cycle. <i>Global Change Biology</i> , 2003 , 9, 1582-1590	11.4	47
109	Modeling temporal and large-scale spatial variability of soil respiration from soil water availability, temperature and vegetation productivity indices. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	43 ¹

108	Net CO ₂ Budget and Seasonal Variation of CO ₂ Fluxes at a Wet Sedge Tundra Ecosystem at Barrow, Alaska during the 2000 Growing Season. <i>J Agricultural Meteorology</i> , 2003 , 59, 141-154	1.1	6
107	Seasonal patterns of reflectance indices, carotenoid pigments and photosynthesis of evergreen chaparral species. <i>Oecologia</i> , 2002 , 131, 366-374	2.9	237
106	PRIESTLEY-TAYLOR ALPHA COEFFICIENT: VARIABILITY AND RELATIONSHIP TO NDVI IN ARCTIC TUNDRA LANDSCAPES1. <i>Journal of the American Water Resources Association</i> , 2002 , 38, 1647-1659	2.1	9
105	Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. <i>Water Resources Research</i> , 2002 , 38, 30-1-30-11	5.4	139
104	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	540
103	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
102	Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. <i>Agricultural and Forest Meteorology</i> , 2002 , 113, 97-120	5.8	965
101	Energy balance closure at FLUXNET sites. <i>Agricultural and Forest Meteorology</i> , 2002 , 113, 223-243	5.8	1633
100	FLUXNET: A New Tool to Study the Temporal and Spatial Variability of Ecosystem Scale Carbon Dioxide, Water Vapor, and Energy Flux Densities. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 2415-2434	6.1	2615
99	Spatial and temporal variations in hectare-scale net CO ₂ flux, respiration and gross primary production of Arctic tundra ecosystems. <i>Functional Ecology</i> , 2000 , 14, 203-214	5.6	36
98	A scaling approach for quantifying the net CO flux of the Kuparuk River Basin, Alaska.. <i>Global Change Biology</i> , 2000 , 6, 160-173	11.4	60
97	Effects of lifelong [CO ₂] enrichment on carboxylation and light utilization of <i>Quercus pubescens</i> Willd. examined with gas exchange, biochemistry and optical techniques. <i>Plant, Cell and Environment</i> , 2000 , 23, 1353-1362	8.4	64
96	Acclimation of ecosystem CO ₂ exchange in the Alaskan Arctic in response to decadal climate warming. <i>Nature</i> , 2000 , 406, 978-81	50.4	492
95	Observational Evidence of Recent Change in the Northern High-Latitude Environment. <i>Climatic Change</i> , 2000 , 46, 159-207	4.5	1452
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