

Alessandro Cescatti

List of Publications by Year in descending order

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Version: 2024-02-01

151
papers

20,064
citations

16411

64
h-index

11288

136
g-index

190
all docs

190
docs citations

190
times ranked

18555
citing authors

#	ARTICLE	IF	CITATIONS
1	Terrestrial Gross Carbon Dioxide Uptake: Global Distribution and Covariation with Climate. <i>Science</i> , 2010, 329, 834-838.	6.0	2,056
2	Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , 2010, 467, 951-954.	13.7	1,771
3	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	933
4	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.	3.3	741
5	Global covariation of carbon turnover times with climate in terrestrial ecosystems. <i>Nature</i> , 2014, 514, 213-217.	13.7	648
6	Biophysical climate impacts of recent changes in global forest cover. <i>Science</i> , 2016, 351, 600-604.	6.0	545
7	Predicting carbon dioxide and energy fluxes across global FLUXNET sites with regression algorithms. <i>Biogeosciences</i> , 2016, 13, 4291-4313.	1.3	447
8	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. <i>Science</i> , 2010, 329, 838-840.	6.0	446
9	A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 137-152.	1.9	424
10	Reconciling the temperature dependence of respiration across timescales and ecosystem types. <i>Nature</i> , 2012, 487, 472-476.	13.7	369
11	The mark of vegetation change on Earth's surface energy balance. <i>Nature Communications</i> , 2018, 9, 679.	5.8	325
12	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020, 370, 1295-1300.	6.0	317
13	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019, 3, 772-779.	3.4	316
14	Partitioning European grassland net ecosystem CO ₂ exchange into gross primary productivity and ecosystem respiration using light response function analysis. <i>Agriculture, Ecosystems and Environment</i> , 2007, 121, 93-120.	2.5	305
15	Satellites reveal contrasting responses of regional climate to the widespread greening of Earth. <i>Science</i> , 2017, 356, 1180-1184.	6.0	266
16	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2788-2793.	3.3	265
17	Carbon accumulation in European forests. <i>Nature Geoscience</i> , 2008, 1, 425-429.	5.4	263
18	Intercomparison of MODIS albedo retrievals and in situ measurements across the global FLUXNET network. <i>Remote Sensing of Environment</i> , 2012, 121, 323-334.	4.6	259

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19	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020, 6, eaax0255.	4.7	258
20	Leaf internal diffusion conductance limits photosynthesis more strongly in older leaves of Mediterranean evergreen broad-leaved species. <i>Plant, Cell and Environment</i> , 2005, 28, 1552-1566.	2.8	245
21	Local temperature response to land cover and management change driven by non-radiative processes. <i>Nature Climate Change</i> , 2017, 7, 296-302.	8.1	231
22	Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the LaThuile database. <i>Agricultural and Forest Meteorology</i> , 2014, 192-193, 108-120.	1.9	220
23	Abrupt increase in harvested forest area over Europe after 2015. <i>Nature</i> , 2020, 583, 72-77.	13.7	198
24	Using digital repeat photography and eddy covariance data to model grassland phenology and photosynthetic CO ₂ uptake. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1325-1337.	1.9	197
25	Increasing risk over time of weather-related hazards to the European population: a data-driven prognostic study. <i>Lancet Planetary Health</i> , The, 2017, 1, e200-e208.	5.1	192
26	Modelling the radiative transfer in discontinuous canopies of asymmetric crowns. I. Model structure and algorithms. <i>Ecological Modelling</i> , 1997, 101, 263-274.	1.2	181
27	Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. <i>Theoretical and Applied Climatology</i> , 2005, 80, 121-141.	1.3	173
28	Main determinants of forest soil respiration along an elevation/temperature gradient in the Italian Alps. <i>Global Change Biology</i> , 2005, 11, 1024-1041.	4.2	172
29	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, 4594-4599.	3.3	171
30	Estimations of isoprenoid emission capacity from enclosure studies: measurements, data processing, quality and standardized measurement protocols. <i>Biogeosciences</i> , 2011, 8, 2209-2246.	1.3	166
31	Terrestrial gross primary production inferred from satellite fluorescence and vegetation models. <i>Global Change Biology</i> , 2014, 20, 3103-3121.	4.2	161
32	Comparing CO ₂ Storage and Advection Conditions at Night at Different Carbon Flux Sites. <i>Boundary-Layer Meteorology</i> , 2005, 116, 63-93.	1.2	160
33	A unified vegetation index for quantifying the terrestrial biosphere. <i>Science Advances</i> , 2021, 7, .	4.7	160
34	On the uncertainty of phenological responses to climate change, and implications for a terrestrial biosphere model. <i>Biogeosciences</i> , 2012, 9, 2063-2083.	1.3	154
35	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020, 10, 356-362.	8.1	152
36	Complex adjustments of photosynthetic potentials and internal diffusion conductance to current and previous light availabilities and leaf age in Mediterranean evergreen species <i>Quercus ilex</i> . <i>Plant, Cell and Environment</i> , 2006, 29, 1159-1178.	2.8	151

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37	Emergent vulnerability to climate-driven disturbances in European forests. <i>Nature Communications</i> , 2021, 12, 1081.	5.8	139
38	Estimation of leaf area index in open-canopy ponderosa pine forests at different successional stages and management regimes in Oregon. <i>Agricultural and Forest Meteorology</i> , 2001, 108, 1-14.	1.9	138
39	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.	1.3	137
40	Emerging signals of declining forest resilience under climate change. <i>Nature</i> , 2022, 608, 534-539.	13.7	132
41	Canopy spectral invariants for remote sensing and model applications. <i>Remote Sensing of Environment</i> , 2007, 106, 106-122.	4.6	129
42	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011, 17, 390-409.	4.2	128
43	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO ₂ Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , 2008, 11, 1338-1351.	1.6	122
44	Major diffusion leaks of clamp on leaf cuvettes still unaccounted: how erroneous are the estimates of Farquhar <i>i>et al</i> . model parameters?. <i>Plant, Cell and Environment</i> , 2007, 30, 1006-1022.	2.8	119
45	Satellite retrievals of leaf chlorophyll and photosynthetic capacity for improved modeling of GPP. <i>Agricultural and Forest Meteorology</i> , 2013, 177, 10-23.	1.9	117
46	High resolution field spectroscopy measurements for estimating gross ecosystem production in a rice field. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 1283-1296.	1.9	116
47	Joint leaf chlorophyll content and leaf area index retrieval from Landsat data using a regularized model inversion system (REGFLEC). <i>Remote Sensing of Environment</i> , 2015, 159, 203-221.	4.6	114
48	Climatic controls and ecosystem responses drive the inter-annual variability of the net ecosystem exchange of an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1233-1243.	1.9	113
49	A quantitative analysis of the interactions between climatic response and intraspecific competition in European beech. <i>Canadian Journal of Forest Research</i> , 1997, 27, 277-284.	0.8	112
50	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	3.5	111
51	Spatially downscaling sun-induced chlorophyll fluorescence leads to an improved temporal correlation with gross primary productivity. <i>Remote Sensing of Environment</i> , 2016, 182, 72-89.	4.6	109
52	Reconciling global-model estimates and country reporting of anthropogenic forest CO ₂ sinks. <i>Nature Climate Change</i> , 2018, 8, 914-920.	8.1	101
53	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	13.7	99
54	Urban~rural gradients reveal joint control of elevated CO ₂ and temperature on extended photosynthetic seasons. <i>Nature Ecology and Evolution</i> , 2019, 3, 1076-1085.	3.4	98

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55	What does optimization theory actually predict about crown profiles of photosynthetic capacity when models incorporate greater realism?. <i>Plant, Cell and Environment</i> , 2013, 36, 1547-1563.	2.8	89
56	Importance of advection in the atmospheric CO ₂ exchanges of an alpine forest. <i>Agricultural and Forest Meteorology</i> , 2005, 130, 193-206.	1.9	85
57	Footprints and Fetches for Fluxes over Forest Canopies with Varying Structure and Density. <i>Boundary-Layer Meteorology</i> , 2003, 106, 437-459.	1.2	80
58	Seasonal trends and environmental controls of methane emissions in a rice paddy field in Northern Italy. <i>Biogeosciences</i> , 2011, 8, 3809-3821.	1.3	80
59	Silvicultural alternatives, competition regime and sensitivity to climate in a European beech forest. <i>Forest Ecology and Management</i> , 1998, 102, 213-223.	1.4	77
60	Spatial variability and optimal sampling strategy of soil respiration. <i>Forest Ecology and Management</i> , 2008, 255, 106-112.	1.4	77
61	Leaf to Landscape. <i>Ecological Studies</i> , 2004, , 42-85.	0.4	76
62	Canopy Architecture and Turbulence Structure in a Coniferous Forest. <i>Boundary-Layer Meteorology</i> , 2003, 108, 39-59.	1.2	75
63	Indirect estimates of canopy gap fraction based on the linear conversion of hemispherical photographs. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 1-12.	1.9	72
64	Structural acclimation and radiation regime of silver fir (<i>Abies alba</i> Mill.) shoots along a light gradient. <i>Plant, Cell and Environment</i> , 2003, 26, 429-442.	2.8	67
65	Quantifying the effect of forest age in annual net forest carbon balance. <i>Environmental Research Letters</i> , 2018, 13, 124018.	2.2	67
66	Effect of spatial sampling from European flux towers for estimating carbon and water fluxes with artificial neural networks. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1941-1957.	1.3	65
67	Local biophysical effects of land use and land cover change: towards an assessment tool for policy makers. <i>Land Use Policy</i> , 2020, 91, 104382.	2.5	64
68	Early response of <i>Pinus sylvestris</i> and <i>Picea abies</i> seedlings to an experimental canopy gap in a boreal spruce forest. <i>Forest Ecology and Management</i> , 2003, 176, 321-336.	1.4	63
69	Drag coefficient and turbulence intensity in conifer canopies. <i>Agricultural and Forest Meteorology</i> , 2004, 121, 197-206.	1.9	62
70	Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile data set. <i>Biogeosciences</i> , 2014, 11, 2185-2200.	1.3	62
71	Buoyancy and The Sensible Heat Flux Budget Within Dense Canopies. <i>Boundary-Layer Meteorology</i> , 2006, 118, 217-240.	1.2	61
72	Satellite Observations of the Contrasting Response of Trees and Grasses to Variations in Water Availability. <i>Geophysical Research Letters</i> , 2019, 46, 1429-1440.	1.5	61

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73	Critical adjustment of land mitigation pathways for assessing countries' climate progress. <i>Nature Climate Change</i> , 2021, 11, 425-434.	8.1	61
74	Pan-European $\delta^{13}C$ values of air and organic matter from forest ecosystems. <i>Global Change Biology</i> , 2005, 11, 1065-1093.	4.2	60
75	Modelling the radiative transfer in discontinuous canopies of asymmetric crowns. II. Model testing and application in a Norway spruce stand. <i>Ecological Modelling</i> , 1997, 101, 275-284.	1.2	59
76	Components, drivers and temporal dynamics of ecosystem respiration in a Mediterranean pine forest. <i>Soil Biology and Biochemistry</i> , 2015, 88, 224-235.	4.2	58
77	Water management reduces greenhouse gas emissions in a Mediterranean rice paddy field. <i>Agriculture, Ecosystems and Environment</i> , 2017, 238, 168-178.	2.5	57
78	Forest production efficiency increases with growth temperature. <i>Nature Communications</i> , 2020, 11, 5322.	5.8	57
79	Thinning Can Reduce Losses in Carbon Use Efficiency and Carbon Stocks in Managed Forests Under Warmer Climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2427-2452.	1.3	56
80	Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. <i>Global Change Biology</i> , 2015, 21, 363-376.	4.2	52
81	A spatially downscaled sun-induced fluorescence global product for enhanced monitoring of vegetation productivity. <i>Earth System Science Data</i> , 2020, 12, 1101-1116.	3.7	52
82	A spatially explicit database of wind disturbances in European forests over the period 2000-2018. <i>Earth System Science Data</i> , 2020, 12, 257-276.	3.7	52
83	Vegetation-based climate mitigation in a warmer and greener World. <i>Nature Communications</i> , 2022, 13, 606.	5.8	51
84	Greening drylands despite warming consistent with carbon dioxide fertilization effect. <i>Global Change Biology</i> , 2021, 27, 3336-3349.	4.2	50
85	Indirect partitioning of soil respiration in a series of evergreen forest ecosystems. <i>Plant and Soil</i> , 2006, 284, 7-22.	1.8	49
86	Improving the performance of remote sensing models for capturing intra- and inter-annual variations in daily GPP: An analysis using global FLUXNET tower data. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 416-429.	1.9	48
87	Spatio-temporal Convergence of Maximum Daily Light Use Efficiency Based on Radiation Absorption by Canopy Chlorophyll. <i>Geophysical Research Letters</i> , 2018, 45, 3508-3519.	1.5	48
88	Light capture efficiency decreases with increasing tree age and size in the southern hemisphere gymnosperm <i>Agathis australis</i> . <i>Trees - Structure and Function</i> , 2005, 19, 177-190.	0.9	46
89	Different response of surface temperature and air temperature to deforestation in climate models. <i>Earth System Dynamics</i> , 2019, 10, 473-484.	2.7	46
90	Temperature thresholds of ecosystem respiration at a global scale. <i>Nature Ecology and Evolution</i> , 2021, 5, 487-494.	3.4	46

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91	Biophysics and vegetation cover change: a process-based evaluation framework for confronting land surface models with satellite observations. <i>Earth System Science Data</i> , 2018, 10, 1265-1279.	3.7	46
92	On the choice of the driving temperature for eddy-covariance carbon dioxide flux partitioning. <i>Biogeosciences</i> , 2012, 9, 5243-5259.	1.3	45
93	Revealing the widespread potential of forests to increase low level cloud cover. <i>Nature Communications</i> , 2021, 12, 4337.	5.8	45
94	Model data fusion across ecosystems: from multisite optimizations to global simulations. <i>Geoscientific Model Development</i> , 2014, 7, 2581-2597.	1.3	43
95	Effects of needle clumping in shoots and crowns on the radiative regime of a Norway spruce canopy. <i>Annales Des Sciences Forestières</i> , 1998, 55, 89-102.	1.1	42
96	Controls on winter ecosystem respiration in temperate and boreal ecosystems. <i>Biogeosciences</i> , 2011, 8, 2009-2025.	1.3	42
97	An observation-constrained assessment of the climate sensitivity and future trajectories of wetland methane emissions. <i>Science Advances</i> , 2020, 6, eaay4444.	4.7	42
98	Ecosystem carbon fluxes and canopy spectral reflectance of a mountain meadow. <i>International Journal of Remote Sensing</i> , 2009, 30, 435-449.	1.3	41
99	A dataset mapping the potential biophysical effects of vegetation cover change. <i>Scientific Data</i> , 2018, 5, 180014.	2.4	41
100	Sensitivity of L-band vegetation optical depth to carbon stocks in tropical forests: a comparison to higher frequencies and optical indices. <i>Remote Sensing of Environment</i> , 2019, 232, 111303.	4.6	40
101	The sensitivity of the forest carbon budget shifts across processes along with stand development and climate change. <i>Ecological Applications</i> , 2019, 29, e01837.	1.8	39
102	How do variations in the temporal distribution of rainfall events affect ecosystem fluxes in seasonally water-limited Northern Hemisphere shrublands and forests?. <i>Biogeosciences</i> , 2012, 9, 1007-1024.	1.3	38
103	Modeling biomass burning and related carbon emissions during the 21st century in Europe. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1732-1747.	1.3	38
104	The European forest sector: past and future carbon budget and fluxes under different management scenarios. <i>Biogeosciences</i> , 2017, 14, 2387-2405.	1.3	38
105	Vegetation-specific model parameters are not required for estimating gross primary production. <i>Ecological Modelling</i> , 2014, 292, 1-10.	1.2	37
106	Experimental analysis of flux footprint for varying stability conditions in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2005, 135, 291-301.	1.9	36
107	Ancillary vegetation measurements at ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 645-664.	0.7	35
108	Modeling burned area in Europe with the Community Land Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 265-279.	1.3	33

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109	Global Surface Net-Radiation at 5 km from MODIS Terra. <i>Remote Sensing</i> , 2016, 8, 739.	1.8	33
110	Modification of light-acclimation of <i>Pinus sylvestris</i> shoot architecture by site fertility. <i>Agricultural and Forest Meteorology</i> , 2002, 111, 121-140.	1.9	30
111	Low historical nitrogen deposition effect on carbon sequestration in the boreal zone. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2542-2561.	1.3	29
112	Impacts of 2°C global warming on primary production and soil carbon storage capacity at pan-European level. <i>Climate Services</i> , 2017, 7, 64-77.	1.0	29
113	Patterns and controls of inter-annual variability in the terrestrial carbon budget. <i>Biogeosciences</i> , 2017, 14, 3815-3829.	1.3	27
114	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. <i>Global Biogeochemical Cycles</i> , 2019, 33, 439-457.	1.9	27
115	INFOCARB: A regional scale forest carbon inventory (Provincia Autonoma di Trento, Southern Italian) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> 1.4 26	1.4	26
116	Spatial and temporal variations in ecosystem response to monsoon precipitation variability in southwestern North America. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1999-2017.	1.3	26
117	Estimating daily forest carbon fluxes using a combination of ground and remotely sensed data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 266-279.	1.3	26
118	Exploiting the multi-angularity of the MODIS temporal signal to identify spatially homogeneous vegetation cover: A demonstration for agricultural monitoring applications. <i>Remote Sensing of Environment</i> , 2015, 166, 61-77.	4.6	25
119	Performance of Linear and Nonlinear Two-Leaf Light Use Efficiency Models at Different Temporal Scales. <i>Remote Sensing</i> , 2015, 7, 2238-2278.	1.8	23
120	Modeling the impacts of diffuse light fraction on photosynthesis in ORCHIDEE (v5453) land surface model. <i>Geoscientific Model Development</i> , 2020, 13, 5401-5423.	1.3	23
121	Evaluating the Interplay Between Biophysical Processes and Leaf Area Changes in Land Surface Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1102-1126.	1.3	22
122	Response to Comment on "Satellites reveal contrasting responses of regional climate to the widespread greening of Earth". <i>Science</i> , 2018, 360, .	6.0	22
123	Wind amplifies the polar sea ice retreat. <i>Environmental Research Letters</i> , 2020, 15, 124022.	2.2	22
124	Belowground carbon allocation patterns as determined by the in-growth soil core ¹³ C technique across different ecosystem types. <i>Geoderma</i> , 2016, 263, 140-150.	2.3	21
125	Size-Dependent Variation in Shoot Light-Harvesting Efficiency in Shade-Intolerant Conifers. <i>International Journal of Plant Sciences</i> , 2006, 167, 19-32.	0.6	20
126	Recent Changes in Global Photosynthesis and Terrestrial Ecosystem Respiration Constrained From Multiple Observations. <i>Geophysical Research Letters</i> , 2018, 45, 1058-1068.	1.5	19

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127	Clouds damp the radiative impacts of polar sea ice loss. <i>Cryosphere</i> , 2020, 14, 2673-2686.	1.5	19
128	The European forest carbon budget under future climate conditions and current management practices. <i>Biogeosciences</i> , 2022, 19, 3263-3284.	1.3	19
129	Climate, soils and <i>Cephalcia arvensis</i> outbreaks on <i>Picea abies</i> in the Italian Alps. <i>Forest Ecology and Management</i> , 1994, 68, 375-384.	1.4	18
130	State-dependent errors in a land surface model across biomes inferred from eddy covariance observations on multiple timescales. <i>Ecological Modelling</i> , 2012, 246, 11-25.	1.2	18
131	Effect of climate warming on the annual terrestrial net ecosystem CO ₂ exchange globally in the boreal and temperate regions. <i>Scientific Reports</i> , 2017, 7, 3108.	1.6	18
132	On the realistic contribution of European forests to reach climate objectives. <i>Carbon Balance and Management</i> , 2019, 14, 8.	1.4	18
133	Dual-chamber measurements of $\delta^{13}C$ of soil-respired CO ₂ partitioned using a field-based three end-member model. <i>Soil Biology and Biochemistry</i> , 2012, 47, 106-115.	4.2	17
134	Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. <i>Journal of Plant Ecology</i> , 2014, 7, 419-428.	1.2	16
135	Varying applicability of four different satellite-derived soil moisture products to global gridded crop model evaluation. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 48, 51-60.	1.4	16
136	Reply to Wernick, I. K. et al.; PalahÃn, M. et al.. <i>Nature</i> , 2021, 592, E18-E23.	13.7	16
137	Response to Comments on "Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021, 373, eabg7484.	6.0	15
138	Bayesian optimization of a light use efficiency model for the estimation of daily gross primary productivity in a range of Italian forest ecosystems. <i>Ecological Modelling</i> , 2015, 306, 57-66.	1.2	14
139	Geometry of the hemispherical radiometric footprint over plant canopies. <i>Theoretical and Applied Climatology</i> , 2018, 134, 981-990.	1.3	14
140	Methods and uncertainties in the experimental assessment of horizontal advection. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 62-71.	1.9	12
141	Patterns and trends of the dominant environmental controls of net biome productivity. <i>Biogeosciences</i> , 2020, 17, 2365-2379.	1.3	12
142	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.	3.3	11
143	Components of forest soil CO ₂ efflux estimated from $\delta^{14}C$ values of soil organic matter. <i>Plant and Soil</i> , 2013, 364, 55-68.	1.8	10
144	Response to Comment on "Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level". <i>Science</i> , 2011, 331, 1265-1265.	6.0	9

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145	Biometric assessment of aboveground carbon pools and fluxes in three European forests by Randomized Branch Sampling. <i>Forest Ecology and Management</i> , 2012, 267, 172-181.	1.4	8
146	Distribution and ecology of <i>Lymantria monacha</i> L. and <i>Cephalcia</i> spp. in non-outbreak areas of Trentino (N-Italy). <i>Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz</i> , 1992, 65, 92-99.	0.1	7
147	Temperature-Dependent Growth Model for Eggs and Larvae of <i>Cephalcia arvensis</i> (Hymenoptera: Tj ETQq1 1 0.784314 rgBT ₆ /Overloc	0.7	6
148	Optimal use of buffer volumes for the measurement of atmospheric gas concentration in multi-point systems. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4665-4672.	1.2	6
149	A temperature threshold to identify the driving climate forces of the respiratory process in terrestrial ecosystems. <i>European Journal of Soil Biology</i> , 2018, 89, 1-8.	1.4	5
150	Biases in the albedo sensitivity to deforestation in CMIP5 models and their impacts on the associated historical radiative forcing. <i>Earth System Dynamics</i> , 2020, 11, 1209-1232.	2.7	4
151	Spatial homogeneity from temporal stability: Exploiting the combined hyper-frequent revisit of Terra and Aqua to guide Earth System Science. <i>Remote Sensing of Environment</i> , 2021, 261, 112496.	4.6	2