

Europe-wide reduction in primary productivity caused

Nature

437, 529-533

DOI: [10.1038/nature03972](https://doi.org/10.1038/nature03972)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The carbon cycle under stress. <i>Nature</i> , 2005, 437, 483-484.	13.7	12
2	Origins of chemical biodefence. <i>Nature</i> , 2005, 437, 484-485.	13.7	3
3	Functional Diversity of Plantâ€™Pollinator Interaction Webs Enhances the Persistence of Plant Communities. <i>PLoS Biology</i> , 2005, 4, e1.	2.6	438
4	Is ring width a reliable proxy for stem-biomass increment? A case study in European beech. <i>Canadian Journal of Forest Research</i> , 2005, 35, 2920-2933.	0.8	80
5	Discriminating net ecosystem exchange between different vegetation plots in a heterogeneous forest. <i>Agricultural and Forest Meteorology</i> , 2005, 132, 315-328.	1.9	11
6	On the significance of atmospheric CO ₂ growth rate anomalies in 2002-2003. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	68
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10	Amplitude and frequency of temperature extremes over the North Atlantic region. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	71
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16	Impact of changing soil moisture distribution on net ecosystem productivity of a boreal aspen forest during and following drought. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 208-223.	1.9	175
17	The Fluxnet-Canada Research Network: Influence of climate and disturbance on carbon cycling in forests and peatlands. <i>Agricultural and Forest Meteorology</i> , 2006, 140, 1-5.	1.9	62
18	Sensitivity of water and carbon fluxes to climate changes from 1960 to 2100 in European forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2006, 141, 35-56.	1.9	100
19	Global change ecology. <i>Trends in Ecology and Evolution</i> , 2006, 21, 348-351.	4.2	34

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21	Impact of climate variability and land use changes on global biogenic volatile organic compound emissions. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2129-2146.	1.9	301
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29	Climate Risks and Their Impact on Agriculture and Forests in Switzerland. <i>Climatic Change</i> , 2006, 79, 79-102.	1.7	166
30	Extraordinary drought of 2003 overrules ozone impact on adult beech trees (<i>Fagus sylvatica</i>). <i>Trees - Structure and Function</i> , 2006, 20, 539-548.	0.9	127
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124	Soil management practices for sustainable agro-ecosystems. <i>Sustainability Science</i> , 2007, 2, 103-120.	2.5	100
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143	Terrestrial ecosystem carbon dynamics and climate feedbacks. <i>Nature</i> , 2008, 451, 289-292.	13.7	1,245
144	Prolonged suppression of ecosystem carbon dioxide uptake after an anomalously warm year. <i>Nature</i> , 2008, 455, 383-386.	13.7	142
145	Carbon accumulation in European forests. <i>Nature Geoscience</i> , 2008, 1, 425-429.	5.4	263

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147	Mechanisms of plant survival and mortality during drought: why do some plants survive while others succumb to drought?. <i>New Phytologist</i> , 2008, 178, 719-739.	3.5	3,232
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1295	Dynamics of stem water uptake among isohydric and anisohydric species experiencing a severe drought. <i>Tree Physiology</i> , 2017, 37, 1379-1392.	1.4	20
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1298	Future productivity and phenology changes in European grasslands for different warming levels: implications for grassland management and carbon balance. <i>Carbon Balance and Management</i> , 2017, 12, 11.	1.4	51
1299	Recent growth changes in Western European forests are driven by climate warming and structured across tree species climatic habitats. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	54
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1327	The multifaceted roles of NUCLEAR FACTOR-Y in <i>Arabidopsis thaliana</i> development and stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 636-644.	0.9	51
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1347	Benchmarking carbon fluxes of the ISIMIP2a biome models. <i>Environmental Research Letters</i> , 2017, 12, 045002.	2.2	30
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1413	Vulnerability of Ukrainian Forests to Climate Change. <i>Sustainability</i> , 2017, 9, 1152.	1.6	47
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1459	Quantifying soil moisture impacts on light use efficiency across biomes. <i>New Phytologist</i> , 2018, 218, 1430-1449.	3.5	184
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1542	Effects of urbanization on increasing heat risks in South China. <i>International Journal of Climatology</i> , 2018, 38, 5551-5562.	1.5	22
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1552	Likelihood of concurrent climate extremes and variations over China. <i>Environmental Research Letters</i> , 2018, 13, 094023.	2.2	71
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1555	Heat Stress in Field Crops: Impact and Management Approaches. , 2018, , 181-204.		3
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1571	Combined impact of heat stress and phosphate deficiency on growth and photochemical activity of sheepgrass (<i>Leymus chinensis</i>). <i>Journal of Plant Physiology</i> , 2018, 231, 271-276.	1.6	8
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1573	Can tree species richness attenuate the effect of drought on organic matter decomposition and stabilization in young plantation forests?. <i>Acta Oecologica</i> , 2018, 93, 30-40.	0.5	5
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1578	The Impact of Global Climate Change on Nutrition Security: A Multidimensional Challenge. , 0, , 275-295.		0
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1587	Sensitivity of stomatal conductance to soil moisture: implications for tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5747-5763.	1.9	39
1588	Profile distribution of soil organic and inorganic carbon following revegetation on the Loess Plateau, China. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30301-30314.	2.7	10
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1597	Temporal and spatial heterogeneity of drought impact on vegetation growth on the Inner Mongolian Plateau. <i>Rangeland Journal</i> , 2018, 40, 113.	0.4	20
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1733	The effect of policy leveraging climate change adaptive capacity in agriculture. <i>European Review of Agricultural Economics</i> , 2019, , .	1.5	1
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1740	Projected increases in intensity, frequency, and terrestrial carbon costs of compound drought and aridity events. <i>Science Advances</i> , 2019, 5, eaau5740.	4.7	211
1741	Climate change, adaptation, and agricultural output. <i>Regional Environmental Change</i> , 2019, 19, 113-123.	1.4	23
1742	A SIMPLE crop model. <i>European Journal of Agronomy</i> , 2019, 104, 97-106.	1.9	67
1743	A novel optimization approach incorporating non-stomatal limitations predicts stomatal behaviour in species from six plant functional types. <i>Journal of Experimental Botany</i> , 2019, 70, 1639-1651.	2.4	17
1744	Bridging Drought Experiment and Modeling: Representing the Differential Sensitivities of Leaf Gas Exchange to Drought. <i>Frontiers in Plant Science</i> , 2018, 9, 1965.	1.7	23
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1746	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. <i>Agricultural and Forest Meteorology</i> , 2019, 275, 47-58.	1.9	40
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1748	Stability of wheat grain yields over three field seasons in the UK. <i>Food and Energy Security</i> , 2019, 8, e00147.	2.0	18
1749	Increased probability of compound long-duration dry and hot events in Europe during summer (1950-2013). <i>Environmental Research Letters</i> , 2019, 14, 094006.	2.2	103
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1751	Precipitation intensity under a warming climate is threatening some Italian premium wines. <i>Science of the Total Environment</i> , 2019, 685, 508-513.	3.9	14
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1755	Surface Temperatures in the Urban Environment. , 2019, , 203-226.		1
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1759	How representative are FLUXNET measurements of surface fluxes during temperature extremes?. <i>Biogeosciences</i> , 2019, 16, 1829-1844.	1.3	11
1760	Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019, 5, eaaw0076.	4.7	45
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1774	The Exceptional 2018 European Water Seesaw Calls for Action on Adaptation. <i>Earth's Future</i> , 2019, 7, 652-663.	2.4	126

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1785	The European 2016/17 Drought. <i>Journal of Climate</i> , 2019, 32, 3169-3187.	1.2	86
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1795	Drought impacts on terrestrial primary production underestimated by satellite monitoring. <i>Nature Geoscience</i> , 2019, 12, 264-270.	5.4	259
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1806	Risks to carbon dynamics in semi-arid woodlands of eastern Australia under current and future climates. <i>Journal of Environmental Management</i> , 2019, 235, 500-510.	3.8	12
1807	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. <i>Global Biogeochemical Cycles</i> , 2019, 33, 439-457.	1.9	27
1808	Drought impacts on tree phloem: from cell-level responses to ecological significance. <i>Tree Physiology</i> , 2019, 39, 173-191.	1.4	68
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1816	State-of-the-art global models underestimate impacts from climate extremes. <i>Nature Communications</i> , 2019, 10, 1005.	5.8	168
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1822	Multi-Index Drought Assessment in Europe. <i>Proceedings (mdpi)</i> , 2019, 7, 20.	0.2	4
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1831	Deer movement and resource selection during Hurricane Irma: implications for extreme climatic events and wildlife. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192230.	1.2	25
1832	Increasing impacts of extreme droughts on vegetation productivity under climate change. <i>Nature Climate Change</i> , 2019, 9, 948-953.	8.1	260
1833	Seasonal Characteristics of Model Uncertainties From Biogenic Fluxes, Transport, and Large-Scale Boundary Inflow in Atmospheric CO ₂ Simulations Over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 14325-14346.	1.2	26
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1835	NDVI-Based Winter Wheat Responses to Heatwave in the North China Plain. , 2019, , .		0
1836	Assessing the Impacts of Extreme Climate Events on Vegetation Activity in the North South Transect of Eastern China (NSTEC). <i>Water (Switzerland)</i> , 2019, 11, 2291.	1.2	5
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1838	Effects of Bark Beetle Disturbance on Soil Nutrient Retention and Lake Chemistry in Glacial Catchment. <i>Ecosystems</i> , 2019, 22, 725-741.	1.6	20
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1840	Greater focus on water pools may improve our ability to understand and anticipate drought-induced mortality in plants. <i>New Phytologist</i> , 2019, 223, 22-32.	3.5	134
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1843	Validation of drought indices using environmental indicators: streamflow and carbon flux data. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 218-226.	1.9	19
1844	Carbon exchange responses of a mesic grassland to an extreme gradient of precipitation. <i>Oecologia</i> , 2019, 189, 565-576.	0.9	27
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1849	Water relations of drought-stressed temperate trees benefit from short drought-intermittent rainfall events. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 70-77.	1.9	16
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1854	Transpiration in recovering mixed loblolly pine and oak stands following wildfire in the Lost Pines region of Texas. <i>Ecohydrology</i> , 2019, 12, e2052.	1.1	5
1855	Environmental drivers interactively affect individual tree growth across temperate European forests. <i>Global Change Biology</i> , 2019, 25, 201-217.	4.2	44
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1859	Vegetation Response to Rising CO ₂ Impacts Extreme Temperatures. <i>Geophysical Research Letters</i> , 2019, 46, 1383-1392.	1.5	28
1860	Trends in extreme climatic indices across the temperate steppes of China from 1961 to 2013. <i>Journal of Plant Ecology</i> , 2019, 12, 485-497.	1.2	6
1861	Distinct growth responses to drought for oak and beech in temperate mixed forests. <i>Science of the Total Environment</i> , 2019, 650, 3017-3026.	3.9	52
1862	Response of crop yield to different time-scales of drought in the United States: Spatio-temporal patterns and climatic and environmental drivers. <i>Agricultural and Forest Meteorology</i> , 2019, 264, 40-55.	1.9	77
1863	Atmospheric pCO ₂ impacts leaf structural and physiological traits in <i>Quercus petraea</i> seedlings. <i>Planta</i> , 2019, 249, 481-495.	1.6	6
1864	Impact of water scarcity on spruce and beech forests. <i>Journal of Forestry Research</i> , 2019, 30, 899-909.	1.7	21

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1871	Satellite observed indicators of the maximum plant growth potential and their responses to drought over Tibetan Plateau (1982–2015). <i>Ecological Indicators</i> , 2020, 108, 105732.	2.6	20
1872	A review of environmental droughts: Increased risk under global warming?. <i>Earth-Science Reviews</i> , 2020, 201, 102953.	4.0	283
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1876	Thinning enhances stool resistance to an extreme drought in a Mediterranean <i>Quercus ilex</i> L. coppice: insights for adaptation. <i>New Forests</i> , 2020, 51, 597-613.	0.7	6
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1878	How eddy covariance flux measurements have contributed to our understanding of <i>Global Change Biology</i> . <i>Global Change Biology</i> , 2020, 26, 242-260.	4.2	216
1879	Element content and expression of genes of interest in guard cells are connected to spatiotemporal variations in stomatal conductance. <i>Plant, Cell and Environment</i> , 2020, 43, 87-102.	2.8	7
1880	Environmental control of daily stem radius increment in the montane conifer <i>Cedrus libani</i> . <i>Journal of Forestry Research</i> , 2020, 31, 1159-1171.	1.7	5
1881	Dominant modes of interannual variability of extreme high-temperature events in eastern China during summer and associated mechanisms. <i>International Journal of Climatology</i> , 2020, 40, 841-857.	1.5	21
1883	Adaptation of paddy rice in China to climate change: The effects of shifting sowing date on yield and irrigation water requirement. <i>Agricultural Water Management</i> , 2020, 228, 105890.	2.4	79

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1886	Seasonal variability of forest sensitivity to heat and drought stresses: A synthesis based on carbon fluxes from North American forest ecosystems. <i>Global Change Biology</i> , 2020, 26, 901-918.	4.2	49
1887	Terrestrial N ₂ O emissions and related functional genes under climate change: A global meta-analysis. <i>Global Change Biology</i> , 2020, 26, 931-943.	4.2	125
1888	Mining ecophysiological responses of European beech ecosystems to drought. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107780.	1.9	8
1889	Interannual variation of terrestrial carbon cycle: Issues and perspectives. <i>Global Change Biology</i> , 2020, 26, 300-318.	4.2	214
1890	The compensation effects of post-drought regrowth on earlier drought loss across the tibetan plateau grasslands. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107822.	1.9	39
1891	Long-Term Increasing Productivity of High-Elevation Grassland Caused by Elevated Precipitation and Temperature. <i>Rangeland Ecology and Management</i> , 2020, 73, 156-161.	1.1	11
1892	The impact of drought spells on forests depends on site conditions: The case of 2017 summer heat wave in southern Europe. <i>Global Change Biology</i> , 2020, 26, 851-863.	4.2	83
1893	Synergistic Promotion of the Electrochemical Reduction of Nitrogen to Ammonia by Phosphorus and Potassium. <i>ChemCatChem</i> , 2020, 12, 334-341.	1.8	34
1894	Optimizing the Crystallite Structure of Lignin-Based Nanospheres by Resinification for High-Performance Sodium-Ion Battery Anodes. <i>Energy Technology</i> , 2020, 8, 1900694.	1.8	9
1895	Nonlinear responses of soil nematode community composition to increasing aridity. <i>Global Ecology and Biogeography</i> , 2020, 29, 117-126.	2.7	36
1896	AtWRKY21 negatively regulates tolerance to osmotic stress in Arabidopsis. <i>Environmental and Experimental Botany</i> , 2020, 169, 103920.	2.0	21
1897	Responses of Water Use Efficiency to Drought in Southwest China. <i>Remote Sensing</i> , 2020, 12, 199.	1.8	45
1898	Plant uptake of nitrogen and phosphorus among grassland species affected by drought along a soil available phosphorus gradient. <i>Plant and Soil</i> , 2020, 448, 121-132.	1.8	34
1899	Eddy covariance measurements of CO ₂ exchange from agro-ecosystems located in subtropical (India) and boreal (Finland) climatic conditions. <i>Journal of Earth System Science</i> , 2020, 129, 1.	0.6	13
1900	Physiological Beneficial Effect of Rhizophagus intraradices Inoculation on Tomato Plant Yield under Water Deficit Conditions. <i>Agronomy</i> , 2020, 10, 71.	1.3	20
1901	An extreme heatwave enhanced the xanthophyll de-epoxidation state in leaves of Eucalyptus trees grown in the field. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 211-218.	1.4	11

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1902	Exceptional Drought across Southeastern Australia Caused by Extreme Lack of Precipitation and Its Impacts on NDVI and SIF in 2018. <i>Remote Sensing</i> , 2020, 12, 54.	1.8	47
1903	Available and missing data to model impact of climate change on European forests. <i>Ecological Modelling</i> , 2020, 416, 108870.	1.2	58
1904	Increases in summertime concurrent drought and heatwave in Eastern China. <i>Weather and Climate Extremes</i> , 2020, 28, 100242.	1.6	79
1905	Unraveling the influence of atmospheric evaporative demand on drought and its response to climate change. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020, 11, e632.	3.6	118
1906	A membrane-associated NAC transcription factor OsNTL3 is involved in thermotolerance in rice. <i>Plant Biotechnology Journal</i> , 2020, 18, 1317-1329.	4.1	126
1907	Elevation-dependent effects of growing season length on carbon sequestration in Xizang Plateau grassland. <i>Ecological Indicators</i> , 2020, 110, 105880.	2.6	12
1908	Severe drought events inducing large decrease of net primary productivity in mainland China during 1982–2015. <i>Science of the Total Environment</i> , 2020, 703, 135541.	3.9	60
1909	The effects of river-level oscillations on the macroinvertebrate community in a river floodplain system. <i>Limnology</i> , 2020, 21, 219-232.	0.8	13
1910	Impact of successive rainfall events on the dynamic relationship between vegetation canopies, infiltration, and recharge in engineered urban green infrastructure systems. <i>Ecohydrology</i> , 2020, 13, e2185.	1.1	11
1911	Plant profit maximization improves predictions of European forest responses to drought. <i>New Phytologist</i> , 2020, 226, 1638-1655.	3.5	59
1912	Machine learning applications for agricultural impacts under extreme events. , 2020, , 119-138.		15
1913	Comparison of Meteorological Drought Indices for Different Climatic Regions of an Indian River Basin. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2020, 56, 563-576.	1.3	31
1914	Flash droughts in the Pearl River Basin, China: Observed characteristics and future changes. <i>Science of the Total Environment</i> , 2020, 707, 136074.	3.9	50
1915	A reporting framework for Sustainable Development Goal 15: Multi-scale monitoring of forest degradation using MODIS, Landsat and Sentinel data. <i>Remote Sensing of Environment</i> , 2020, 237, 111592.	4.6	45
1916	Molecular bases of responses to abiotic stress in trees. <i>Journal of Experimental Botany</i> , 2020, 71, 3765-3779.	2.4	65
1917	Estimate of vegetation production of terrestrial ecosystem. , 2020, , 581-620.		2
1918	Variability in Winter Wheat (<i>Triticum aestivum</i> L.) Grain Yield Response to Nitrogen Fertilization in Long-Term Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 403-412.	0.6	9
1919	Remote sensing of the impact of flash drought events on terrestrial carbon dynamics over China. <i>Carbon Balance and Management</i> , 2020, 15, 20.	1.4	34

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1920	Autumn Phenological Response of European Beech to Summer Drought and Heat. <i>Water (Switzerland)</i> , 2020, 12, 2610.	1.2	19
1921	Unprecedented pluri-decennial increase in the growing stock of French forests is persistent and dominated by private broadleaved forests. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	5
1922	Heat Waves Change Plant Carbon Allocation Among Primary and Secondary Metabolism Altering CO ₂ Assimilation, Respiration, and VOC Emissions. <i>Frontiers in Plant Science</i> , 2020, 11, 1242.	1.7	22
1923	Challenges for drought assessment in the Mediterranean region under future climate scenarios. <i>Earth-Science Reviews</i> , 2020, 210, 103348.	4.0	224
1924	Improving a land surface scheme for estimating sensible and latent heat fluxes above grasslands with contrasting soil moisture zones. <i>Agricultural and Forest Meteorology</i> , 2020, 294, 108151.	1.9	9
1925	Large-scale early wilting response of Central European forests to the 2018 extreme drought. <i>Global Change Biology</i> , 2020, 26, 7021-7035.	4.2	80
1926	Drought response of European beech (<i>Fagus sylvatica</i> L.)—A review. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 47, 125576.	1.1	116
1927	Photosynthetic and Respiratory Acclimation of Understory Shrubs in Response to in situ Experimental Warming of a Wet Tropical Forest. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	21
1928	Warmer spring alleviated the impacts of 2018 European summer heatwave and drought on vegetation photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108195.	1.9	48
1929	Net Primary Productivity Loss under different drought levels in different grassland ecosystems. <i>Journal of Environmental Management</i> , 2020, 274, 111144.	3.8	37
1930	Demographic shifts in eastern US forests increase the impact of late-season drought on forest growth. <i>Ecography</i> , 2020, 43, 1475-1486.	2.1	27
1931	CO ₂ fertilization, transpiration deficit and vegetation period drive the response of mixed broadleaved forests to a changing climate in Wallonia. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	5
1932	Environmental control of land-atmosphere CO ₂ fluxes from temperate ecosystems: a statistical approach based on homogenized time series from five land-use types. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1784689.	0.8	4
1933	Plant Hydraulic Stress Strategy Improves Model Predictions of the Response of Gross Primary Productivity to Drought Across China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033476.	1.2	10
1934	Climate-Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006613.	1.9	36
1935	How Hard Did That Sting? Estimating the Economic Costs of Locust Attacks on Agricultural Production. <i>Applied Economic Perspectives and Policy</i> , 2020, .	3.1	10
1936	Seasonal Herbaceous Structure and Biomass Production Response to Rainfall Reduction and Resting Period in the Semi-Arid Grassland Area of South Africa. <i>Agronomy</i> , 2020, 10, 1807.	1.3	4
1937	The Carbon Cycle of Terrestrial Ecosystems. , 2020, , 141-182.		4

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1938	Observed variability in soil moisture in engineered urban green infrastructure systems and linkages to ecosystem services. <i>Journal of Hydrology</i> , 2020, 590, 125381.	2.3	16
1939	Testing the diversity–biomass relationship in riverine fish communities. <i>Global Ecology and Biogeography</i> , 2020, 29, 1743-1757.	2.7	8
1940	Time-varying trends of vegetation change and their driving forces during 1981–2016 along the silk road economic belt. <i>Catena</i> , 2020, 195, 104796.	2.2	21
1941	Drought Vulnerability in the United States: An Integrated Assessment. <i>Water (Switzerland)</i> , 2020, 12, 2033.	1.2	30
1942	Impacts of 1.5–2.0°C global warming above pre-industrial on potential winter wheat production of China. <i>European Journal of Agronomy</i> , 2020, 120, 126149.	1.9	39
1943	Increased future occurrences of the exceptional 2018–2019 Central European drought under global warming. <i>Scientific Reports</i> , 2020, 10, 12207.	1.6	207
1944	Competition for water rather than facilitation in mixed beech-fir forests after drying-wetting cycle. <i>Journal of Hydrology</i> , 2020, 587, 124944.	2.3	37
1945	Non-stomatal processes reduce gross primary productivity in temperate forest ecosystems during severe edaphic drought. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190527.	1.8	24
1946	A historical, geographical and ecological perspective on the 2018 European summer drought. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190505.	1.8	89
1947	Effects of drought and meteorological forcing on carbon and water fluxes in Nordic forests during the dry summer of 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190516.	1.8	35
1948	No effect of warming and watering on soil nitrous oxide fluxes in a temperate sitka spruce forest ecosystem. <i>Journal of Integrative Environmental Sciences</i> , 2020, 17, 83-96.	1.0	3
1949	Synergistic use of SMAP and OCO-2 data in assessing the responses of ecosystem productivity to the 2018 U.S. drought. <i>Remote Sensing of Environment</i> , 2020, 251, 112062.	4.6	34
1950	Increased Surface Broadband Emissivity Driven by Denser Vegetation on the Tibetan Plateau Grassland Area. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 1845-1859.	1.2	2
1951	Water Supply and Water Scarcity. <i>Water (Switzerland)</i> , 2020, 12, 2347.	1.2	132
1952	A Bornean peat swamp forest is a net source of carbon dioxide to the atmosphere. <i>Global Change Biology</i> , 2020, 26, 6931-6944.	4.2	10
1953	Extreme climate historical variation based on tree-ring width record in the Tianshan Mountains of northwestern China. <i>International Journal of Biometeorology</i> , 2020, 64, 2127-2139.	1.3	5
1954	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190507.	1.8	64
1955	Elevation dependence of drought legacy effects on vegetation greenness over the Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108190.	1.9	39

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1957	Increasing the broad-leaved tree fraction in European forests mitigates hot temperature extremes. <i>Scientific Reports</i> , 2020, 10, 14153.	1.6	32
1958	Contrasting CO ₂ and water vapour fluxes in dry forest and pasture sites of central Argentina. <i>Ecohydrology</i> , 2020, 13, e2244.	1.1	7
1959	Atmospheric heat and moisture transport to energy- and water-limited ecosystems. <i>Annals of the New York Academy of Sciences</i> , 2020, 1472, 123-138.	1.8	6
1960	A landscape-scale assessment of the relationship between grassland functioning, community diversity, and functional traits. <i>Ecology and Evolution</i> , 2020, 10, 9906-9919.	0.8	8
1961	Physiological response of Swiss ecosystems to 2018 drought across plant types and elevation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190521.	1.8	42
1962	The European carbon cycle response to heat and drought as seen from atmospheric CO ₂ data for 1999–2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190506.	1.8	19
1963	Current and future impacts of drought and ozone stress on Northern Hemisphere forests. <i>Global Change Biology</i> , 2020, 26, 6218-6234.	4.2	20
1964	The fingerprint of the summer 2018 drought in Europe on ground-based atmospheric CO ₂ measurements. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190513.	1.8	31
1965	Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190524.	1.8	35
1966	Spring enhancement and summer reduction in carbon uptake during the 2018 drought in northwestern Europe. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190509.	1.8	39
1967	Changes in net ecosystem exchange over Europe during the 2018 drought based on atmospheric observations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190512.	1.8	37
1968	Abrupt Climate and Weather Changes Across Time Scales. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003782.	1.3	51
1969	Diversity Patterns of Bermuda Grass along Latitudinal Gradients at Different Temperatures in Southeastern China. <i>Plants</i> , 2020, 9, 1778.	1.6	5
1970	Gains or Losses in Forest Productivity under Climate Change? The Uncertainty of CO ₂ Fertilization and Climate Effects. <i>Climate</i> , 2020, 8, 141.	1.2	16
1971	Agricultural Hydroinformatics: A Blueprint for an Emerging Framework to Foster Water Management-Centric Sustainability Transitions in Farming Systems. <i>Frontiers in Water</i> , 2020, 2, .	1.0	2
1972	Exogenous Salicylic Acid Modulates the Response to Combined Salinity-Temperature Stress in Pepper Plants (<i>Capsicum annuum</i> L. var. Tamarin). <i>Plants</i> , 2020, 9, 1790.	1.6	15
1973	Projected changes of carbon balance in mesic grassland ecosystems in response to warming and elevated CO ₂ using CMIP5 GCM results in the Central Great Plains, USA. <i>Ecological Modelling</i> , 2020, 434, 109247.	1.2	2

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1974	A database for characteristics and variations of global compound dry and hot events. <i>Weather and Climate Extremes</i> , 2020, 30, 100299.	1.6	31
1975	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020, 370, 1295-1300.	6.0	317
1976	Linkages between Rainfed Cereal Production and Agricultural Drought through Remote Sensing Indices and a Land Data Assimilation System: A Case Study in Morocco. <i>Remote Sensing</i> , 2020, 12, 4018.	1.8	27
1977	Higher susceptibility of beech to drought in comparison to oak. <i>Dendrochronologia</i> , 2020, 64, 125780.	1.0	25
1978	Overexpression of BpLERD15 Enhances Drought Tolerance in <i>Betula platyphylla</i> Suk.. <i>Forests</i> , 2020, 11, 978.	0.9	7
1979	ROS and NO Regulation by Melatonin Under Abiotic Stress in Plants. <i>Antioxidants</i> , 2020, 9, 1078.	2.2	73
1980	Estimating Crop and Grass Productivity over the United States Using Satellite Solar-Induced Chlorophyll Fluorescence, Precipitation and Soil Moisture Data. <i>Remote Sensing</i> , 2020, 12, 3434.	1.8	5
1981	Climate Change, Agriculture, and Energy Transition: What Do the Thirty Most-Cited Articles Tell Us?. <i>Sustainability</i> , 2020, 12, 8015.	1.6	3
1982	Changes in the Characteristics of Dry and Wet Periods in Europe (1851–2015). <i>Atmosphere</i> , 2020, 11, 1080.	1.0	10
1983	Capturing the Impact of the 2018 European Drought and Heat across Different Vegetation Types Using OCO-2 Solar-Induced Fluorescence. <i>Remote Sensing</i> , 2020, 12, 3249.	1.8	25
1984	Effects of decadal experimental drought and climate extremes on vegetation growth in Mediterranean forests and shrublands. <i>Journal of Vegetation Science</i> , 2020, 31, 768-779.	1.1	12
1985	Provenance selection and site conditions determine growth performance of pedunculate oak. <i>Dendrochronologia</i> , 2020, 61, 125705.	1.0	25
1986	Comprehensive Assessment of the Effect of Urban Built-Up Land Expansion and Climate Change on Net Primary Productivity. <i>Complexity</i> , 2020, 2020, 1-12.	0.9	17
1987	Compound Drought and Heatwaves at a Global Scale: The Role of Natural Climate Variability–Associated Synoptic Patterns and Land–Surface Energy Budget Anomalies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031943.	1.2	58
1988	Global pattern of short-term concurrent hot and dry extremes and its relationship to large-scale climate indices. <i>International Journal of Climatology</i> , 2020, 40, 5906-5924.	1.5	16
1989	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12192-12200.	3.3	140
1990	Robust Future Changes in Meteorological Drought in CMIP6 Projections Despite Uncertainty in Precipitation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087820.	1.5	239
1991	Growth and resilience responses of Scots pine to extreme droughts across Europe depend on predrought growth conditions. <i>Global Change Biology</i> , 2020, 26, 4521-4537.	4.2	105

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1992	Review: The influence of global change on Europe's water cycle and groundwater recharge. <i>Hydrogeology Journal</i> , 2020, 28, 1939-1959.	0.9	42
1993	A genetic view on the role of prolonged drought stress and mating systems on post-drought recovery, persistence and drought memory of orchardgrass (<i>Dactylis glomerata</i> L.). <i>Euphytica</i> , 2020, 216, 1.	0.6	4
1994	Climate-growth relationships of Norway Spruce and silver fir in primary forests of the Croatian Dinaric mountains. <i>Agricultural and Forest Meteorology</i> , 2020, 288-289, 108000.	1.9	9
1995	Maize, wheat and rice production potential changes in China under the background of climate change. <i>Agricultural Systems</i> , 2020, 182, 102853.	3.2	46
1996	Dynamic responses of gas exchange and photochemistry to heat interference during drought in wheat and sorghum. <i>Functional Plant Biology</i> , 2020, 47, 611.	1.1	8
1997	Characteristics and trends of flash droughts in Spain, 1961–2018. <i>Annals of the New York Academy of Sciences</i> , 2020, 1472, 155-172.	1.8	44
1998	Heterogeneity in short-term allocation of carbon to roots of <i>Pinus tabulaeformis</i> seedlings and root respiration under drought stress. <i>Plant and Soil</i> , 2020, 452, 359-378.	1.8	10
1999	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
2000	The way back: recovery of trees from drought and its implication for acclimation. <i>New Phytologist</i> , 2020, 228, 1704-1709.	3.5	79
2001	Depth moderates loss of marine foundation species after an extreme marine heatwave: could deep temperate reefs act as a refuge?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200709.	1.2	27
2002	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , 2020, 6, eaba2724.	4.7	229
2003	Long-term carbon flux and balance in managed and natural coastal forested wetlands of the Southeastern USA. <i>Agricultural and Forest Meteorology</i> , 2020, 288-289, 108022.	1.9	24
2004	C-exchange and balance following clear-cutting in hemiboreal forest ecosystem under summer drought. <i>Forest Ecology and Management</i> , 2020, 472, 118249.	1.4	11
2005	Implications of Reduced Stand Density on Tree Growth and Drought Susceptibility: A Study of Three Species under Varying Climate. <i>Forests</i> , 2020, 11, 627.	0.9	27
2006	Transpiration drivers of high-elevation five-needle pines (<i>Pinus longaeva</i> and <i>Pinus flexilis</i>) in sky-island ecosystems of the North American Great Basin. <i>Science of the Total Environment</i> , 2020, 739, 139861.	3.9	23
2007	Drought stress induced increase of fungi:bacteria ratio in a poplar plantation. <i>Catena</i> , 2020, 193, 104607.	2.2	57
2008	Visual and hydraulic techniques produce similar estimates of cavitation resistance in woody species. <i>New Phytologist</i> , 2020, 228, 884-897.	3.5	37
2009	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 333-347.	12.2	536

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2010	Large-scale biospheric drought response intensifies linearly with drought duration in arid regions. <i>Biogeosciences</i> , 2020, 17, 2647-2656.	1.3	27
2011	Analysis of the 21-years long carbon dioxide flux dataset from a Central European tall tower site. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108027.	1.9	6
2012	Comparative transcriptomics reveal insights into the drought response of the three <i>Panicum</i> species <i>P. bisulcatum</i> , <i>P. laetum</i> and <i>P. turgidum</i> . <i>Plant Gene</i> , 2020, 23, 100232.	1.4	1
2013	Identifying areas at risk of drought-induced tree mortality across South-Eastern Australia. <i>Global Change Biology</i> , 2020, 26, 5716-5733.	4.2	79
2014	Drought Primarily Reduces Canopy Transpiration of Exposed Beech Trees and Decreases the Share of Water Uptake from Deeper Soil Layers. <i>Forests</i> , 2020, 11, 537.	0.9	17
2015	High Recovery of Saplings after Severe Drought in Temperate Deciduous Forests. <i>Forests</i> , 2020, 11, 546.	0.9	11
2016	Effects of Different Weeding Methods on the Biomass of Vegetation and Soil Evaporation in Eucalyptus Plantations. <i>Sustainability</i> , 2020, 12, 3669.	1.6	11
2017	Patterns and trends of the dominant environmental controls of net biome productivity. <i>Biogeosciences</i> , 2020, 17, 2365-2379.	1.3	12
2018	The record-breaking heat wave of June 2019 in Central Europe. <i>Atmospheric Science Letters</i> , 2020, 21, e964.	0.8	45
2019	Substantial understory contribution to the C sink of a European temperate mountain forest landscape. <i>Landscape Ecology</i> , 2020, 35, 483-499.	1.9	12
2020	Heat Wave Variations Across China Tied to Global SST Modes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031612.	1.2	21
2021	Direct climate effects are more influential than functional composition in determining future gross primary productivity. <i>Landscape Ecology</i> , 2020, 35, 969-984.	1.9	2
2022	An Observational Case Study of Synergies between an Intense Heat Wave and the Urban Heat Island in Beijing. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 605-620.	0.6	43
2023	Climate Extreme Versus Carbon Extreme: Responses of Terrestrial Carbon Fluxes to Temperature and Precipitation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005252.	1.3	29
2024	Influence of Cryogenesis on Soil Biota on the Example of the Southern Part of the Vitim Plateau. <i>Contemporary Problems of Ecology</i> , 2020, 13, 1-9.	0.3	0
2025	Global quantitative synthesis of ecosystem functioning across climatic zones and ecosystem types. <i>Global Ecology and Biogeography</i> , 2020, 29, 1139-1176.	2.7	22
2026	Ghosts of the past: how drought legacy effects shape forest functioning and carbon cycling. <i>Ecology Letters</i> , 2020, 23, 891-901.	3.0	168
2027	Small-Scale Forest Structure Influences Spatial Variability of Belowground Carbon Fluxes in a Mature Mediterranean Beech Forest. <i>Forests</i> , 2020, 11, 255.	0.9	10

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2028	Tree growth patterns and diagnosis of water status based on trunk diameter fluctuations in fast-growing <i>Populus tomentosa</i> plantations. <i>Agricultural Water Management</i> , 2020, 241, 106348.	2.4	16
2029	Seasonal variability of soil moisture-precipitation feedbacks over India. <i>Journal of Hydrology</i> , 2020, 589, 125181.	2.3	12
2031	Soil water status triggers CO ₂ fertilization effect on the growth of winter wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 662 Td	1.9	14
2032	No perfect storm for crop yield failure in Germany. <i>Environmental Research Letters</i> , 2020, 15, 104012.	2.2	53
2033	Copula-based Joint Drought Index using SPI and EDDI and its application to climate change. <i>Science of the Total Environment</i> , 2020, 744, 140701.	3.9	71
2034	Drought Impacts on Vegetation in Southeastern Europe. <i>Remote Sensing</i> , 2020, 12, 2156.	1.8	19
2035	Spatial distribution of tree species in mountain national parks depends on geomorphology and climate. <i>Forest Ecology and Management</i> , 2020, 474, 118366.	1.4	21
2036	Effects of drought on hay and feed grain prices. <i>Environmental Research Letters</i> , 2020, 15, 034014.	2.2	14
2037	Species mixing reduces drought susceptibility of Scots pine (<i>Pinus sylvestris</i> L.) and oak (<i>Quercus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 662 Td <i>Forest Ecology and Management</i> , 2020, 461, 117908.	1.4	65
2038	Shifts Between and Among Populations of Wheat Rhizosphere <i>Pseudomonas</i> , <i>Streptomyces</i> and <i>Phyllobacterium</i> Suggest Consistent Phosphate Mobilization at Different Wheat Growth Stages Under Abiotic Stress. <i>Frontiers in Microbiology</i> , 2019, 10, 3109.	1.5	25
2039	Uncertainty analysis of multiple global GPP datasets in characterizing the lagged effect of drought on photosynthesis. <i>Ecological Indicators</i> , 2020, 113, 106224.	2.6	32
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