

# Alexander Knohl

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6039994/alexander-knohl-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

154  
papers

14,264  
citations

50  
h-index

119  
g-index

195  
ext. papers

16,479  
ext. citations

7.2  
avg. IF

5.62  
L-index

#	Paper	IF	Citations
154	Europe-wide reduction in primary productivity caused by the heat and drought in 2003. <i>Nature</i> , <b>2005</b> , 437, 529-33	50.4	2643
153	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , <b>2005</b> , 11, 1424-1439	11.4	2253
152	Old-growth forests as global carbon sinks. <i>Nature</i> , <b>2008</b> , 455, 213-5	50.4	1110
151	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. <i>Agricultural and Forest Meteorology</i> , <b>2007</b> , 143, 123-145	5.8	427
150	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , <b>2007</b> , 13, 634-651	11.4	423
149	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 171-172, 137-152	5.8	342
148	Land management and land-cover change have impacts of similar magnitude on surface temperature. <i>Nature Climate Change</i> , <b>2014</b> , 4, 389-393	21.4	304
147	Temporal and among-site variability of inherent water use efficiency at the ecosystem level. <i>Global Biogeochemical Cycles</i> , <b>2009</b> , 23, n/a-n/a	5.9	304
146	Why are non-photosynthetic tissues generally C enriched compared with leaves in C plants? Review and synthesis of current hypotheses. <i>Functional Plant Biology</i> , <b>2009</b> , 36, 199-213	2.7	304
145	Productivity of forests in the Eurosiberian boreal region and their potential to act as a carbon sink. <i>Global Change Biology</i> , <b>1999</b> , 5, 703-722	11.4	304
144	Large carbon uptake by an unmanaged 250-year-old deciduous forest in Central Germany. <i>Agricultural and Forest Meteorology</i> , <b>2003</b> , 118, 151-167	5.8	263
143	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , <b>2020</b> , 7, 225	8.2	256
142	Integration of MODIS land and atmosphere products with a coupled-process model to estimate gross primary productivity and evapotranspiration from 1 km to global scales. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a	5.9	251
141	Carbon allocation and carbon isotope fluxes in the plant-soil-atmosphere continuum: a review. <i>Biogeosciences</i> , <b>2011</b> , 8, 3457-3489	4.6	229
140	Determinants of terrestrial ecosystem carbon balance inferred from European eddy covariance flux sites. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	195
139	Quality control of CarboEurope flux data [Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. <i>Biogeosciences</i> , <b>2008</b> , 5, 433-450	4.6	164
138	Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. <i>Theoretical and Applied Climatology</i> , <b>2005</b> , 80, 121-141	3	153

137	Effects of diffuse radiation on canopy gas exchange processes in a forest ecosystem. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		148
136	Predicting the onset of net carbon uptake by deciduous forests with soil temperature and climate data: a synthesis of FLUXNET data. <i>International Journal of Biometeorology</i> , <b>2005</b> , 49, 377-87	3.7	148
135	A review of the ecosystem functions in oil palm plantations, using forests as a reference system. <i>Biological Reviews</i> , <b>2017</b> , 92, 1539-1569	13.5	145
134	Ecological and socio-economic functions across tropical land use systems after rainforest conversion. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371,	5.8	143
133	Short-term variations in delta(13)C of ecosystem respiration reveals link between assimilation and respiration in a deciduous forest. <i>Oecologia</i> , <b>2005</b> , 142, 70-82	2.9	127
132	Forest and agricultural land-use-dependent CO2 exchange in Thuringia, Germany. <i>Global Change Biology</i> , <b>2004</b> , 10, 2005-2019	11.4	126
131	Inter-annual and seasonal variability of radial growth, wood density and carbon isotope ratios in tree rings of beech ( <i>Fagus sylvatica</i> ) growing in Germany and Italy. <i>Trees - Structure and Function</i> , <b>2006</b> , 20, 571-586	2.6	124
130	Land-use choices follow profitability at the expense of ecological functions in Indonesian smallholder landscapes. <i>Nature Communications</i> , <b>2016</b> , 7, 13137	17.4	116
129	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 034007	6.2	116
128	The influence of climate and fructification on the inter-annual variability of stem growth and net primary productivity in an old-growth, mixed beech forest. <i>Tree Physiology</i> , <b>2010</b> , 30, 689-704	4.2	103
127	Carbon dioxide exchange of a Russian boreal forest after disturbance by wind throw. <i>Global Change Biology</i> , <b>2002</b> , 8, 231-246	11.4	96
126	Measuring variations of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in atmospheric water vapour using two commercial laser-based spectrometers: an instrument characterisation study. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 1491-1511	4	91
125	Short-term changes in carbon isotope composition of soluble carbohydrates and starch: from canopy leaves to the root system. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 653-60	2.2	85
124	Water vapor $\delta^2\text{H}$ and $\delta^{18}\text{O}$ measurements using off-axis integrated cavity output spectroscopy. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 67-77	4	80
123	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> , <b>2018</b> , 15, 1293-1318	4.6	79
122	Impact of forest conversion to oil palm and rubber plantations on microclimate and the role of the 2015 ENSO event. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 252, 208-219	5.8	77
121	Direct and cascading impacts of tropical land-use change on multi-trophic biodiversity. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1511-1519	12.3	77
120	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , <b>2015</b> , 12, 5995-6015	4.6	77

119	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. <i>Global Change Biology</i> , <b>2007</b> , 13, 734-760	11.4	74
118	Carbon costs and benefits of Indonesian rainforest conversion to plantations. <i>Nature Communications</i> , <b>2018</b> , 9, 2388	17.4	73
117	Intra-annual variability of anatomical structure and delta(13)C values within tree rings of spruce and pine in alpine, temperate and boreal Europe. <i>Oecologia</i> , <b>2009</b> , 161, 729-45	2.9	70
116	Remote sensing of photosynthetic-light-use efficiency of a Siberian boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 677-687	3.3	69
115	Representative estimates of soil and ecosystem respiration in an old beech forest. <i>Plant and Soil</i> , <b>2008</b> , 302, 189-202	4.2	64
114	Environmental variables controlling soil respiration on diurnal, seasonal and annual time-scales in a mixed mountain forest in Switzerland. <i>Biogeochemistry</i> , <b>2010</b> , 98, 153-170	3.8	62
113	Estimations of total ecosystem carbon pools distribution and carbon biomass current annual increment of a moist tropical forest. <i>Forest Ecology and Management</i> , <b>2011</b> , 261, 1448-1459	3.9	61
112	The diel imprint of leaf metabolism on the $\delta^{13}C$ signal of soil respiration under control and drought conditions. <i>New Phytologist</i> , <b>2011</b> , 192, 925-938	9.8	61
111	Advection and resulting CO <sub>2</sub> exchange uncertainty in a tall forest in central Germany <b>2008</b> , 18, 1391-405		61
110	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 48	12.3	60
109	Eddy covariance measurements of CO <sub>2</sub> isotopologues with a quantum cascade laser absorption spectrometer. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 152, 73-82	5.8	56
108	Partitioning the net CO <sub>2</sub> flux of a deciduous forest into respiration and assimilation using stable carbon isotopes. <i>Global Biogeochemical Cycles</i> , <b>2005</b> , 19, n/a-n/a	5.9	54
107	Pan-European $\delta^{13}C$ values of air and organic matter from forest ecosystems. <i>Global Change Biology</i> , <b>2005</b> , 11, 1065-1093	11.4	54
106	Water scarcity and oil palm expansion: social views and environmental processes. <i>Ecology and Society</i> , <b>2016</b> , 21,	4.1	54
105	Trade-offs between multifunctionality and profit in tropical smallholder landscapes. <i>Nature Communications</i> , <b>2020</b> , 11, 1186	17.4	52
104	Remotely-sensed detection of effects of extreme droughts on gross primary production. <i>Scientific Reports</i> , <b>2016</b> , 6, 28269	4.9	48
103	Effects of canopy photosynthesis saturation on the estimation of gross primary productivity from MODIS data in a tropical forest. <i>Remote Sensing of Environment</i> , <b>2012</b> , 121, 252-260	13.2	47
102	Climate and soils together regulate photosynthetic carbon isotope discrimination within C <sub>3</sub> plants worldwide. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1056-1067	6.1	45

101	Atmospheric deposition, CO, and change in the land carbon sink. <i>Scientific Reports</i> , <b>2017</b> , 7, 9632	4.9	41
100	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 124018	6.2	41
99	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 552-567	3.3	38
98	Expansion of oil palm and other cash crops causes an increase of the land surface temperature in the Jambi province in Indonesia. <i>Biogeosciences</i> , <b>2017</b> , 14, 4619-4635	4.6	36
97	Evaluating the performance of land surface model ORCHIDEE-CANv1.0 on water and energy flux estimation with a single- and multi-layer energy budget scheme. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 2951-2972	6.3	36
96	Controls of water and energy fluxes in oil palm plantations: Environmental variables and oil palm age. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 239, 71-85	5.8	35
95	The impact of extreme summer drought on the short-term carbon coupling of photosynthesis to soil CO <sub>2</sub> efflux in a temperate grassland. <i>Biogeosciences</i> , <b>2014</b> , 11, 961-975	4.6	35
94	Controls on winter ecosystem respiration in temperate and boreal ecosystems. <i>Biogeosciences</i> , <b>2011</b> , 8, 2009-2025	4.6	35
93	Application of a quantum cascade laser-based spectrometer in a closed chamber system for real-time <sup>13</sup> C and <sup>18</sup> O measurements of soil-respired CO <sub>2</sub> . <i>Agricultural and Forest Meteorology</i> , <b>2011</b> , 151, 39-48	5.8	34
92	Kel-F discs improve storage time of canopy air samples in 10-mL vials for CO <sub>2</sub> -delta <sup>13</sup> C analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 1663-5	2.2	33
91	Vegetation-specific model parameters are not required for estimating gross primary production. <i>Ecological Modelling</i> , <b>2014</b> , 292, 1-10	3	32
90	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		32
89	Annual ecosystem respiration budget for a <i>Pinus sylvestris</i> stand in central Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 568-589	3.3	32
88	Transpiration in an oil palm landscape: effects of palm age. <i>Biogeosciences</i> , <b>2015</b> , 12, 5619-5633	4.6	31
87	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , <b>2020</b> , 26, 6916-6930	11.4	31
86	Ecohydrological changes after tropical forest conversion to oil palm. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 064035	6.2	31
85	Measured greenhouse gas budgets challenge emission savings from palm-oil biodiesel. <i>Nature Communications</i> , <b>2020</b> , 11, 1089	17.4	30
84	Differences in carbon uptake and water use between a managed and an unmanaged beech forest in central Germany. <i>Forest Ecology and Management</i> , <b>2015</b> , 355, 101-108	3.9	30

83	Remote sensing of photosynthetic-light-use efficiency of a Siberian boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 677-687	3.3	30
82	A sub-canopy structure for simulating oil palm in the Community Land Model (CLM-Palm): phenology, allocation and yield. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 3785-3800	6.3	28
81	Validation of 3D-CMCC Forest Ecosystem Model (v.5.1) against eddy covariance data for 10 European forest sites. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 479-504	6.3	25
80	Strong radiative effect induced by clouds and smoke on forest net ecosystem productivity in central Siberia. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 250-251, 376-387	5.8	24
79	Sensitivity of gross primary productivity to climatic drivers during the summer drought of 2018 in Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190747	5.8	23
78	Forest summer albedo is sensitive to species and thinning: how should we account for this in Earth system models?. <i>Biogeosciences</i> , <b>2014</b> , 11, 2411-2427	4.6	22
77	Influence of nutrient availability, stand age, and canopy structure on isoprene flux in a Eucalyptus saligna experimental forest. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		22
76	Global change: indirect feedbacks to rising CO <sub>2</sub> . <i>Nature</i> , <b>2011</b> , 475, 177-8	50.4	20
75	Use of remotely sensed land use classification for a better evaluation of micrometeorological flux measurement sites. <i>Theoretical and Applied Climatology</i> , <b>2006</b> , 84, 219-233	3	20
74	Annual ecosystem respiration budget for a Pinus sylvestris stand in central Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 568-589	3.3	20
73	The Water Isotopic Version of the Land-Surface Model ORCHIDEE: Implementation, Evaluation, Sensitivity to Hydrological Parameters. <i>Hydrology Current Research</i> , <b>2016</b> , 07,		20
72	Sources and abundances of leaf waxes in aerosols in central Europe. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 198, 299-314	5.5	19
71	Memory effects of climate and vegetation affecting net ecosystem CO <sub>2</sub> fluxes in global forests. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211510	3.7	18
70	It is not just a trade-off: indications for sink- and source-limitation to vegetative and regenerative growth in an old-growth beech forest. <i>New Phytologist</i> , <b>2020</b> , 226, 111-125	9.8	18
69	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190524	5.8	18
68	Transpiration on the rebound in lowland Sumatra. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 274, 160-175	18	17
67	Understanding the Stable Isotope Composition of Biosphere-Atmosphere CO <sub>2</sub> Exchange. <i>Eos</i> , <b>2008</b> , 89, 94	1.5	15
66	Carbon allocation and carbon isotope fluxes in the plant-soil-atmosphere continuum: a review		15

65	Temperate and Boreal Old-Growth Forests: How do Their Growth Dynamics and Biodiversity Differ from Young Stands and Managed Forests?. <i>Ecological Studies</i> , <b>2009</b> , 343-366	1.1	15
64	Reconciling Canopy Interception Parameterization and Rainfall Forcing Frequency in the Community Land Model for Simulating Evapotranspiration of Rainforests and Oil Palm Plantations in Indonesia. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 732-751	7.1	12
63	Allometric relationships of stand level carbon stocks to basal area, tree height and wood density of nine tree species in Bangladesh. <i>Global Ecology and Conservation</i> , <b>2020</b> , 22, e01025	2.8	12
62	A new instrument for stable isotope measurements of $^{13}\text{C}$ and $^{18}\text{O}$ in $\text{CO}_2$ : Instrument performance and ecological application of the Delta Ray IRIS analyzer. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 4537-4560	4	12
61	Interpreting canopy development and physiology using the EUROPhen camera network at flux sites		12
60	Carbon isotope discrimination during branch photosynthesis of <i>Fagus sylvatica</i> : a Bayesian modelling approach. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1516-35	8.4	10
59	Response of $\text{CO}_2$ and $\text{H}_2\text{O}$ fluxes in a mountainous tropical rainforest in equatorial Indonesia to El Niño events. <i>Biogeosciences</i> , <b>2015</b> , 12, 6655-6667	4.6	10
58	El Niño Southern Oscillation (ENSO) event reduces $\text{CO}_2$ uptake of an Indonesian oil palm plantation. <i>Biogeosciences</i> , <b>2019</b> , 16, 2873-2890	4.6	9
57	Soil matrix tracer contamination and canopy recycling did not impair $^{13}\text{CO}_2$ plant-soil pulse labelling experiments. <i>Isotopes in Environmental and Health Studies</i> , <b>2011</b> , 47, 359-71	1.5	9
56	Global maps of soil temperature.. <i>Global Change Biology</i> , <b>2021</b> ,	11.4	8
55	Quality control of CarboEurope flux data [Part I: Footprint analyses to evaluate sites in forest ecosystems		8
54	Flooding and land use change in Jambi Province, Sumatra: integrating local knowledge and scientific inquiry. <i>Ecology and Society</i> , <b>2020</b> , 25,	4.1	8
53	The three major axes of terrestrial ecosystem function. <i>Nature</i> , <b>2021</b> , 598, 468-472	50.4	8
52	Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. <i>Biogeosciences</i> , <b>2021</b> , 18, 621-635	4.6	8
51	The pantropical response of soil moisture to El Niño. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 2303-2322	3.3	7
50	Validation of Space-Based Albedo Products from Upscaled Tower-Based Measurements Over Heterogeneous and Homogeneous Landscapes. <i>Remote Sensing</i> , <b>2020</b> , 12, 833	5	7
49	Relative contribution of evapotranspiration and soil compaction to the fluctuation of catchment discharge: case study from a plantation landscape. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1239-1248	3.5	7
48	The effect of physical back-diffusion of $^{13}\text{CO}_2$ tracer on the coupling between photosynthesis and soil $\text{CO}_2$ efflux in grassland. <i>Isotopes in Environmental and Health Studies</i> , <b>2014</b> , 50, 497-513	1.5	7

47	Water supply patterns over Germany under climate change conditions. <i>Biogeosciences</i> , <b>2013</b> , 10, 2959-2972	7	7
46	Conditional CO <sub>2</sub> flux analysis of a managed grassland with the aid of stable isotopes		7
45	Oil palm plantations are large sources of nitrous oxide, but where are the data to quantify the impact on global warming?. <i>Current Opinion in Environmental Sustainability</i> , <b>2020</b> , 47, 81-88	7.2	7
44	Implications of structural diversity for seasonal and annual carbon dioxide fluxes in two temperate deciduous forests. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 263, 465-476	5.8	7
43	Eddy covariance measurements of the dual-isotope composition of evapotranspiration. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 269-270, 203-219	5.8	6
42	Testing the applicability of BIOME-BGC to simulate beech gross primary production in Europe using a new continental weather dataset. <i>Annals of Forest Science</i> , <b>2016</b> , 73, 713-727	3.1	6
41	Allometric relationships of frequently used shade tree species in cacao agroforestry systems in Sulawesi, Indonesia. <i>Agroforestry Systems</i> , <b>2013</b> , 87, 857-870	2	6
40	Carbon isotope discrimination during branch photosynthesis of <i>Fagus sylvatica</i> : field measurements using laser spectrometry. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 1481-96	7	6
39	Water vapor <sup>2</sup> H and <sup>18</sup> O measurements using off-axis integrated cavity output spectroscopy		6
38	Winter respiratory C losses provide explanatory power for net ecosystem productivity. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 243-260	3.7	5
37	Hydrologic control of the oxygen isotope ratio of ecosystem respiration in a semi-arid woodland. <i>Biogeosciences</i> , <b>2013</b> , 10, 4937-4956	4.6	5
36	Uncovering the critical soil moisture thresholds of plant water stress for European ecosystems.. <i>Global Change Biology</i> , <b>2021</b> ,	11.4	5
35	Soil H <sub>2</sub> O labelling reveals the effect of drought on C <sub>18</sub> O fluxes to the atmosphere. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 5783-93	7	4
34	Biosphere-Atmosphere Exchange of Old-Growth Forests: Processes and Pattern. <i>Ecological Studies</i> , <b>2009</b> , 141-158	1.1	4
33	The impact of extreme summer drought on the short-term carbon coupling of photosynthesis to soil CO <sub>2</sub> efflux in a temperate grassland		4
32	Technical Note: A combined soil/canopy chamber system for tracing <sup>13</sup> C in soil respiration after a <sup>13</sup> CO <sub>2</sub> canopy pulse labelling		4
31	Selected breakpoints of net forest carbon uptake at four eddy-covariance sites. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2021</b> , 73, 1-12	3.3	4
30	Water sources of plant uptake along a salt marsh flooding gradient. <i>Oecologia</i> , <b>2018</b> , 188, 607-622	2.9	3



29	Preface &quot;Stable Isotopes and Biogeochemical Cycles in Terrestrial Ecosystems&quot; <i>Biogeosciences</i> , <b>2012</b> , 9, 3979-3981	4.6	3
28	Measuring variations of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in atmospheric water vapour using laser spectroscopy: an instrument characterisation study <b>2012</b> ,		3
27	Effects Of The 2015/2016 El Niño Event On Energy And CO <sub>2</sub> Fluxes Of A Tropical Rainforest In Central Sulawesi, Indonesia. <i>Geography, Environment, Sustainability</i> , <b>2019</b> , 12, 183-196	1	3
26	Expansion of oil palm and other cash crops causes an increase of land surface temperature in Indonesia		3
25	Impacts of droughts and extreme temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones		3
24	Predicting evapotranspiration from drone-based thermography: a method comparison in a tropical oil palm plantation		3
23	Transpiration in an oil palm landscape: effects of palm age		3
22	Reply to: Old-growth forest carbon sinks overestimated. <i>Nature</i> , <b>2021</b> , 591, E24-E25	50.4	3
21	The effect of physical back-diffusion of <sup>13</sup> CO <sub>2</sub> tracer on the coupling between photosynthesis and soil CO <sub>2</sub> efflux in grassland. <i>Isotopes in Environmental and Health Studies</i> , <b>2014</b> , 50, 514-515	1.5	2
20	Using Airborne Laser Scanning to Characterize Land-Use Systems in a Tropical Landscape Based on Vegetation Structural Metrics. <i>Remote Sensing</i> , <b>2021</b> , 13, 4794	5	2
19	Evapotranspiration over agroforestry sites in Germany. <i>Biogeosciences</i> , <b>2020</b> , 17, 5183-5208	4.6	2
18	Are vegetation-specific model parameters required for estimating gross primary production?		2
17	The influence of surface roughness and turbulence on heat fluxes from an oil palm plantation in Jambi, Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 149, 012048	0.3	2
16	Method comparison of indirect assessments of understory leaf area index (LAI <sub>u</sub> ): A case study across the extended network of ICOS forest ecosystem sites in Europe. <i>Ecological Indicators</i> , <b>2021</b> , 128, 107841	5.8	2
15	Summertime canopy albedo is sensitive to forest thinning		1
14	Response of CO <sub>2</sub> and H <sub>2</sub> O fluxes of a mountainous tropical rain forest in equatorial Indonesia to El Niño events		1
13	Using a Bottom-Up Approach to Scale Leaf Photosynthetic Traits of Oil Palm, Rubber, and Two Coexisting Tropical Woody Species. <i>Forests</i> , <b>2021</b> , 12, 359	2.8	1
12	Temperature Control of Spring CO <sub>2</sub> Fluxes at a Coniferous Forest and a Peat Bog in Central Siberia. <i>Atmosphere</i> , <b>2021</b> , 12, 984	2.7	1

11	Predicting evapotranspiration from drone-based thermography  method comparison in a tropical oil palm plantation. <i>Biogeosciences</i> , <b>2021</b> , 18, 861-872	4.6	1
10	Observation-based implementation of ecophysiological processes for a rubber plant functional type in the community land model (CLM4.5-rubber_v1) <b>2018</b> ,		1
9	Solar dimming above temperate forests and its impact on local climate. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 064014	6.2	1
8	Implementing a New Rubber Plant Functional Type in the Community Land Model (CLM5) Improves Accuracy of Carbon and Water Flux Estimation. <i>Land</i> , <b>2022</b> , 11, 183	3.5	0
7	Microclimate and land surface temperature in a biodiversity enriched oil palm plantation. <i>Forest Ecology and Management</i> , <b>2021</b> , 497, 119480	3.9	0
6	Variations of the Oxidative Ratio across Ecosystem Components and Seasons in a Managed Temperate Beech Forest (Leinefelde, Germany). <i>Forests</i> , <b>2021</b> , 12, 1693	2.8	0
5	Stable Isotopes as Indicators, Tracers, and Recorders of Ecological Change: Synthesis and Outlook. <i>Journal of Nano Education (Print)</i> , <b>2007</b> , 1, 399-405		
4	Dataset on microclimate and drone-based thermal patterns within an oil palm agroforestry system. <i>Data in Brief</i> , <b>2021</b> , 39, 107615	1.2	
3	Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. <i>Global Change Biology</i> , <b>2007</b> , 070621084512032-???	11.4	
2	Quantification Of Leaf Emissivities Of Forest Species: Effects On Modelled Energy And Matter Fluxes In Forest Ecosystems. <i>Geography, Environment, Sustainability</i> , <b>2019</b> , 12, 245-258	1	
1	Dynamics of the Standardized Precipitation Evapotranspiration Index (SPEI) of an oil palm plantation area in Jambi province, Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 187, 012065	0.3	