

CITATION REPORT

List of articles citing

Net carbon dioxide losses of northern ecosystems in response to autumn warming

DOI: 10.1038/nature06444
Nature, 2008, 451, 49-52.

Source: <https://exaly.com/paper-pdf/43644928/citation-report.pdf>

Version: 2024-04-29

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
853	Spatio-temporal patterns of forest carbon dioxide exchange based on global eddy covariance measurements. 2008 , 51, 1129-1143		17
852	Ten years of fluxes and stand growth in a young beech forest at Hesse, North-eastern France. 2008 , 65, 704-704		122
851	Carbon cycle: sources, sinks and seasons. <i>Nature</i> , 2008 , 451, 26-7	50.4	14
850	Optics: watch your back. <i>Nature</i> , 2008 , 451, 27	50.4	2
849	Modeling analysis of primary controls on net ecosystem productivity of seven boreal and temperate coniferous forests across a continental transect. 2008 , 14, 1765-1784		30
848	Increased organic C and N leaching in a northern boreal river basin in Finland. 2008 , 22, n/a-n/a		85
847	Water and energy exchange in East Siberian forest: An introduction. 2008 , 148, 1913-1915		5
846	Water and energy exchange in East Siberian forest: A synthesis. 2008 , 148, 2013-2018		17
845	Climate change. Ecosystem disturbance, carbon, and climate. 2008 , 321, 652-3		207
844	Increased air temperature during simulated autumn conditions impairs photosynthetic electron transport between photosystem II and photosystem I. 2008 , 147, 402-14		34
843	Research on belowground productivity and ecophysiology of balsam fir and sugar maple in New Brunswick. 2008 , 84, 563-567		1
842	A young afforestation area in Iceland was a moderate sink to CO ₂ ; only a decade after scarification and establishment. 2009 , 6, 2895-2906		10
841	Variability and recent trends in the African terrestrial carbon balance. 2009 , 6, 1935-1948		52
840	Changes in net ecosystem productivity of boreal black spruce stands in response to changes in temperature at diurnal and seasonal time scales. 2009 , 29, 1-17		41
839	Influence of spring phenology on seasonal and annual carbon balance in two contrasting New England forests. 2009 , 29, 321-31		263
838	Dynamics of spectral bio-indicators and their correlations with light use efficiency using directional observations at a Douglas-fir forest. 2009 , 20, 095107		23
837	Temperature sensitivity of soil respiration in different ecosystems in China. 2009 , 41, 1008-1014		187

836	A Satellite Approach to Estimate Land-Atmosphere CO_2 Exchange for Boreal and Arctic Biomes Using MODIS and AMSR-E. 2009 , 47, 569-587	46
835	Climate Variation and Soil Carbon and Nitrogen Cycling Processes in a Northern Hardwood Forest. 2009 , 12, 927-943	97
834	Responses of canopy duration to temperature changes in four temperate tree species: relative contributions of spring and autumn leaf phenology. 2009 , 161, 187-98	206
833	Seasonal variation in nitrogen uptake and turnover in two high-elevation soils: mineralization responses are site-dependent. 2009 , 93, 253-270	31
832	Viewing Change Through the Prism of Indigenous Human Ecology: Findings from the Afghan and Tajik Pamirs. 2009 , 37, 677-690	47
831	Trends and challenges in soil research 2009: linking global climate change to local long-term forest productivity. 2009 , 9, 83-88	78
830	Soil CO_2 efflux in contrasting boreal deciduous and coniferous stands and its contribution to the ecosystem carbon balance. 2009 , 15, 1302-1319	41
829	Seasonal controls on interannual variability in carbon dioxide exchange of a near-end-of rotation Douglas-fir stand in the Pacific Northwest, 1997-2006. 2009 , 15, 1962-1981	36
828	Exceptional carbon uptake in European forests during the warm spring of 2007: a data-model analysis. 2009 , 15, 1455-1474	96
827	Spring initiation and autumn cessation of boreal coniferous forest CO_2 exchange assessed by meteorological and biological variables. 2009 , 61, 701-717	27
826	Weeds of agricultural importance: bridging the gap between evolutionary ecology and crop and weed science. 2009 , 184, 741-3	30
825	From genes to ecosystems: an emerging synthesis of eco-evolutionary dynamics. Symposium 7, 94th Ecological Society of America Meeting, Albuquerque, New Mexico, USA, August 2009. 2009 , 184, 746-9	30
824	Phenology as a tool to link ecology and sustainable decision making in a dynamic environment. Symposium 14, 94th Ecological Society of America Meeting, Albuquerque, New Mexico, USA, August 2009. 2009 , 184, 743-5	11
823	Photosynthetic overcompensation under nocturnal warming enhances grassland carbon sequestration. 2009 , 90, 2700-10	159
822	The carbon budget of <i>Pinus radiata</i> plantations in south-western Australia under four climate change scenarios. 2009 , 29, 1081-93	15
821	Bomb- ^{14}C analysis of ecosystem respiration reveals that peatland vegetation facilitates release of old carbon. 2009 , 153, 393-401	35
820	Quantifying the response of forest carbon balance to future climate change in Northeastern China: Model validation and prediction. 2009 , 66, 179-194	87
819	Response of the carbon cycle in sub-arctic black spruce forests to climate change: Reduction of a carbon sink related to the sensitivity of heterotrophic respiration. 2009 , 149, 582-602	39

818	Modelling interannual and spatial variability of leaf senescence for three deciduous tree species in France. 2009 , 149, 938-948	176
817	A review of applications of model-data fusion to studies of terrestrial carbon fluxes at different scales. 2009 , 149, 1829-1842	123
816	Interannual variation in net ecosystem productivity of Canadian forests as affected by regional weather patterns [A Fluxnet-Canada synthesis. 2009 , 149, 2022-2039	73
815	Spatiotemporal patterns of terrestrial carbon cycle during the 20th century. 2009 , 23, n/a-n/a	151
814	Origins of the extremely warm European fall of 2006. 2009 , 36,	22
813	Footprint of temperature changes in the temperate and boreal forest carbon balance. 2009 , 36, n/a-n/a	34
812	Phenology of Ecosystem Processes. 2009 ,	38
811	Interannual variability of the carbon balance of three different-aged Douglas-fir stands in the Pacific Northwest. 2009 , 114,	43
810	Statistical representation of temperature mean and variability in Europe. 2009 , 36,	17
809	Aligning climate change and public health policies. 2009 , 374, 2035-2038	30
808	A protocol for labrador retrievers?. 2009 , 374, 2038-2039	3
807	Climatic and Phenological Controls of the Carbon and Energy Balances of Three Contrasting Boreal Forest Ecosystems in Western Canada. 2009 , 3-34	29
806	Changing ecophysiological processes and carbon budget in East Asian ecosystems under near-future changes in climate: implications for long-term monitoring from a process-based model. 2010 , 123, 577-88	84
805	Increasing carbon sinks through forest management: a model-based comparison for Switzerland with its Eastern Plateau and Eastern Alps. 2010 , 129, 563-572	19
804	Simulating phenological shifts in French temperate forests under two climatic change scenarios and four driving global circulation models. 2010 , 54, 563-81	61
803	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. 2010 , 103, 93-115	23
802	Plant ecology in China. 2010 , 209, 181-187	1
801	Are ecological gradients in seasonal Q ₁₀ of soil respiration explained by climate or by vegetation seasonality?. 2010 , 42, 1728-1734	87

800	Dynamic interactions of life and its landscape: feedbacks at the interface of geomorphology and ecology. 2010 , 35, 78-101	145
799	Identifying multiple spatiotemporal patterns: A refined view on terrestrial photosynthetic activity. 2010 , 31, 2309-2317	36
798	Is the recent build-up of atmospheric CO2 over Europe reproduced by models. Part 2: an overview with the atmospheric mesoscale transport model CHIMERE. 2010 , 62, 14-25	7
797	Role of terrestrial ecosystems in determining CO2 stabilization and recovery behaviour. 2010 , 62, 682-699	18
796	Warmer and drier conditions stimulate respiration more than photosynthesis in a boreal peatland ecosystem: analysis of automatic chambers and eddy covariance measurements. 2010 , 33, 394-407	80
795	Climate change, nutrient pollution and the bargain of Dr Faustus. 2010 , 55, 175-187	77
794	Longer growing seasons lead to less carbon sequestration by a subalpine forest. 2010 , 16, 771-783	244
793	Enhanced terrestrial carbon uptake in the Northern High Latitudes in the 21st century from the Coupled Carbon Cycle Climate Model Intercomparison Project model projections. 2010 , 16, 641-656	115
792	Use of tree rings to study the effect of climate change on trembling aspen in Québec. 2010 , 16, 2039-2051	55
791	The European carbon balance. Part 3: forests. 2010 , 16, 1429-1450	206
790	Climate variability as reflected in a regional atmospheric CO2 record. 2010 , 62, 417-426	7
789	Reduction of forest soil respiration in response to nitrogen deposition. 2010 , 3, 315-322	988
788	Soil microbial respiration responses to changing temperature and substrate availability in fertile grassland. 2010 , 48, 395	8
787	Autumn temperature and carbon balance of a boreal Scots pine forest in Southern Finland. 2010 , 7, 163-176	49
786	Simulating carbon and water cycles of larch forests in East Asia by the BIOME-BGC model with AsiaFlux data. 2010 , 7, 959-977	43
785	Warming alters the metabolic balance of ecosystems. 2010 , 365, 2117-26	259
784	Simulations show decreasing carbon stocks and potential for carbon emissions in Rocky Mountain forests over the next century. 2010 , 20, 1302-19	39
783	Estimating potential forest NPP, biomass and their climatic sensitivity in New England using a dynamic ecosystem model. 2010 , 1, art18	37

782	Reconstructing and modelling 71 years of forest growth in a Canadian boreal landscape: a test of the CBM-CFS3 carbon accounting model. 2010 , 40, 109-118	18
781	Why does phenology drive species distribution?. 2010 , 365, 3149-60	412
780	Influence of spring and autumn phenological transitions on forest ecosystem productivity. 2010 , 365, 3227-46	594
779	Satellite-Based Modeling of the Carbon Fluxes in Mature Black Spruce Forests in Alaska: A Synthesis of the Eddy Covariance Data and Satellite Remote Sensing Data. 2010 , 14, 1-27	9
778	Effect of regional climate warming on the phenology of butterflies in boreal forests in Manitoba, Canada. 2010 , 39, 1122-33	21
777	Surface temperature spatial and temporal variations in North America from homogenized satellite SMMR-SSM/I microwave measurements and reanalysis for 1979-2008. 2010 , 115,	39
776	Tundra carbon balance under varying temperature and moisture regimes. 2010 , 115,	45
775	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. 2010 , 115,	21
774	Climatic and phenological controls on coherent regional interannual variability of carbon dioxide flux in a heterogeneous landscape. 2010 , 115,	66
773	Differential responses to changes in growth temperature between trees from different functional groups and biomes: a review and synthesis of data. 2010 , 30, 669-88	539
772	Drought-induced reduction in global terrestrial net primary production from 2000 through 2009. 2010 , 329, 940-3	1686
771	Climate Warming-Induced Intensification of the Hydrologic Cycle: An Assessment of the Published Record and Potential Impacts on Agriculture. 2010 , 109, 1-53	37
770	Full Issue in PDF / Numéro complet en format PDF. 2010 , 36, ii-S400	
769	Alpine grassland degradation index and its response to recent climate variability in Northern Tibet, China. 2010 , 226, 143-150	87
768	Aridification determines changes in forest growth in <i>Pinus halepensis</i> forests under semiarid Mediterranean climate conditions. 2010 , 150, 614-628	78
767	Increase in aboveground fresh litter quantity over-stimulates soil respiration in a temperate deciduous forest. 2010 , 46, 26-34	53
766	Application of the ORCHIDEE global vegetation model to evaluate biomass and soil carbon stocks of Qinghai-Tibetan grasslands. 2010 , 24, n/a-n/a	92
765	Benchmarking coupled climate-carbon models against long-term atmospheric CO ₂ measurements. 2010 , 24, n/a-n/a	88

764	Long-Term Ecological Research. 2010 ,	28
763	Carbon Sequestration in Forest Ecosystems. 2010 ,	66
762	SpecNet revisited: bridging flux and remote sensing communities. 2010 , 36, S376-S390	49
761	Effects of solar UV radiation and climate change on biogeochemical cycling: interactions and feedbacks. 2011 , 10, 261-79	79
760	Ecological controls on net ecosystem productivity of a mesic arctic tundra under current and future climates. 2011 , 116,	35
759	Assessing and improving the representativeness of monitoring networks: The European flux tower network example. 2011 , 116,	24
758	Long-term direct CO ₂ flux measurements over a boreal lake: Five years of eddy covariance data. 2011 , 38, n/a-n/a	84
757	Principles of Terrestrial Ecosystem Ecology. 2011 ,	616
756	Hydrological, Socioeconomic and Ecological Impacts of the North Atlantic Oscillation in the Mediterranean Region. 2011 ,	20
755	A drought-induced pervasive increase in tree mortality across Canada's boreal forests. 2011 , 1, 467-471	535
754	Boreal pine forest floor biogenic volatile organic compound emissions peak in early summer and autumn. 2011 , 151, 682-691	91
753	Increasing net CO ₂ uptake by a Danish beech forest during the period from 1996 to 2009. 2011 , 151, 934-946	106
752	Assessing the effects of climate change on the phenology of European temperate trees. 2011 , 151, 969-980	234
751	Using digital repeat photography and eddy covariance data to model grassland phenology and photosynthetic CO ₂ uptake. 2011 , 151, 1325-1337	154
750	Diversity of leaf unfolding dynamics among tree species: New insights from a study along an altitudinal gradient. 2011 , 151, 1504-1513	37
749	Altitude and temperature dependence of change in the spring vegetation green-up date from 1982 to 2006 in the Qinghai-Xizang Plateau. 2011 , 151, 1599-1608	331
748	A comparison of multiple phenology data sources for estimating seasonal transitions in deciduous forest carbon exchange. 2011 , 151, 1741-1752	123
747	Contribution of climate change and rising CO ₂ to terrestrial carbon balance in East Asia: A multi-model analysis. 2011 , 75, 133-142	63

746	Importance of crop varieties and management practices: evaluation of a process-based model for simulating CO ₂ and H ₂ O fluxes at five European maize (<i>Zea mays</i> L.) sites. 2011 , 8, 1721-1736	19
745	Drought-associated changes in climate and their relevance for ecosystem experiments and models. 2011 , 8, 1121-1130	40
744	Climate Change Impacts on Water Quality and Quantity. 2011 , 24, 77-78	
743	Increasing potential NEP of eastern boreal North American forests constrained by decreasing wildfire activity. 2011 , 2, art25	15
742	Sources of variations in total column carbon dioxide. 2011 , 11, 3581-3593	117
741	Relationships between large-scale circulation patterns and carbon dioxide exchange by a deciduous forest. 2011 , 116,	4
740	Differential responses of production and respiration to temperature and moisture drive the carbon balance across a climatic gradient in New Mexico. 2011 , 17, 410-424	129
739	Evidence of increased net ecosystem productivity associated with a longer vegetated season in a deciduous forest in south-central Indiana, USA. 2011 , 17, 886-897	207
738	An inventory-based analysis of Canada's managed forest carbon dynamics, 1990 to 2008. 2011 , 17, 2227-2244	203
737	Changes in satellite-derived vegetation growth trend in temperate and boreal Eurasia from 1982 to 2006. 2011 , 17, 3228-3239	451
736	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. 2011 , 17, 3102-3114	49
735	Whole-system responses of experimental plant communities to climate extremes imposed in different seasons. 2011 , 189, 806-817	182
734	Leaf-out phenology of temperate woody plants: from trees to ecosystems. 2011 , 191, 926-941	353
733	Regional trends in terrestrial carbon exchange and their seasonal signatures. 2011 , 63, 328-339	30
732	Modelling the impact of nitrogen deposition, climate change and nutrient limitations on tree carbon sequestration in Europe for the period 1900-2050. 2011 , 159, 2289-99	60
731	Spatial variation and temporal instability in climate-growth relationships of sessile oak (<i>Quercus petraea</i> [Matt.] Liebl.) under temperate conditions. 2011 , 212, 1855-1871	58
730	Advances in first bloom dates and increased occurrences of yearly second blooms in eastern China since the 1960s: further phenological evidence of climate warming. 2011 , 26, 713-723	20
729	A primer for data assimilation with ecological models using Markov Chain Monte Carlo (MCMC). 2011 , 167, 599-611	60

728	Energy budget of the extreme Autumn 2006 in Europe. 2011 , 36, 1055-1066	5
727	North-Atlantic SST amplified recent wintertime European land temperature extremes and trends. 2011 , 36, 2113-2128	22
726	Carbon, Water, and Energy Exchanges of a Hybrid Poplar Plantation During the First Five Years Following Planting. 2011 , 14, 658-671	25
725	Born to cope with climate change? Experimentally manipulated hatching time does not affect duckling survival in the mallard <i>Anas platyrhynchos</i> . 2011 , 57, 505-516	11
724	The potential influence of seasonal climate variables on the net primary production of forests in eastern China. 2011 , 48, 1173-81	16
723	Evolution of hydrological and carbon cycles under a changing climate. 2011 , 25, 4093-4102	29
722	Modes of response to environmental change and the elusive empirical evidence for bet hedging. 2011 , 278, 1601-9	290
721	Decomposition and Ecosystem Carbon Budgets. 2011 , 183-228	13
720	Drought alters timing, quantity, and quality of wood formation in Scots pine. 2011 , 62, 2763-71	158
719	Evaluation of a Dynamic Global Vegetation Model using time series of satellite vegetation indices. 2011 ,	4
718	Dynamics of the larch taiga-permafrost coupled system in Siberia under climate change. 2011 , 6, 024003	31
717	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. 2011 , 108, 1240-5	352
716	The relationship of the phase and amplitude of the annual cycle of CO ₂ to phenological events. 2011 , 4, 213-226	4
715	Evaluation of a Global Vegetation Model using time series of satellite vegetation indices. 2011 , 4, 1103-1114	36
714	Understanding chilling responses in <i>Arabidopsis</i> seeds and their contribution to life history. 2012 , 367, 291-7	50
713	Modulation of physiological reflexes by pain: role of the locus coeruleus. 2012 , 6, 94	62
712	An observational study of the carbon-sink strength of East Asian subtropical evergreen forests. 2012 , 7, 044017	28
711	Drug discovery: Kill the messenger where it lives. <i>Nature</i> , 2012 , 488, 36-8	50.4 1

710	Robustness and uncertainty in terrestrial ecosystem carbon response to CMIP5 climate change projections. 2012 , 7, 044008	186
709	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. 2012 , 109, 8612-7	197
708	Functional factor analysis for periodic remote sensing data. 2012 , 6,	12
707	High sensitivity of the continental-weathering carbon dioxide sink to future climate change. 2012 , 2, 346-349	145
706	Divergent carbon dynamics under climate change in forests with diverse soils, tree species, and land use histories. 2012 , 3, art110	28
705	Climate extremes and grassland potential productivity. 2012 , 7, 035703	17
704	500 years of regional forest growth variability and links to climatic extreme events in Europe. 2012 , 7, 045705	48
703	Needle metabolome, freezing tolerance and gas exchange in Norway spruce seedlings exposed to elevated temperature and ozone concentration. 2012 , 32, 1102-12	34
702	Large-Scale Atmospheric Circulation Driving Extreme Climate Events in the Mediterranean and its Related Impacts. 2012 , 347-417	20
701	Extended leaf phenology and the autumn niche in deciduous forest invasions. <i>Nature</i> , 2012 , 485, 359-62	222
700	Modeling Waves of Extreme Temperature: The Changing Tails of Four Cities. 2012 , 107, 24-39	20
699	Seasonal variability of soil respiration in multiple ecosystems under the same physical-geographical environmental conditions in central Japan. 2012 , 8, 52-60	7
698	Regional drought-induced reduction in the biomass carbon sink of Canada's boreal forests. 2012 , 109, 2423-7	195
697	Measuring and modeling ecosystem photosynthesis and the carbon isotope composition of ecosystem-respired CO ₂ in three boreal coniferous forests. 2012 , 153, 165-176	31
696	The role of air and soil temperature in the seasonality of photosynthesis and transpiration in a boreal Scots pine ecosystem. 2012 , 156, 85-103	38
695	Trends in fall phenology across the deciduous forests of the Eastern USA. 2012 , 157, 96-105	70
694	Interannual variability of net carbon exchange is related to the lag between the end-dates of net carbon uptake and photosynthesis: Evidence from long records at two contrasting forest stands. 2012 , 164, 29-38	50
693	Interannual and spatial impacts of phenological transitions, growing season length, and spring and autumn temperatures on carbon sequestration: A North America flux data synthesis. 2012 , 92-93, 179-190	54

692	Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. <i>Nature</i> , 2012 , 488, 70-2	50.4	422
691	Terrestrial biosphere model performance for inter-annual variability of land-atmosphere CO ₂ exchange. 2012 , 18, 1971-1987		191
690	Thermal growing season and timing of biospheric carbon uptake across the Northern Hemisphere. 2012 , 26, n/a-n/a		52
689	Land surface phenology from optical satellite measurement and CO ₂ eddy covariance technique. 2012 , 117, n/a-n/a		83
688	Predicting deciduous forest carbon uptake phenology by upscaling FLUXNET measurements using remote sensing data. 2012 , 165, 127-135		45
687	Spring vegetation green-up date in China inferred from SPOT NDVI data: A multiple model analysis. 2012 , 165, 104-113		170
686	Influence of stand age on the magnitude and seasonality of carbon fluxes in Canadian forests. 2012 , 165, 136-148		67
685	Ectomycorrhizas and climate change. 2012 , 5, 73-84		52
684	Spatial modeling of the <i>Ulmus pumila</i> growing season in China's temperate zone. 2012 , 55, 656-664		6
683	Proceedings of the 2011, International Conference on Informatics, Cybernetics, and Computer Engineering (ICCE2011) November 19-20, 2011, Melbourne, Australia. 2012 ,		
682	Remote sensing of environmental change over China: A review. 2012 , 57, 2793-2801		46
681	The effects of warming-shifted plant phenology on ecosystem carbon exchange are regulated by precipitation in a semi-arid grassland. 2012 , 7, e32088		34
680	The impact of winter and spring temperatures on temperate tree budburst dates: results from an experimental climate manipulation. 2012 , 7, e47324		66
679	Seasonal response of grasslands to climate change on the Tibetan Plateau. 2012 , 7, e49230		47
678	An assessment of the carbon balance of Arctic tundra: comparisons among observations, process models, and atmospheric inversions. 2012 , 9, 3185-3204		221
677	Day and night warming have different effect on root lifespan. 2012 , 9, 375-384		25
676	Effects of climate variability and functional changes on the interannual variation of the carbon balance in a temperate deciduous forest. 2012 , 9, 13-28		43
675	An estimate of the terrestrial carbon budget of Russia using inventory-based, eddy covariance and inversion methods. 2012 , 9, 5323-5340		84

674	Earth science: The balance of the carbon budget. <i>Nature</i> , 2012 , 488, 35-6	50.4	10
673	Biomimetic molecular water splitting catalysts for hydrogen generation. 2012 , 37, 8787-8799		31
672	The gigatonne gap in China's carbon dioxide inventories. 2012 , 2, 672-675		395
671	Extension of the growing season due to delayed autumn over mid and high latitudes in North America during 1982-2006. 2012 , 21, 260-271		149
670	Landscape controls on the timing of spring, autumn, and growing season length in mid-Atlantic forests. 2012 , 18, 656-674		156
669	Inter-annual variability of ecosystem production in boreal jack pine forests (1975-2004) estimated from tree-ring data using CBM-CFS3. 2012 , 224, 111-123		19
668	Simulating net carbon budget of forest ecosystems and its response to climate change in northeastern China using improved FORCCHN. 2012 , 22, 29-41		12
667	Bayesian calibration of the Unified budburst model in six temperate tree species. 2012 , 56, 153-64		16
666	Timing of photoperiodic competency causes phenological mismatch in balsam poplar (<i>Populus balsamifera</i> L.). 2013 , 36, 116-27		52
665	Field and remotely sensed measures of soil and vegetation carbon and nitrogen across an urbanization gradient in the Boston metropolitan area. 2013 , 16, 593-616		28
664	Photosynthesis under stressful environments: An overview. 2013 , 51, 163-190		1031
663	Interannual variation in seasonal drivers of soil respiration in a semi-arid Rocky Mountain meadow. 2013 , 113, 683-697		26
662	The global NPP dependence on ENSO: La Niña and the extraordinary year of 2011. 2013 , 118, 1247-1255		82
661	High temperature causes negative whole-plant carbon balance under mild drought. 2013 , 200, 330-339		86
660	Does the integration of the dynamic nitrogen cycle in a terrestrial biosphere model improve the long-term trend of the leaf area index?. 2013 , 40, 2535-2548		7
659	Spatiotemporal variation in alpine grassland phenology in the Qinghai-Tibetan Plateau from 1999 to 2009. 2013 , 58, 396-405		100
658	NDVI-based vegetation changes and their responses to climate change from 1982 to 2011: A case study in the Koshi River Basin in the middle Himalayas. 2013 , 108, 139-148		107
657	Cellular Aspects of Wood Formation. 2013 ,		19

656	Spatial and temporal validation of the MODIS LAI and FPAR products across a boreal forest wildfire chronosequence. 2013 , 133, 71-84	97
655	Phenology: An Integrative Environmental Science. 2013 ,	64
654	Retrospect and prospect of Geographical Sciences in China: A comparison with the Strategic Directions for Geography in the USA. 2013 , 23, 963-977	2
653	Evidence of autumn phenology control on annual net ecosystem productivity in two temperate deciduous forests. 2013 , 60, 88-95	38
652	Large-scale variations in the vegetation growing season and annual cycle of atmospheric CO ₂ at high northern latitudes from 1950 to 2011. 2013 , 19, 3167-83	206
651	Using FLUXNET data to improve models of springtime vegetation activity onset in forest ecosystems. 2013 , 171-172, 46-56	79
650	Effect of sampling effort on the regional chronology statistics and climate-growth relationships estimation. 2013 , 31, 58-67	39
649	Positive impacts of precipitation intensity on monthly CO ₂ fluxes in North America. 2013 , 100, 204-214	9
648	Sensitivity of leaf unfolding to experimental warming in three temperate tree species. 2013 , 181, 125-132	60
647	Net CO ₂ exchange and carbon budgets of a three-year crop rotation following conversion of perennial lands to annual cropping in Manitoba, Canada. 2013 , 182-183, 67-75	18
646	Use of change-point detection for friction-velocity threshold evaluation in eddy-covariance studies. 2013 , 171-172, 31-45	102
645	Shedding some light on cold acclimation, cold adaptation, and phenotypic plasticity. 2013 , 91, 127-136	44
644	Predicting species-specific responses of fungi to climatic variation using historical records. 2013 , 19, 3145-54	38
643	Changes in satellite-derived spring vegetation green-up date and its linkage to climate in China from 1982 to 2010: a multimethod analysis. 2013 , 19, 881-91	215
642	Wood Formation Under Drought Stress and Salinity. 2013 , 187-202	12
641	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. 2013 , 22, 994-1006	106
640	Modeling Soil and Biomass Carbon Responses to Declining Water Table in a Wetland-Rich Landscape. 2013 , 16, 491-507	20
639	CO ₂ emissions from land-use change affected more by nitrogen cycle, than by the choice of land-cover data. 2013 , 19, 2893-906	102

638	Deriving a new phenological indicator of interannual net carbon exchange in contrasting boreal deciduous and evergreen forests. 2013 , 24, 113-119	10
637	Climate change, phenology, and phenological control of vegetation feedbacks to the climate system. 2013 , 169, 156-173	1121
636	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO2 trends. 2013 , 19, 2117-32	481
635	Earlier springs decrease peak summer productivity in North American boreal forests. 2013 , 8, 024027	119
634	Vegetation cover variation in the Qilian Mountains and its response to climate change in 2000-2011. 2013 , 10, 1050-1062	48
633	NDVI, temperature and precipitation changes and their relationships with different vegetation types during 1998-2007 in Inner Mongolia, China. 2013 , 33, 1696-1706	167
632	On the variation of regional CO2 exchange over temperate and boreal North America. 2013 , 27, 991-1000	9
631	Accelerating carbon uptake in the Northern Hemisphere: evidence from the interhemispheric difference of atmospheric CO2 concentrations. 2013 , 65, 20334	4
630	Carbohydrate concentrations and freezing stress resistance of silver birch buds grown under elevated temperature and ozone. 2013 , 33, 311-9	10
629	Atmospheric science. A hyperventilating biosphere. 2013 , 341, 1075-6	4
628	Phenology and carbon dioxide source/sink strength of a subalpine grassland in response to an exceptionally short snow season. 2013 , 8, 025008	76
627	Climate forcing growth rates: doubling down on our Faustian bargain. 2013 , 8, 011006	28
626	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. 2013 , 26, 4447-4475	45
625	Projecting terrestrial carbon sequestration of the southeastern United States in the 21st century. 2013 , 4, art88	12
624	Analysis of forest fires in Northeast China from 2003 to 2011. 2013 , 34, 8235-8251	12
623	Can we model observed soil carbon changes from a dense inventory? A case study over England and Wales using three versions of orchidee ecosystem model (AR5, AR5-PRIM and O-CN). 2013 ,	0
622	Consequences of climate change for biotic disturbances in North American forests. 2013 , 83, 441-470	275
621	Biogeochemistry - Pages 491-664. 2013 , 491-664	

620	Change in snow phenology and its potential feedback to temperature in the Northern Hemisphere over the last three decades. 2013 , 8, 014008	91
619	The covariation of Northern Hemisphere summertime CO ₂ with surface temperature in boreal regions. 2013 , 13, 9447-9459	37
618	Quantifying the constraint of biospheric process parameters by CO ₂ concentration and flux measurement networks through a carbon cycle data assimilation system. 2013 , 13, 10555-10572	16
617	Effects of seasonal variation of photosynthetic capacity on the carbon fluxes of a temperate deciduous forest. 2013 , 118, 1703-1714	35
616	Tradeoffs between global warming and day length on the start of the carbon uptake period in seasonally cold ecosystems. 2013 , 40, 6136-6142	12
615	Recent climate and fire disturbance impacts on boreal and arctic ecosystem productivity estimated using a satellite-based terrestrial carbon flux model. 2013 , 118, 606-622	26
614	Carbon evasion/accumulation ratio in boreal lakes is linked to nitrogen. 2013 , 27, 363-374	51
613	Simulating boreal forest carbon dynamics after stand-replacing fire disturbance: insights from a global process-based vegetation model. 2013 , 10, 8233-8252	11
612	Can we model observed soil carbon changes from a dense inventory? A case study over England and Wales using three versions of the ORCHIDEE ecosystem model (AR5, AR5-PRIM and O-CN). 2013 , 6, 2153-2163	11
611	Global Warming: An Econometric Analysis. 2013 ,	0
610	Assessing Performance of NDVI and NDVI3g in Monitoring Leaf Unfolding Dates of the Deciduous Broadleaf Forest in Northern China. 2013 , 5, 845-861	30
609	Record-breaking early flowering in the eastern United States. 2013 , 8, e53788	102
608	Estimating carbon flux phenology with satellite-derived land surface phenology and climate drivers for different biomes: a synthesis of AmeriFlux observations. 2013 , 8, e84990	7
607	Improved simulation of regional CO ₂ surface concentrations using GEOS-Chem and fluxes from VEGAS. 2013 , 13, 7607-7618	7
606	Earlier-season vegetation has greater temperature sensitivity of spring phenology in northern hemisphere. 2014 , 9, e88178	72
605	Interannual variation in carbon sequestration depends mainly on the carbon uptake period in two croplands on the North China Plain. 2014 , 9, e110021	8
604	Evaluation of Multiple Spring Phenological Indicators of Yearly GPP and NEP at Three Canadian Forest Sites. 2014 , 6, 1991-2007	0
603	Spatial and Temporal Variability in the Onset of the Growing Season on Svalbard, Arctic Norway □ Measured by MODIS-NDVI Satellite Data. 2014 , 6, 8088-8106	31

602	Changes in Spring Phenology in the Three-Rivers Headwater Region from 1999 to 2013. 2014 , 6, 9130-9144	19
601	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. 2014 , 11, 3547-3602	136
600	Delayed responses of an Arctic ecosystem to an extreme summer: impacts on net ecosystem exchange and vegetation functioning. 2014 , 11, 5877-5888	20
599	Analysing the spatio-temporal impacts of the 2003 and 2010 extreme heatwaves on plant productivity in Europe. 2014 , 11, 3421-3435	67
598	Spring hydrology determines summer net carbon uptake in northern ecosystems. 2014 , 9, 064003	20
597	A Model for Nighttime Minimum Temperatures. 2014 , 27, 7207-7229	8
596	Field and controlled environment measurements show strong seasonal acclimation in photosynthesis and respiration potential in boreal Scots pine. 2014 , 5, 717	39
595	Phenology and its role in carbon dioxide exchange processes in northern peatlands. 2014 , 119, 1370-1384	16
594	Autumn warming reduces the CO ₂ sink of a black spruce forest in interior Alaska based on a nine-year eddy covariance measurement. 2014 , 20, 1161-73	55
593	Spatial-temporal variability of terrestrial vegetation productivity in the Yangtze River Basin during 2000-2009. 2014 , 7, 10-23	17
592	Effects of land use/land cover and climate changes on terrestrial net primary productivity in the Yangtze River Basin, China, from 2001 to 2010. 2014 , 119, 1092-1109	69
591	Precipitation and net ecosystem exchange are the most important drivers of DOC flux in upland boreal catchments. 2014 , 119, 1861-1878	23
590	Investigating bias in the application of curve fitting programs to atmospheric time series. 2014 ,	1
589	Modeling and Monitoring Terrestrial Primary Production in a Changing Global Environment: Toward a Multiscale Synthesis of Observation and Simulation. 2014 , 2014, 1-17	45
588	Plant functional types define magnitude of drought response in peatland CO ₂ exchange. 2014 , 95, 123-31	63
587	Toward consistent measurements of carbon accumulation: A multi-site assessment of biomass and basal area increment across Europe. 2014 , 32, 153-161	64
586	Frequency of inversions affects senescence phenology of <i>Acer pseudoplatanus</i> and <i>Fagus sylvatica</i> . 2014 , 58, 485-98	18
585	Anthropogenic and natural causes of climate change. 2014 , 122, 257-269	106

584	Combined effects of rising [CO ₂] and temperature on boreal forests: growth, physiology and limitations. 2014 , 92, 425-436		37
583	Comparison of net ecosystem CO ₂ exchange in cropland and grassland with an automated closed chamber system. 2014 , 98, 113-124		9
582	Modeling growing season phenology in North American forests using seasonal mean vegetation indices from MODIS. 2014 , 147, 79-88		91
581	Terrestrial carbon cycle affected by non-uniform climate warming. 2014 , 7, 173-180		149
580	Chilling outweighs photoperiod in preventing precocious spring development. 2014 , 20, 170-82		233
579	Using satellite based soil moisture to quantify the water driven variability in NDVI: A case study over mainland Australia. 2014 , 140, 330-338		174
578	Deriving Vegetation Phenological Time and Trajectory Information Over Africa Using SEVIRI Daily LAI. 2014 , 52, 1113-1130		35
577	Biogeochemistry: agriculture and the global carbon cycle. <i>Nature</i> , 2014 , 515, 351-2	50.4	12
576	Direct human influence on atmospheric CO ₂ seasonality from increased cropland productivity. <i>Nature</i> , 2014 , 515, 398-401	50.4	97
575	Model for microwave emission of a snow-covered ground with focus on L band. 2014 , 154, 180-191		46
574	Linking satellite-based spring phenology to temperate deciduous broadleaf forest photosynthesis activity. 2014 , 7, 881-896		5
573	Recent spring phenology shifts in western Central Europe based on multiscale observations. 2014 , 23, 1255-1263		143
572	The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange. 2014 , 152, 375-391		231
571	The emerging anthropogenic signal in land-atmosphere carbon-cycle coupling. 2014 , 4, 796-800		21
570	Modeling and predicting spring land surface phenology of the deciduous broadleaf forest in northern China. 2014 , 198-199, 33-41		23
569	Sensitivity of colour indices for discriminating leaf colours from digital photographs. 2014 , 5, 1078-1085		17
568	The effect of fire disturbance on short-term soil respiration in typical forest of Greater Xing'an Range, China. 2014 , 25, 613-620		8
567	Net terrestrial CO ₂ exchange over China during 2001-2010 estimated with an ensemble data assimilation system for atmospheric CO ₂ . 2014 , 119, 3500-3515		33

566	Tree leaf out response to temperature: comparing field observations, remote sensing, and a warming experiment. 2014 , 58, 1251-7	14
565	Development of satellite green vegetation fraction time series for use in mesoscale modeling: application to the European heat wave 2006. 2014 , 117, 377-392	8
564	Interactive biotic and abiotic regulators of soil carbon cycling: evidence from controlled climate experiments on peatland and boreal soils. 2014 , 20, 2971-82	48
563	Variation in leaf flushing date influences autumnal senescence and next year's flushing date in two temperate tree species. 2014 , 111, 7355-60	178
562	How seasonal temperature or water inputs affect the relative response of C3 crops to elevated [CO ₂]: a global analysis of open top chamber and free air CO ₂ enrichment studies. 2014 , 3, 33-45	49
561	Long-term variability and environmental control of the carbon cycle in an oak-dominated temperate forest. 2014 , 313, 319-328	40
560	Eight years of forest-floor CO ₂ exchange in a boreal black spruce forest: Spatial integration and long-term temporal trends. 2014 , 184, 25-35	22
559	Net carbon uptake has increased through warming-induced changes in temperate forest phenology. 2014 , 4, 598-604	442
558	Joint data assimilation of satellite reflectance and net ecosystem exchange data constrains ecosystem carbon fluxes at a high-elevation subalpine forest. 2014 , 195-196, 73-88	15
557	High-resolution stable carbon isotope monitoring indicates variable flow dynamic patterns in a deep saline aquifer at the Ketzin pilot site (Germany). 2014 , 47, 44-51	7
556	Forest Ecosystem as a Source of Co ₂ During Growing Season: Relation to Weather Conditions. 2014 , 28, 239-249	2
555	Impacts of climate change on net primary productivity of grasslands in Inner Mongolia. 2014 , 36, 493	9
554	Terrestrial hydrological controls on land surface phenology of African savannas and woodlands. 2014 , 119, 1652-1669	101
553	Relationship between leaf physiologic traits and canopy color indices during the leaf expansion period in an oak forest. 2015 , 6, art259	16
552	Optical Remote Sensing of Tree and Stand Heights. 2015 , 485-522	2
551	Analysis of CO ₂ mole fraction data: first evidence of large-scale changes in CO ₂ uptake at high northern latitudes. 2015 , 15, 13739-13758	18
550	Seasonality of soil moisture mediates responses of ecosystem phenology to elevated CO ₂ and warming in a semi-arid grassland. 2015 , 103, 1119-1130	41
549	Antecedent moisture and temperature conditions modulate the response of ecosystem respiration to elevated CO ₂ and warming. 2015 , 21, 2588-2602	38

548	Temperature sensitivity as an explanation of the latitudinal pattern of green-up date trend in Northern Hemisphere vegetation during 1982-2008. 2015 , 35, 3707-3712	31
547	Using satellite data to improve the leaf phenology of a global terrestrial biosphere model. 2015 , 12, 7185-7208	66
546	Interpreting canopy development and physiology using a European phenology camera network at flux sites. 2015 , 12, 5995-6015	77
545	Recent changes in the global and regional carbon cycle: analysis of first-order diagnostics. 2015 , 12, 835-844	7
544	Coincidences of climate extremes and anomalous vegetation responses: comparing tree ring patterns to simulated productivity. 2015 , 12, 373-385	60
543	Influence of Low Frequency Variability on Climate and Carbon Fluxes in a Temperate Pine Forest in Eastern Canada. 2015 , 6, 2762-2784	3
542	Changes in autumn senescence in northern hemisphere deciduous trees: a meta-analysis of autumn phenology studies. 2015 , 116, 875-88	151
541	Comparison between remote sensing and a dynamic vegetation model for estimating terrestrial primary production of Africa. 2015 , 10, 8	24
540	Warming delays autumn declines in photosynthetic capacity in a boreal conifer, Norway spruce (<i>Picea abies</i>). 2015 , 35, 1303-13	27
539	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. 2015 , 112, 15591-6	69
538	Multifrequency microwave vegetation indexes for estimating vegetation biomass. 2015 ,	
537	Impact of changes in GRACE derived terrestrial water storage on vegetation growth in Eurasia. 2015 , 10, 124024	16
536	Alternate wetting and drying irrigation-mediated changes in the growth, photosynthesis and yield of the medicinal plant <i>Tulipa edulis</i> . 2015 , 66, 81-88	28
535	Land surface temperature retrieval over circumpolar Arctic using SSM/I/BSMIS and MODIS data. 2015 , 162, 1-10	42
534	Temperature and geographic attribution of change in the <i>Taraxacum mongolicum</i> growing season from 1990 to 2009 in eastern China's temperate zone. 2015 , 59, 1437-52	10
533	Analysis of spatial and temporal patterns of net primary production and their climate controls in China from 1982 to 2010. 2015 , 204, 22-36	126
532	Diurnal, seasonal, and annual trends in atmospheric CO ₂ at southwest London during 2000-2012: Wind sector analysis and comparison with Mace Head, Ireland. 2015 , 105, 138-147	26
531	Changes in autumn vegetation dormancy onset date and the climate controls across temperate ecosystems in China from 1982 to 2010. 2015 , 21, 652-65	123

530	Increased heat requirement for leaf flushing in temperate woody species over 1980-2012: effects of chilling, precipitation and insolation. 2015 , 21, 2687-2697	103
529	Autumn, the neglected season in climate change research. 2015 , 30, 169-76	268
528	Photoperiod constraints on tree phenology, performance and migration in a warming world. 2015 , 38, 1725-36	193
527	Climatic patterns modulate ecosystem and soil respiration responses to fertilization in an alpine meadow on the Tibetan Plateau, China. 2015 , 30, 3-13	21
526	Stable carbon isotope analysis reveals widespread drought stress in boreal black spruce forests. 2015 , 21, 3102-13	81
525	Temperature alone does not explain phenological variation of diverse temperate plants under experimental warming. 2015 , 21, 3138-51	47
524	Response of radial growth to warming and CO ₂ enrichment in southern Northeast China: a case of <i>Pinus tabulaeformis</i> . 2015 , 130, 559-571	9
523	Land-atmosphere carbon and water flux relationships to vapor pressure deficit, soil moisture, and stream flow. 2015 , 208, 108-117	16
522	Evolution and variation of atmospheric carbon dioxide concentration over terrestrial ecosystems as derived from eddy covariance measurements. 2015 , 114, 75-82	27
521	Trends of carbon fluxes and climate over a mixed temperate-boreal transition forest in southern Ontario, Canada. 2015 , 211-212, 72-84	39
520	Environmental control over seasonal variation in carbon fluxes of an urban temperate forest ecosystem. 2015 , 142, 63-70	13
519	Investigating bias in the application of curve fitting programs to atmospheric time series. 2015 , 8, 1469-1489	23
518	Phenology of leaf morphological, photosynthetic, and nitrogen use characteristics of canopy trees in a cool-temperate deciduous broadleaf forest at Takayama, central Japan. 2015 , 30, 247-266	25
517	Observed cold season changes in a Fennoscandian fell area over the past three decades. 2015 , 44, 214-25	14
516	Substantial variation in leaf senescence times among 1360 temperate woody plant species: implications for phenology and ecosystem processes. 2015 , 116, 865-73	56
515	Zeaxanthin-independent energy quenching and alternative electron sinks cause a decoupling of the relationship between the photochemical reflectance index (PRI) and photosynthesis in an evergreen conifer during spring. 2015 , 66, 7309-23	27
514	Seasonally different response of photosynthetic activity to daytime and night-time warming in the Northern Hemisphere. 2015 , 21, 377-87	48
513	Plant phenological responses to climate change on the Tibetan Plateau: research status and challenges. 2015 , 2, 454-467	99

512	Assessing CO ₂ sink/source strength of a degraded temperate peatland: atmospheric and hydrological drivers and responses to extreme events. 2015 , 8, 1429-1445	6
511	Radiation contributed more than temperature to increased decadal autumn and annual carbon uptake of two eastern North America mature forests. 2015 , 201, 8-16	16
510	Detection and attribution of vegetation greening trend in China over the last 30 years. 2015 , 21, 1601-9	373
509	An improved logistic method for detecting spring vegetation phenology in grasslands from MODIS EVI time-series data. 2015 , 200, 9-20	73
508	Climate warming alters nitrogen dynamics and total non-structural carbohydrate accumulations of perennial herbs of distinctive functional groups during the plant senescence in autumn in an alpine meadow of the Tibetan Plateau, China. 2015 , 200, 21-29	30
507	Projections of leaf area index in earth system models. 2016 , 7, 211-229	65
506	Desertification in Forest, Range and Desert Landuses of Tehran Province, Under the Impact of Climate Change. 2016 ,	
505	Desertification of forest, range and desert in Tehran province, affected by climate change. 2016 , 7, 905-915	27
504	The influence of meteorology and phenology on net ecosystem exchange in an eastern Siberian boreal larch forest. 2016 , 9, 520-530	5
503	Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era. 2016 ,	
502	Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era. 2016 , 7, 717-734	8
501	Human Impact on Vegetation Dynamics around Lhasa, Southern Tibetan Plateau, China. 2016 , 8, 1146	27
500	Carbon CycleClimate Feedbacks. 563-593	
499	Pan-Eurasian Experiment (PEEX): Towards holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the Northern Eurasian region. 2016 ,	2
498	The hidden season: growing season is 50% longer below than above ground along an arctic elevation gradient. 2016 , 209, 978-86	67
497	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. 2016 , 22, 2165-77	57
496	Unchanged carbon balance driven by equivalent responses of production and respiration to climate change in a mixed-grass prairie. 2016 , 22, 1857-66	30
495	Estimation of net ecosystem production in Asia using the diagnostic-type ecosystem model with a 10 km grid-scale resolution. 2016 , 121, 1484-1502	6

494	Seasonal divergence in the interannual responses of Northern Hemisphere vegetation activity to variations in diurnal climate. 2016 , 6, 19000	21
493	Nonlinear vegetation phenology shifts over northern China during 1982-2006. 2016 ,	
492	Earlier snowmelt reduces atmospheric carbon uptake in midlatitude subalpine forests. 2016 , 43, 8160-8168	41
491	Biogenic fluxes of carbon dioxide in the old-growth spruce forest in the middle taiga: Results of eddy covariance measurements. 2016 , 9, 873-883	1
490	Decadal trends in the seasonal-cycle amplitude of terrestrial CO ₂ exchange resulting from the ensemble of terrestrial biosphere models. 2016 , 68, 28968	24
489	Responses of sequential and hierarchical phenological events to warming and cooling in alpine meadows. 2016 , 7, 12489	39
488	Regional-scale winter wheat phenology monitoring using multisensor spatio-temporal fusion in a South Central China growing area. 2016 , 10, 046029	9
487	Constraining future terrestrial carbon cycle projections using observation-based water and carbon flux estimates. 2016 , 22, 2198-215	36
486	Spatial and temporal variability in dendroclimatic growth response of red pine (<i>Pinus resinosa</i> Ait.) to climate in northern Ontario, Canada. 2016 , 372, 109-119	13
485	Spatio-temporal patterns of satellite-derived grassland vegetation phenology from 1998 to 2012 in Inner Mongolia, China. 2016 , 8, 462-477	22
484	Global NPP and straw bioenergy trends for 2000-2014. 2016 , 90, 230-236	18
483	Extreme warm temperatures alter forest phenology and productivity in Europe. 2016 , 563-564, 486-95	40
482	Changing temperature response of respiration turns boreal forest from carbon sink into carbon source. 2016 , 223, 30-38	25
481	Temperature sensitivity thresholds to warming and cooling in phenophases of alpine plants. 2016 , 139, 579-590	6
480	Emerging opportunities and challenges in phenology: a review. 2016 , 7, e01436	144
479	Projected land photosynthesis constrained by changes in the seasonal cycle of atmospheric CO ₂ . <i>Nature</i> , 2016 , 538, 499-501	50.4 99
478	Slow ecosystem responses conditionally regulate annual carbon balance over 15 years in Californian oak-grass savanna. 2016 , 228-229, 252-264	40
477	Three times greater weight of daytime than of night-time temperature on leaf unfolding phenology in temperate trees. 2016 , 212, 590-597	52

476	Vertical and seasonal dynamics of fungal communities in boreal Scots pine forest soil. 2016 , 92,	55
475	Seasonal and inter-annual variations in CO ₂ fluxes over 10 years in an alpine shrubland on the Qinghai-Tibetan Plateau, China. 2016 , 228-229, 95-103	46
474	Effects of long-term olive mill wastewater spreading on the physiological and biochemical responses of adult Chemlali olive trees (<i>Olea europaea</i> L.). 2016 , 97, 122-129	30
473	Canopy skin temperature variations in relation to climate, soil temperature, and carbon flux at a ponderosa pine forest in central Oregon. 2016 , 226-227, 161-173	44
472	Multifrequency microwave emission for estimating optical depth and vegetation biomass. 2016 ,	1
471	European land CO ₂ sink influenced by NAO and East-Atlantic Pattern coupling. 2016 , 7, 10315	54
470	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO ₂ and greening observations. 2016 , 43, 11,339	23
469	Earlier springs are causing reduced nitrogen availability in North American eastern deciduous forests. 2016 , 2, 16133	33
468	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. 2016 , 16, 14421-14461	43
467	Increasing summer net CO ₂ uptake in high northern ecosystems inferred from atmospheric inversions and comparisons to remote-sensing NDVI. 2016 , 16, 9047-9066	25
466	Decadal drought deaccelerated the increasing trend of annual net primary production in tropical or subtropical forests in southern China. 2016 , 6, 28640	8
465	Temperature, precipitation, and insolation effects on autumn vegetation phenology in temperate China. 2016 , 22, 644-55	184
464	Decrease in winter respiration explains 25% of the annual northern forest carbon sink enhancement over the last 30 years. 2016 , 25, 586-595	14
463	Self-regenerating environmental absorption efficiency and the (varvec{ soylent~green~scenario}). 2016 , 238, 179-198	4
462	Spatial heterogeneity of soil respiration in a <i>Larix gmelinii</i> forest and the response to prescribed fire in the Greater Xing'an Mountains, China. 2016 , 27, 1153-1162	6
461	Satellite-observed changes in terrestrial vegetation growth trends across the Asia-Pacific region associated with land cover and climate from 1982 to 2011. 2016 , 9, 1055-1076	9
460	Ecosystem response more than climate variability drives the inter-annual variability of carbon fluxes in three Chinese grasslands. 2016 , 225, 48-56	15
459	Driving force and changing trends of vegetation phenology in the Loess Plateau of China from 2000 to 2010. 2016 , 13, 844-856	18

458	Continuous measurement of soil carbon efflux with Forced Diffusion (FD) chambers in a tundra ecosystem of Alaska. 2016 , 566-567, 175-184	10
457	Detecting regional patterns of changing CO2 flux in Alaska. 2016 , 113, 7733-8	29
456	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. 2016 , 22, 3702-3711	199
455	Dynamic responses of atmospheric carbon dioxide concentration to global temperature changes between 1850 and 2010. 2016 , 33, 247-258	7
454	Quantifying distribution in carbon uptake and environmental measurements with the Gini coefficient. 2016 , 3, 1-12	2
453	Evaluating the impacts of climate variability and cutting and insect defoliation on the historical carbon dynamics of a boreal black spruce forest landscape in eastern Canada. 2016 , 321, 98-109	2
452	Climate and wood quality have decayer-specific effects on fungal wood decomposition. 2016 , 360, 341-351	19
451	Remotely sensed assessment of urbanization effects on vegetation phenology in China's 32 major cities. 2016 , 176, 272-281	132
450	Tamm Review: Observed and projected climate change impacts on Russia's forests and its carbon balance. 2016 , 361, 432-444	75
449	Thermal growing season and response of alpine grassland to climate variability across the Three-Rivers Headwater Region, China. 2016 , 220, 30-37	14
448	Latitudinal gradient of spruce forest understory and tundra phenology in Alaska as observed from satellite and ground-based data. 2016 , 177, 160-170	38
447	Sources of bias and variability in long-term Landsat time series over Canadian boreal forests. 2016 , 177, 206-219	42
446	Pollution accumulation and abatement policy in a supply chain. 2016 , 248, 982-996	47
445	Global warming-related tree growth decline and mortality on the north-eastern Tibetan plateau. 2016 , 134, 163-176	106
444	Seasonally varied controls of climate and phenophase on terrestrial carbon dynamics: modeling eco-climate system state using Dynamical Process Networks. 2016 , 31, 165-180	14
443	Impacts of climate change on net primary productivity in arid and semiarid regions of China. 2016 , 26, 35-47	31
442	Asymmetric Diurnal and Monthly Responses of Ecosystem Carbon Fluxes to Experimental Warming. 2017 , 45, 1600557	9
441	Long term trend and interannual variability of land carbon uptake—the attribution and processes. 2017 , 12, 014018	22

440	Direct and indirect climate change effects on carbon dioxide fluxes in a thawing boreal forest-wetland landscape. 2017 , 23, 3231-3248	40
439	Changes in vegetation phenology are not reflected in atmospheric CO and C/ C seasonality. 2017 , 23, 4029-4044	14
438	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. 2017 , 7, 359-363	107
437	Detecting spatiotemporal changes of peak foliage coloration in deciduous and mixed forests across the Central and Eastern United States. 2017 , 12, 024013	15
436	Temporal coherence of phenological and climatic rhythmicity in Beijing. 2017 , 61, 1733-1748	6
435	Carbon dioxide sources from Alaska driven by increasing early winter respiration from Arctic tundra. 2017 , 114, 5361-5366	115
434	Substantial inorganic carbon sink in closed drainage basins globally. 2017 , 10, 501-506	22
433	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. 2017 , 23, 4854-4872	95
432	Seasonal Responses of Terrestrial Carbon Cycle to Climate Variations in CMIP5 Models: Evaluation and Projection. 2017 , 30, 6481-6503	9
431	Greenhouse gas mitigation potential of annual and perennial dairy feed crop systems. 2017 , 245, 52-62	4
430	Spatiotemporal patterns of vegetation phenology change and relationships with climate in the two transects of East China. 2017 , 10, 206-219	26
429	Integrating interactive effects of chilling and photoperiod in phenological process-based models. A case study with two European tree species: <i>Fagus sylvatica</i> and <i>Quercus petraea</i> . 2017 , 244-245, 9-20	22
428	. 2017 , 10, 3861-3873	10
427	Past and future effects of climate change on spatially heterogeneous vegetation activity in China. 2017 , 5, 679-692	31
426	Autumn photosynthetic decline and growth cessation in seedlings of white spruce are decoupled under warming and photoperiod manipulations. 2017 , 40, 1296-1316	19
425	Temporal patterns of CO and CH in a rural area in northern Spain described by a harmonic equation over 2010-2016. 2017 , 593-594, 1-9	8
424	Impact of elevated temperatures on specific leaf weight, stomatal density, photosynthesis and chlorophyll fluorescence in soybean. 2017 , 131, 333-350	61
423	Experimental warming drives a seasonal shift of ecosystem carbon exchange in Tibetan alpine meadow. 2017 , 233, 242-249	33

422	Response of vegetation phenology to urbanization in the conterminous United States. 2017 , 23, 2818-2830	85
421	Gross primary production responses to warming, elevated CO ₂ , and irrigation: quantifying the drivers of ecosystem physiology in a semiarid grassland. 2017 , 23, 3092-3106	25
420	Grassland gross carbon dioxide uptake based on an improved model tree ensemble approach considering human interventions: global estimation and covariation with climate. 2017 , 23, 2720-2742	17
419	Onset of drying and dormancy in relation to water dynamics of semi-arid grasslands from MODIS NDWI. 2017 , 234-235, 22-30	12
418	Forecasting tree growth in coppiced and high forests in the Czech Republic. The legacy of management drives the coming <i>Quercus petraea</i> climate responses. 2017 , 405, 56-68	22
417	Early snowmelt significantly enhances boreal springtime carbon uptake. 2017 , 114, 11081-11086	59
416	Interannual variability of ecosystem carbon exchange: From observation to prediction. 2017 , 26, 1225-1237	42
415	Present-day and future contribution of climate and fires to vegetation composition in the boreal forest of China. 2017 , 8, e01917	17
414	Can weather generation capture precipitation patterns across different climates, spatial scales and under data scarcity?. 2017 , 7, 5449	26
413	High growth temperatures and high soil nitrogen do not alter differences in CO ₂ assimilation between invasive <i>Phalaris arundinacea</i> (reed canarygrass) and <i>Carex stricta</i> (tussock sedge). 2017 , 104, 999-1007	1
412	Photosynthetic capacity of senescent leaves for a subtropical broadleaf deciduous tree species <i>Liquidambar formosana</i> Hance. 2017 , 7, 6323	6
411	Warming in Spring and Summer Lessens Carbon Accumulation over the Past Century in Temperate Wetlands of Northeast China. 2017 , 37, 829-836	2
410	Asymmetric Responses of the End of Growing Season to Daily Maximum and Minimum Temperatures on the Tibetan Plateau. 2017 , 122, 13,278-13,287	21
409	Reduced North American terrestrial primary productivity linked to anomalous Arctic warming. 2017 , 10, 572-576	37
408	Characterizing spatiotemporal dynamics in phenology of urban ecosystems based on Landsat data. 2017 , 605-606, 721-734	28
407	Seasonal vegetation response to climate change in the Northern Hemisphere (1982–2013). 2017 , 148, 1-8	81
406	Reconciliation of top-down and bottom-up CO ₂ fluxes in Siberian larch forest. 2017 , 12, 125012	9
405	Vegetation greenness and land carbon-flux anomalies associated with climate variations: a focus on the year 2015. 2017 , 17, 13903-13919	13

404	Effects of Competition, Drought Stress and Photosynthetic Productivity on the Radial Growth of White Spruce in Western Canada. 2017 , 8, 1915	16
403	A 33-Year NPP Monitoring Study in Southwest China by the Fusion of Multi-Source Remote Sensing and Station Data. 2017 , 9, 1082	14
402	Spatial and temporal changes in leaf coloring date of <i>Acer palmatum</i> and <i>Ginkgo biloba</i> in response to temperature increases in South Korea. 2017 , 12, e0174390	11
401	Nutrient addition shifts plant community composition towards earlier flowering species in some prairie ecoregions in the U.S. Central Plains. 2017 , 12, e0178440	8
400	Effects of fire disturbance on soil respiration in the non-growing season in a <i>Larix gmelinii</i> forest in the Daxing'an Mountains, China. 2017 , 12, e0180214	3
399	Past and future influence of climate change on spatially heterogeneous vegetation activity in China. 2017 ,	1
398	Temporal Changes in Coupled Vegetation Phenology and Productivity are Biome-Specific in the Northern Hemisphere. 2017 , 9, 1277	14
397	Warmer temperatures reduce net carbon uptake, but do not affect water use, in a mature southern Appalachian forest. 2018 , 252, 269-282	28
396	Antagonistic effects of growing season and autumn temperatures on the timing of leaf coloration in winter deciduous trees. 2018 , 24, 3537-3545	26
395	What can we learn from multi-data calibration of a process-based ecohydrological model?. 2018 , 101, 301-316	33
394	Changes in the Response of the Northern Hemisphere Carbon Uptake to Temperature Over the Last Three Decades. 2018 , 45, 4371-4380	17
393	21st century tundra shrubification could enhance net carbon uptake of North America Arctic tundra under an RCP8.5 climate trajectory. 2018 , 13, 054029	20
392	Biological and climate factors co-regulated spatial-temporal dynamics of vegetation autumn phenology on the Tibetan Plateau. 2018 , 69, 198-205	39
391	Vascular plant-mediated controls on atmospheric carbon assimilation and peat carbon decomposition under climate change. 2018 , 24, 3911-3921	25
390	Modelling impacts of recent warming on seasonal carbon exchange in higher latitudes of North America. 2018 , 4, 471-484	3
389	Climatic and associated cryospheric, biospheric, and hydrological changes on the Tibetan Plateau: a review. 2018 , 38, e1-e17	80
388	Comparison of the spatio-temporal dynamics of vegetation between the Changbai Mountains of eastern Eurasia and the Appalachian Mountains of eastern North America. 2018 , 15, 1-12	3
387	Canadian boreal forest greening and browning trends: an analysis of biogeographic patterns and the relative roles of disturbance versus climate drivers. 2018 , 13, 014007	68

386	Productivity of an Australian mountain grassland is limited by temperature and dryness despite long growing seasons. 2018 , 256-257, 116-124	12
385	A comparative analysis of the NDVIg and NDVI3g in monitoring vegetation phenology changes in the Northern Hemisphere. 2018 , 33, 1-20	22
384	Effect of salt stress on photosynthesis and physiological parameters of three contrasting barley genotypes. 2018 , 56, 549-556	33
383	Autumnal warming does not change root phenology in two contrasting vegetation types of subarctic tundra. 2018 , 424, 145-156	8
382	MODIS EVI-based net primary production in the Sahel 2000-2014. 2018 , 65, 35-45	8
381	Temporal photoperiod sensitivity and forcing requirements for budburst in temperate tree seedlings. 2018 , 248, 82-90	17
380	On the causes of trends in the seasonal amplitude of atmospheric CO ₂ . 2018 , 24, 608-616	35
379	Larger temperature response of autumn leaf senescence than spring leaf-out phenology. 2018 , 24, 2159-2168	62
378	Commitment-Based Equilibrium Environmental Strategies Under Time-Dependent Absorption Efficiency. 2018 , 27, 235-249	5
377	Extremely dry environment down-regulates nighttime respiration of a black spruce forest in Interior Alaska. 2018 , 249, 297-309	8
376	Sex-specific responses of bud burst and early development to nongrowing season warming and drought in <i>Populus cathayana</i> . 2018 , 48, 68-76	8
375	Seasonal and inter-annual variability of atmosphere CO ₂ based on NOAA Carbon Tracker analysis and satellite observations. 2018 , 46, 309-320	3
374	Divergent responses of thermal growing degree-days and season to projected warming over China. 2018 , 38, 5605-5618	5
373	Development of the DayCent-Photo model and integration of variable photosynthetic capacity. 2018 , 12, 765-778	8
372	Links between annual surface temperature variation and land cover heterogeneity for a boreal forest as characterized by continuous, fibre-optic DTS monitoring. 2018 , 7, 223-234	1
371	Climate feedbacks in the Earth system and prospects for their evaluation. 2018 ,	1
370	. 2018 ,	1
369	Emerging negative impact of warming on summer carbon uptake in northern ecosystems. 2018 , 9, 5391	13

368	Proxy Indicators for Mapping the End of the Vegetation Active Period in Boreal Forests Inferred from Satellite-Observed Soil Freeze and ERA-Interim Reanalysis Air Temperature. 2018 , 86, 169-185		
367	Urbanization Impacts on Vegetation Phenology in China. 2018 , 10, 1905		16
366	Climate Control on Net Primary Productivity in the Complicated Mountainous Area: A Case Study of Yunnan, China. 2018 , 11, 4637-4648		11
365	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , 2018 , 562, 110-114	50.4	134
364	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO ₂ amplification over northern lands. 2018 , 13, 124008		8
363	The effects of air temperature and precipitation on the net primary productivity in China during the early 21st century. 2018 , 12, 818-833		19
362	Remote sensing of variation of light use efficiency in two age classes of Douglas-fir. 2018 , 219, 284-297		7
361	Quantifying the effect of forest age in annual net forest carbon balance. 2018 , 13, 124018		41
360	The climatic drivers of normalized difference vegetation index and tree-ring-based estimates of forest productivity are spatially coherent but temporally decoupled in Northern Hemispheric forests. 2018 , 27, 1352-1365		31
359	Combined impact of heat stress and phosphate deficiency on growth and photochemical activity of sheepgrass (<i>Leymus chinensis</i>). 2018 , 231, 271-276		6
358	Later springs green-up faster: the relation between onset and completion of green-up in deciduous forests of North America. 2018 , 62, 1645-1655		15
357	Detecting the permafrost carbon feedback: talik formation and increased cold-season respiration as precursors to sink-to-source transitions. 2018 , 12, 123-144		36
356	Negative effect of nitrogen addition on soil respiration dependent on stand age: Evidence from a 7-year field study of larch plantations in northern China. 2018 , 262, 24-33		15
355	Association analysis between spatiotemporal variation of vegetation greenness and precipitation/temperature in the Yangtze River Basin (China). 2018 , 25, 21867-21878		28
354	Acceleration of global vegetation greenup from combined effects of climate change and human land management. 2018 , 24, 5484-5499		39
353	Major perturbations in the Earth's forest ecosystems. Possible implications for global warming. 2018 , 185, 544-571		44
352	Hyperactive soil microbes might weaken the terrestrial carbon sink. <i>Nature</i> , 2018 , 560, 32-33	50.4	11
351	Using canopy greenness index to identify leaf ecophysiological traits during the foliar senescence in an oak forest. 2018 , 9, e02337		8

350	Effects of Growing-Season Drought on Phenology and Productivity in the West Region of Central Hardwood Forests, USA. 2018 , 9, 377	4
349	Climate and Spring Phenology Effects on Autumn Phenology in the Greater Khingan Mountains, Northeastern China. 2018 , 10, 449	39
348	Accelerating rates of Arctic carbon cycling revealed by long-term atmospheric CO measurements. 2018 , 4, eao1167	40
347	Climatic Controls of the Spatial Patterns of Vegetation Phenology in Midlatitude Grasslands of the Northern Hemisphere. 2018 , 123, 2323-2336	17
346	Phenological variation decreased carbon uptake in European forests during 1999–2013. 2018 , 427, 45-51	11
345	Decelerating Autumn CO ₂ Release With Warming Induced by Attenuated Temperature Dependence of Respiration in Northern Ecosystems. 2018 , 45, 5562-5571	4
344	Interpretation of vegetation phenology changes using daytime and night-time temperatures across the Yellow River Basin, China. 2019 , 693, 133553	20
343	A semi-analytical approach for remote sensing of trophic state in inland waters: Bio-optical mechanism and application. 2019 , 232, 111349	26
342	Interannual linkage between wintertime sea-ice cover variability over the Barents Sea and springtime vegetation over Eurasia. 2019 , 53, 5637-5652	8
341	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. 2019 , 10, 379-452	31
340	Detecting change-point, trend, and seasonality in satellite time series data to track abrupt changes and nonlinear dynamics: A Bayesian ensemble algorithm. 2019 , 232, 111181	52
339	Effect of High Temperature on Carbohydrate Metabolism in Plants. 2019 , 115-216	1
338	Temperature sensitivity of soil respiration across multiple time scales in a temperate plantation forest. 2019 , 688, 479-485	16
337	Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. 2019 , 213, 585-596	15
336	Autumn phenology of a temperate deciduous forest: Validation of remote sensing approach with decadal leaf-litterfall measurements. 2019 , 279, 107758	7
335	Climate Prediction of Satellite-Based Spring Eurasian Vegetation Index (NDVI) using Coupled Singular Value Decomposition (SVD) Patterns. 2019 , 11, 2123	4
334	Contrasting effects of CO ₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO ₂ exchange. 2019 , 19, 12361-12375	14
333	An increasing trend in the ratio of transpiration to total terrestrial evapotranspiration in China from 1982 to 2015 caused by greening and warming. 2019 , 279, 107701	26

332	Contrasting effects of CO ₂ fertilisation, land-use change and warming on seasonal amplitude of northern hemisphere CO ₂ exchange. 2019 ,	
331	Patterns and drivers in spring and autumn phenology differ above- and belowground in four ecosystems under the same macroclimatic conditions. 2019 , 445, 217-229	3
330	The effect of phenology on the carbon exchange process in grassland and maize cropland ecosystems across a semiarid area of China. 2019 , 695, 133868	13
329	Ongoing seasonally uneven climate warming leads to earlier autumn growth cessation in deciduous trees. 2019 , 189, 549-561	21
328	Carbon flux phenology and net ecosystem productivity simulated by a bioclimatic index in an alpine steppe-meadow on the Tibetan Plateau. 2019 , 394, 66-75	8
327	Urban-rural gradients reveal joint control of elevated CO ₂ and temperature on extended photosynthetic seasons. 2019 , 3, 1076-1085	43
326	Asymmetric seasonal daytime and nighttime warming and its effects on vegetation in the Loess Plateau. 2019 , 14, e0218480	4
325	Enhanced North American carbon uptake associated with El Niño. 2019 , 5, eaaw0076	26
324	The climatic drivers of primary Picea forest growth along the Carpathian arc are changing under rising temperatures. 2019 , 25, 3136-3150	23
323	Coupling between the terrestrial carbon and water cycles – review. 2019 , 14, 083003	42
322	Recent Warming Has Resulted in Smaller Gains in Net Carbon Uptake in Northern High Latitudes. 2019 , 32, 5849-5863	3
321	Effects of data temporal resolution on phenology extractions from the alpine grasslands of the Tibetan Plateau. 2019 , 104, 365-377	10
320	Carbon Dioxide and Water Exchange between Spruce Forest and Atmosphere in Spring/Summer under Different Weather Conditions. 2019 , 12, 45-58	1
319	Experimentally warmer and drier conditions in an Arctic plant community reveal microclimatic controls on senescence. 2019 , 10, e02677	7
318	Time and amount of supplemental irrigation at different distances from tree trunks influence on morphological characteristics and physiological responses of rainfed fig trees under drought conditions. 2019 , 253, 241-254	4
317	Temperature and moisture are minor drivers of regional-scale soil organic carbon dynamics. 2019 , 9, 6422	11
316	Identification of drought tolerant genotypes using physiological traits in soybean. 2019 , 25, 697-711	7
315	Heat and Drought Stress Advanced Global Wheat Harvest Timing from 1981-2014. 2019 , 11, 971	7

314	Evidence for non-steady-state carbon emissions from snow-scoured alpine tundra. 2019 , 10, 1306	12
313	Interactive effect of temperature and water stress on physiological and biochemical processes in soybean. 2019 , 25, 667-681	15
312	Plant phenology and global climate change: Current progresses and challenges. 2019 , 25, 1922-1940	382
311	Estimating grassland aboveground biomass on the Tibetan Plateau using a random forest algorithm. 2019 , 102, 479-487	25
310	Contributions of climate change to the terrestrial carbon stock of the arid region of China: A multi-dataset analysis. 2019 , 668, 631-644	12
309	Local snow melt and temperature-but not regional sea ice-explain variation in spring phenology in coastal Arctic tundra. 2019 , 25, 2258-2274	28
308	Modeling Climate Change Impacts on an Arctic Polygonal Tundra: 2. Changes in CO ₂ and CH ₄ Exchange Depend on Rates of Permafrost Thaw as Affected by Changes in Vegetation and Drainage. 2019 , 124, 1323-1341	8
307	Changes in timing of seasonal peak photosynthetic activity in northern ecosystems. 2019 , 25, 2382-2395	31
306	Estimation of Vegetation Productivity Using a Landsat 8 Time Series in a Heavily Urbanized Area, Central China. 2019 , 11, 133	10
305	Influences of 1.5 °C and 2.0 °C global warming scenarios on water use efficiency dynamics in the sandy areas of northern China. 2019 , 664, 161-174	11
304	Contrasting wheat phenological responses to climate change in global scale. 2019 , 665, 620-631	28
303	A new global dataset of phase synchronization of temperature and precipitation: Its climatology and contribution to global vegetation productivity. 2019 , 6, 126-136	3
302	Forest Phenology Dynamics to Climate Change and Topography in a Geographic and Climate Transition Zone: The Qinling Mountains in Central China. 2019 , 10, 1007	26
301	5-Aminolevulinic acid (ALA) biosynthetic and metabolic pathways and its role in higher plants: a review. 2019 , 87, 357-374	37
300	Vegetation phenology and its variations in the Tibetan Plateau, China. 2019 , 40, 3323-3343	3
299	Growth stage-dependant variability in water vapor and CO ₂ exchanges over a humid alpine shrubland on the northeastern Qinghai-Tibetan Plateau. 2019 , 268, 55-62	16
298	Spatio-temporal dynamics of soil moisture driven by Grain for Green program on the Loess Plateau, China. 2019 , 269, 204-214	26
297	Exploring relationships of spring green-up to moisture and temperature across Wyoming, U.S.A. 2019 , 40, 956-984	5

296	Ectomycorrhizal fungi respiration quantification and drivers in three differently-aged larch plantations. 2019 , 265, 245-251	5
295	NDVI-based vegetation dynamics and its response to climate changes at Amur-Heilongjiang River Basin from 1982 to 2015. 2019 , 650, 2051-2062	147
294	Impact of urbanization on spring and autumn phenology of deciduous trees in the Seoul Capital Area, South Korea. 2019 , 63, 627-637	9
293	Spatial-temporal variations in the thermal growing degree-days and season under climate warming in China during 1960-2011. 2019 , 63, 649-658	11
292	Net neutral carbon responses to warming and grazing in alpine grassland ecosystems. 2020 , 280, 107792	13
291	Increased high-latitude photosynthetic carbon gain offset by respiration carbon loss during an anomalous warm winter to spring transition. 2020 , 26, 682-696	19
290	Global vegetation biomass production efficiency constrained by models and observations. 2020 , 26, 1474-1484	5
289	Transboundary pollution control and environmental absorption efficiency management. 2020 , 287, 653-681	5
288	The compensation effects of post-drought regrowth on earlier drought loss across the tibetan plateau grasslands. 2020 , 281, 107822	19
287	Water and heat availability are drivers of the aboveground plant carbon accumulation rate in alpine grasslands on the Tibetan Plateau. 2020 , 29, 50-64	33
286	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. 2020 , 58, e2019RG000652	23
285	Coarse-Resolution Satellite Images Overestimate Urbanization Effects on Vegetation Spring Phenology. 2020 , 12, 117	19
284	Projection of Net Primary Productivity under Global Warming Scenarios of 1.5 °C and 2.0 °C in Northern China Sandy Areas. 2020 , 11, 71	4
283	Urbanization and climate change jointly shift land surface phenology in the northern mid-latitude large cities. 2020 , 236, 111477	26
282	Vegetation response in subtropical southwest China to rapid climate change during the Younger Dryas. 2020 , 201, 103080	10
281	Characteristics, drivers and feedbacks of global greening. 2020 , 1, 14-27	316
280	Precipitation variability drives the reduction of total soil respiration and heterotrophic respiration in response to nitrogen addition in a temperate forest plantation. 2020 , 56, 273-279	9
279	Attribution of climate and human activities to vegetation change in China using machine learning techniques. 2020 , 294, 108146	34

278	Enhanced spring temperature sensitivity of carbon emission links to earlier phenology. 2020 , 745, 140999	4
277	Production-based pollution versus deforestation: optimal policy with state-independent and-dependent environmental absorption efficiency restoration process. 2020 , 292, 1-26	1
276	Willow phenological modelling at different altitudes in central Italy. 2020 , 192, 737	1
275	The Global Carbon and Oxygen Cycles. 2020 , 453-481	
274	Soil water availability threshold indicator was determined by using plant physiological responses under drought conditions. 2020 , 118, 106740	5
273	Examining land surface phenology in the tropical moist forest eco-zone of South America. 2020 , 64, 1911-1922	
272	Comparison of land surface phenology in the Northern Hemisphere based on AVHRR GIMMS3g and MODIS datasets. 2020 , 169, 1-16	10
271	Variable Fall Climate Conditions on Carbon Assimilation and Spring Phenology of Young Peach Trees. 2020 , 9,	1
270	Using climate-driven leaf phenology and growth to improve predictions of gross primary productivity in North American forests. 2020 , 26, 6974-6988	6
269	The Impact of Seasonal and Annual Climate Variations on the Carbon Uptake Capacity of a Deciduous Forest Within the Great Lakes Region of Canada. 2020 , 125, e2019JG005389	2
268	Multi-Climatic Factors and the Preceding Growth Stage of Vegetation Co-Regulated the Variation of the End of Growing Season in Northeast Inner Mongolia, China. 2020 , 8, 221525-221538	1
267	Lake Phenology of Freeze-Thaw Cycles Using Random Forest: A Case Study of Qinghai Lake. 2020 , 12, 4098	3
266	Changes in sessile oak (<i>Quercus petraea</i>) productivity under climate change by improved leaf phenology in the 3-PG model. 2020 , 438, 109285	4
265	Asymmetry of Daytime and Nighttime Warming in Typical Climatic Zones along the Eastern Coast of China and Its Influence on Vegetation Activities. 2020 , 12, 3604	3
264	Little direct effect of diurnal temperature amplitude on growing seasonal CO ₂ fluxes in alpine humid shrubland, Qinghai-Tibetan Plateau. 2020 , 35, 603-612	1
263	Three-dimensional change in temperature sensitivity of northern vegetation phenology. 2020 , 26, 5189-5201	18
262	Variation in the phenology of photosynthesis among eastern white pine provenances in response to warming. 2020 , 26, 5217-5234	2
261	Land surface phenology and greenness in Alpine grasslands driven by seasonal snow and meteorological factors. 2020 , 725, 138380	8

260	Comparison of traditional ground-based observations and digital remote sensing of phenological transitions in a floodplain forest. 2020 , 291, 108079	9
259	Inter- and intra-tree variability of carbon and oxygen stable isotope ratios of modern pollen from nine European tree species. 2020 , 15, e0234315	2
258	Monitoring Phenology in the Temperate Grasslands of China from 1982 to 2015 and Its Relation to Net Primary Productivity. 2020 , 12, 12	5
257	Diverse effects of climate at different times on grassland phenology in mid-latitude of the Northern Hemisphere. 2020 , 113, 106260	8
256	Non-structural carbohydrate dynamics associated with antecedent stem water potential and air temperature in a dominant desert shrub. 2020 , 43, 1467-1483	9
255	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO ₂ measurements from 1999 to 2017. 2020 , 26, 3368-3383	3
254	Understanding the continuous phenological development at daily time step with a Bayesian hierarchical space-time model: impacts of climate change and extreme weather events. 2020 , 247, 111956	9
253	Progress in plant phenology modeling under global climate change. 2020 , 63, 1237-1247	14
252	Sensitivity of 21st century simulated ecosystem indicators to model parameters, prescribed climate drivers, RCP scenarios and forest management actions for two Finnish boreal forest sites. 2020 , 17, 2681-2700 ⁵	5
251	Carbon Dioxide, Heat, and Water Vapor Fluxes between a Spruce Forest and the Atmosphere in Northeastern European Russia. 2020 , 47, 306-317	2
250	Trees in a Warming World. 2020 , 160-199	
249	Spring phenophases of larch are more sensitive to spring warming than to year-round warming: Results of a seasonally asymmetric warming experiment. 2020 , 474, 118368	4
248	Light limitation regulates the response of autumn terrestrial carbon uptake to warming. 2020 , 10, 739-743	28
247	Assisted migration across fixed seed zones detects adaptation lags in two major North American tree species. 2020 , 30, e02092	20
246	Evaluating autumn phenology derived from field observations, satellite data, and carbon flux measurements in a northern mixed forest, USA. 2020 , 64, 713-727	9
245	The effects of climate change on normalized difference vegetation index (NDVI) in the Northeast of Iran. 2020 , 6, 671-683	10
244	Vegetation response to precipitation anomalies under different climatic and biogeographical conditions in China. 2020 , 10, 830	38
243	Interannual and seasonal variations in carbon exchanges over an alpine meadow in the northeastern edge of the Qinghai-Tibet Plateau, China. 2020 , 15, e0228470	4

242	Warming induced changes in wood matter accumulation in tracheid walls of spruce. 2020 , 17, 16-30	4
241	Variations in the growth response of <i>Pinus tabulaeformis</i> to a warming climate at the northern limits of its natural range. 2020 , 34, 707-719	6
240	Delayed autumn leaf senescence date prolongs the growing season length of herbaceous plants on the Qinghai-Tibetan Plateau. 2020 , 284, 107896	19
239	The control of wind strength on the barchan to parabolic dune transition. 2020 , 45, 2300-2313	6
238	Response of Soil CO ₂ Efflux to Shelterwood Harvesting in a Mature Temperate Pine Forest. 2020 , 11, 304	2
237	Impact of spring phenology variation on GPP and its lag feedback for winter wheat over the North China Plain. 2020 , 725, 138342	4
236	Modeling leaf senescence of deciduous tree species in Europe. 2020 , 26, 4104-4118	17
235	Phenological responses of temperate and boreal trees to warming depend on ambient spring temperatures, leaf habit, and geographic range. 2020 , 117, 10397-10405	20
234	Effect of Atlantic Sea Surface Temperature in May on Intraseasonal Variability of Eurasian NDVI in Summer. 2020 , 125, e2019JD031991	3
233	Nonadditive and Legacy Effects of Spring and Autumn Warming on Soil Respiration in an Old-Field Grassland. 2021 , 24, 421-433	2
232	Long-term grazing exclusion greatly improve carbon and nitrogen store in an alpine meadow on the northern Qinghai-Tibet Plateau. 2021 , 197, 104955	8
231	Longer greenup periods associated with greater wood volume growth in managed pine stands. 2021 , 297, 108237	2
230	Land surface phenology as indicator of global terrestrial ecosystem dynamics: A systematic review. 2021 , 171, 330-347	21
229	China's Interannual Variability of Net Primary Production Is Dominated by the Central China Region. 2021 , 126, e2020JD033362	6
228	Spatiotemporal dynamics in assimilated-LAI phenology and its impact on subtropical bamboo forest productivity. 2021 , 96, 102267	2
227	Drivers of phenology shifts and their effect on productivity in northern grassland of China during 1984-2017-evidence from long-term observational data. 2021 , 65, 527-539	3
226	Effects of Soil Water Deficit on Carbon Metabolism of Plants: A Review. 2021 , 99-192	
225	Increased Litter Greatly Enhancing Soil Respiration in <i>Betula platyphylla</i> Forests of Permafrost Region, Northeast China. 2021 , 12, 89	2

224	Unsynchronized Driving Mechanisms of Spring and Autumn Phenology Over Northern Hemisphere Grasslands. 2021 , 3,	2
223	Vegetation Cover Change and Its Attribution in China from 2001 to 2018. 2021 , 13, 496	2
222	The Arctic Carbon Cycle and Its Response to Changing Climate. 2021 , 7, 14-34	19
221	Spatio-temporal variability of atmospheric CO ₂ and its main causes: A case study in Xi'an city, China. 2021 , 249, 105346	0
220	A salt-tolerant chloroplastic FBpase from <i>Oryza coarctata</i> confers improved photosynthesis with higher yield and multi-stress tolerance to indica rice. 2021 , 145, 561-578	3
219	Spring phenology outweighed climate change in determining autumn phenology on the Tibetan Plateau. 2021 , 41, 3725-3742	9
218	Impacts of strengthened warming by urban heat island on carbon sequestration of urban ecosystems in a subtropical city of China. 2021 , 24, 1165	3
217	Greenhouse gas fluxes from Alaska's North Slope inferred from the Airborne Carbon Measurements campaign (ACME-V). 2021 , 248, 118239	0
216	Combined gas exchange characteristics, chlorophyll fluorescence and response curves as selection traits for temperature tolerance in maize genotypes. 2021 , 150, 213-225	4
215	Divergent responses of phenology and growth to summer and autumnal warming. 2021 , 27, 2905-2913	1
214	Autumn Phenology and Its Covariation with Climate, Spring Phenology and Annual Peak Growth on the Mongolian Plateau. 2021 , 298-299, 108312	6
213	How Robust Is the Apparent Break-Down of Northern High-Latitude Temperature Control on Spring Carbon Uptake?. 2021 , 48, e2020GL091601	0
212	Urbanization imprint on land surface phenology: The urban-rural gradient analysis for Chinese cities. 2021 , 27, 2895-2904	8
211	Warm-season net CO ₂ uptake outweighs cold-season emissions over Alaskan North Slope tundra under current and RCP8.5 climate. 2021 , 16, 055012	1
210	High-resolution forest carbon modelling for climate mitigation planning over the RGGI region, USA. 2021 , 16, 045014	6
209	Spatiotemporal variation and predictability of vegetation coverage in the Beijing-Tianjin-Hebei metropolitan region, China. 2021 , 145, 47-62	4
208	Widespread decline in winds delayed autumn foliar senescence over high latitudes. 2021 , 118,	14
207	Response of net primary productivity to grassland phenological changes in Xinjiang, China. 2021 , 9, e10650	0

206	Strong controls of daily minimum temperature on the autumn photosynthetic phenology of subtropical vegetation in China. 2021 , 8, 31	7
205	Divergent changes of the elevational synchronicity in vegetation spring phenology in North China from 2001 to 2017 in connection with variations in chilling.	3
204	How changes in spring and autumn phenology translate into growth-experimental evidence of asymmetric effects. 2021 , 109, 2717-2728	0
203	Eco-engineering controls vegetation trends in southwest China karst. 2021 , 770, 145160	20
202	Decadal variability in land carbon sink efficiency. 2021 , 16, 15	0
201	Increasing temperature shortened the carbon uptake period and decreased the cumulative net ecosystem productivity in a maize cropland in Northeast China. 2021 , 267, 108150	1
200	Regionwide temporal gradients of carbon allocation allow for shoot growth and latewood formation in boreal black spruce. 2021 , 30, 1657-1670	2
199	Declined trend in herbaceous plant green-up dates on the Qinghai-Tibetan Plateau caused by spring warming slowdown. 2021 , 772, 145039	4
198	Addressing biases in ArcticBoreal carbon cycling in the Community Land Model Version 5. 2021 , 14, 3361-3382	2
197	Experimental warming differentially affects vegetative and reproductive phenology of tundra plants. 2021 , 12, 3442	12
196	Spring and autumn phenology across the Tibetan Plateau inferred from normalized difference vegetation index and solar-induced chlorophyll fluorescence. 1-19	4
195	Strong impacts of autumn phenology on grassland ecosystem water use efficiency on the Tibetan Plateau. 2021 , 126, 107682	5
194	Aboveground biomass increments over 26 years (1993-2019) in an old-growth cool-temperate forest in northern Japan.	
193	A Simple Method of Predicting Autumn Leaf Coloring Date Using Machine Learning with Spring Leaf Unfolding Date. 1	0
192	Projected soil organic carbon loss in response to climate warming and soil water content in a loess watershed. 2021 , 16, 24	7
191	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO seasonal cycle amplification. 2021 , 118,	9
190	Increases in organic carbon and nitrogen concentrations in boreal forested catchments - Changes driven by climate and deposition. 2021 , 780, 146627	9
189	Geographical, Climatological, and Biological Characteristics of Tree Radial Growth Response to Autumn Climate Change. 2021 , 4,	

188	Incorporating water availability into autumn phenological model improved China's terrestrial gross primary productivity (GPP) simulation. 2021 , 16, 094012	2
187	Applicability of Smoothing Techniques in Generation of Phenological Metrics of <i>Tectona grandis</i> L. Using NDVI Time Series Data. 2021 , 13, 3343	1
186	Onset of autumn senescence in High Arctic plants shows similar patterns in natural and experimental snow depth gradients.	2
185	Spatiotemporal differences in climate change impacts on vegetation cover in China from 1982 to 2015. 2021 , 1	1
184	Enhanced spatiotemporal heterogeneity and the climatic and biotic controls of autumn phenology in northern grasslands. 2021 , 788, 147806	4
183	Response of Vegetation Photosynthetic Phenology to Urbanization in Dongting Lake Basin, China. 2021 , 13, 3722	0
182	Spatio-temporal dependency of vegetation dynamics on climatic variables during 1982-2015 over India. 2021 , 68, 4616-4616	0
181	Co-occurrence of Aquatic Heatwaves with Atmospheric Heatwaves, Low Dissolved Oxygen, and Low pH Events in Estuarine Ecosystems. 1	0
180	Changes of lake organic carbon sinks from closed basins since the Last Glacial Maximum and quantitative evaluation of human impacts. 2021 , 16, 28	0
179	Atmospheric brightening counteracts warming-induced delays in autumn phenology of temperate trees in Europe. 2021 , 30, 2477	7
178	Phenological shifts induced by climate change amplify drought for broad-leaved trees at low elevations in Switzerland. 2021 , 307, 108485	4
177	Interannual and spatial variability of net ecosystem production in forests explained by an integrated physiological indicator in summer. 2021 , 129, 107982	1
176	Daytime temperature contributes more than nighttime temperature to the weakened relationship between climate warming and vegetation growth in the extratropical Northern Hemisphere. 2021 , 131, 108203	0
175	Development of a global annual land surface phenology dataset for 1982-2018 from the AVHRR data by implementing multiple phenology retrieving methods. 2021 , 103, 102487	1
174	The Phenology of Gross Ecosystem Productivity and Ecosystem Respiration in Temperate Hardwood and Conifer Chronosequences. 2009 , 59-85	12
173	Environmental Impacts on Coastal Ecosystems, Birds and Forests. 2015 , 291-306	0
172	Net Primary Productivity (NPP) of Oasis Changes in Trends in Xinjiang and Responses to Climate Change Analysis in 1981-2000. 2011 , 417-424	1
171	Carbon Dynamics and Pools in Major Forest Biomes of the World. 2010 , 159-205	3

170	The Impacts of the NAO on the Vegetation Activity in Iberia. 2011 , 113-128	5
169	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. 2010 , 93-115	4
168	Plant Development Models. 2013 , 275-293	42
167	Temperature Sensitivity of Canopy Photosynthesis Phenology in Northern Ecosystems. 2013 , 503-519	2
166	Spatiotemporal variations of forest phenology in the Qinling Mountains and its response to a critical temperature of 10°C. 2018 , 12, 1	4
165	Predicting climate change impacts on the amount and duration of autumn colors in a New England forest. 2013 , 8, e57373	100
164	Satellite data-based phenological evaluation of the nationwide reforestation of South Korea. 2013 , 8, e58900	18
163	Effects of warming on chlorophyll degradation and carbohydrate accumulation of Alpine herbaceous species during plant senescence on the Tibetan Plateau. 2014 , 9, e107874	37
162	Automated processing of webcam images for phenological classification. 2017 , 12, e0171918	5
161	Satellite Observations of Decadal Scale CO ₂ Fluxes Over Black Spruce Forests in Alaska Associated with Climate Variability. 2009 , 65, 47-60	3
160	Photosynthetic activity of common buckwheat (<i>Fagopyrum esculentum</i> Moench) exposed to thermal stress. 2020 , 58, 45-53	4
159	OPINION PIECE Non-traditional data and innovative methods for autumn climate change ecology. 2018 , 75, 215-220	5
158	Simulating the vegetation-producing process in small watersheds in the Loess Plateau of China. 2012 , 4, 300-309	4
157	Contribution of environmental variability and ecosystem functional changes to interannual variability of carbon and water fluxes in a subtropical coniferous plantation. 2016 , 9, 452-460	4
156	Sources of variations in total column carbon dioxide.	4
155	Quantifying the constraint of biospheric process parameters by CO ₂ concentration and flux measurement networks through a carbon cycle data assimilation system.	1
154	Analysis of CO ₂ mole fraction data: first evidence of large-scale changes in CO ₂ uptake at high northern latitudes.	3
153	Response of carbon and water fluxes to meteorological and phenological variability in two eastern North American forests of similar age but contrasting species composition: a multiyear comparison. 2020 , 17, 3563-3587	9

152	Current systematic carbon cycle observations and needs for implementing a policy-relevant carbon observing system.	10
151	Comparing the impacts of 2003 and 2010 heatwaves in NPP over Europe.	6
150	Delayed responses of an Arctic ecosystem to an extremely dry summer: impacts on net ecosystem exchange and vegetation functioning.	2
149	Dynamics of global atmospheric CO ₂ concentration from 1850 to 2010: a linear approximation.	2
148	Tree-ring responses to extreme climate events as benchmarks for terrestrial dynamic vegetation models.	12
147	Using satellite data to improve the leaf phenology of a global Terrestrial Biosphere Model.	4
146	Interpreting canopy development and physiology using the EUROPhen camera network at flux sites.	12
145	Variability and recent trends in the African carbon balance.	13
144	Seasonal and annual variation of carbon fluxes in a young Siberian larch (<i>Larix sibirica</i>) plantation in Iceland.	3
143	Autumn warming and carbon balance of a boreal Scots pine forest in Southern Finland.	3
142	Controls on winter ecosystem respiration at mid- and high-latitudes.	4
141	Importance of crop varieties and management practices: evaluation of a process-based model for simulating CO ₂ and H ₂ O fluxes at five European maize (<i>Zea mays</i> L.) sites.	3
140	Effects of climate variability and functional changes on the interannual variation of the carbon balance in a temperate deciduous forest.	1
139	An assessment of the carbon balance of arctic tundra: comparisons among observations, process models, and atmospheric inversions.	16
138	An estimate of the terrestrial carbon budget of Russia using inventory based, eddy covariance and inversion methods.	5
137	Vegetation change in response to climate factors and human activities on the Mongolian Plateau. 2019 , 7, e7735	8
136	A global increase in tree cover extends the growing season length as observed from satellite records. 2022 , 806, 151205	0
135	Insights from Time Series of Atmospheric Carbon Dioxide and Related Tracers. 2021 , 46, 85-110	6

- 134 Designing of noble metal free high performance mesoporous electrocatalysts for water splitting. **2021**, 2
- 133 European Carbon Uptake has Not Benefited From Vegetation Greening. **2021**, 48, e2021GL094870 2
- 132 Ozone flux modelling for risk assessment: status and research needs. **2009**, 2, 34-37 1
- 131 Simulating carbon and water cycles of larch forests in East Asia by the BIOME-BGC model with AsiaFlux data. 1
- 130 The Scientific Potential of Environmental Monitoring. **2010**, 39-55
- 129 Plant ecology in China. **2010**, 1-7
- 128 Regional Climate Change and Fluctuations as Reflected in the Atmospheric Carbon Dioxide Concentration. **2011**, 49-62
- 127 Drought-associated changes in climate and their relevance for ecosystem experiments and models. 1
- 126 As different as day and night: evidence from root lifespan.
- 125 Impacts of Climatic Changes on Biogeochemical Cycling in Terrestrial Ecosystems. **2012**, 433-470 1
- 124 References. 309-360
- 123 Improved simulation of group averaged CO₂ surface concentrations using GEOS-Chem and fluxes from VEGAS. 1
- 122 The covariation of Northern Hemisphere summertime CO₂ with surface temperature at boreal latitudes. 1
- 121 Recent changes in the global and regional carbon cycle: analysis of first-order diagnostics.
- 120 Precipitation Mediates the Response of Carbon Cycle to Rising Temperature in the Mid-to-High Latitudes of the Northern Hemisphere. **2015**, 10, e0132663 0
- 119 Introduction: The Pan-Eurasian Experiment (PEEX) [multi-disciplinary, multi-scale and multi-component research and capacity building initiative.
- 118 Geo-climatic gradient shapes functional trait variations in *Salix eriocephala* Michx.
- 117 Geo-climatic gradient shapes functional trait variations in *Salix eriocephala* Michx. 0

- 116 Global Change and Terrestrial Ecosystems. **2019**, 865-899
- 115 Temperate Waldzone. **2019**, 183-238
- 114 Temperature Dependence of Soil Respiration in Arid Region Is Reconciled. **2019**, 350-358
- 113 Boreale Wlder und Moorgebiete. **2019**, 117-181
- 112 Vegetation Change. **2020**, 367-432
- 111 Greenhouse Gases and Energy Fluxes at Permafrost Zone. **2021**, 527-558
- 110 References. **2020**, 531-734
- 109 Spatial synchrony in the start and end of the thermal growing season has different trends in the mid-high latitudes of the Northern Hemisphere. 0
- 108 Climate Change Decreased Net Ecosystem Productivity in the Arid Region of Central Asia. **2021**, 13, 4449 4
- 107 Siberian 2020 heatwave increased spring CO₂ uptake but not annual CO₂ uptake. 0
- 106 Dynamic changes in the thermal growing season and their association with atmospheric circulation in China. **2021**, 1 0
- 105 Macrophenology: insights into the broad-scale patterns, drivers, and consequences of phenology. **2021**, 108, 2112-2126 2
- 104 Cooperative Evolution of China's Excellent Innovative Research Groups from the Perspective of Innovation Ecosystem: Taking an "Environmental Biogeochemistry" Research Innovation Group as a Case Study. **2021**, 18,
- 103 Improved ELMv1-ECA simulations of zero-curtain periods and cold-season CH₄ and CO₂ emissions at Alaskan Arctic tundra sites. **2021**, 15, 5281-5307 0
- 102 Increased Water Use Efficiency in China and Its Drivers During 2000–2016. 1 2
- 101 Carbon dioxide fluxes of a mountain grassland: Drivers, anomalies and annual budgets. **2022**, 314, 108801 2
- 100 Ecosystem gross primary productivity after autumn snowfall and melt events in a mountain meadow.
- 99 The shift in temperature zone boundaries in China based on the changes of the climate growing season in the Qinling Mountains from 1964 to 2015. 1

98	Heat and drought impact on carbon exchange in an age-sequence of temperate pine forests.. 2022 , 11, 7	3
97	Aboveground biomass increments over 26 years (1993-2019) in an old-growth cool-temperate forest in northern Japan.. 2022 , 135, 69	
96	Earlier snowmelt predominates advanced spring vegetation greenup in Alaska. 2022 , 315, 108828	3
95	NIRv and SIF better estimate phenology than NDVI and EVI: Effects of spring and autumn phenology on ecosystem production of planted forests. 2022 , 315, 108819	2
94	A review of forest carbon cycle models on spatiotemporal scales. 2022 , 339, 130692	4
93	Beneficial effects of warming on temperate tree carbon storage depend on precipitation and mycorrhizal types.. 2022 , 819, 153086	
92	Assimilation of NEON observations into a process-based carbon cycle model reveals divergent mechanisms of carbon dynamics in temperate deciduous forests.	1
91	Effect of Low Temperature Stress on Photosynthesis and Allied Traits: A Review. 2022 , 199-297	0
90	Exogenous trehalose differently improves photosynthetic carbon assimilation capacities in maize and wheat under heat stress. 2022 , 17, 361-370	0
89	Decreasing rainfall frequency contributes to earlier leaf onset in northern ecosystems. 2022 , 12, 386-392	2
88	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas.. 2022 ,	5
87	New land-use-change emissions indicate a declining CO airborne fraction.. <i>Nature</i> , 2022 , 603, 450-454	50.4 1
86	Seasonal Responses of Net Primary Productivity of Vegetation to Phenological Dynamics in the Loess Plateau, China. 2022 , 32, 340-357	0
85	Increasing terrestrial ecosystem carbon release in response to autumn cooling and warming. 2022 , 12, 380-385	2
84	A novel method for the assessment of the variations in surface air temperature seasonality of southern Mediterranean region: climatological implications for the Italian Peninsula for the period 1980-2014. 2022 , 15,	
83	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems.. 2022 , 12, 3986	0
82	Satellite-observed shifts in C3/C4 abundance in Australian grasslands are associated with rainfall patterns. 2022 , 273, 112983	1
81	Agronomy in the temperate zone and threats or mitigation from climate change: A review. 2022 , 212, 106089	0

80	From sink to source: high inter-annual variability in the carbon budget of a Southern African wetland. 2022 , 380, 20210148	1
79	Assessing the Effects of Time Interpolation of NDVI Composites on Phenology Trend Estimation. 2021 , 13, 5018	1
78	The Response of Vegetation Cover in the West Siberian Plain to Climate Changes in 1982-2015. 2021 , 57, 1732-1740	
77	Inter-Individual Budburst Variation in Is Driven by Warming Rate.. 2022 , 13, 853521	0
76	Diverse responses of vegetation phenology to changes in temperature and precipitation in northern China. 1-19	0
75	Current warming and likely future impacts. 262-366	
74	?????????????????????????????. 2022 ,	
73	Stimulation, Reduction and Compensation Growth, and Variable Phenological Responses to Spring and/or Summer/Autumn Warming in <i>Corylus Taxa</i> and <i>Cornus sanguinea</i> L.. 2022 , 13, 654	0
72	Direct and Legacy Effects of Spring Temperature Anomalies on Seasonal Productivity in Northern Ecosystems. 2022 , 14, 2007	0
71	Contrasting Effects of Nitrogen Addition on Vegetative Phenology in Dry and Wet Years in a Temperate Steppe on the Mongolian Plateau.. 2022 , 13, 861794	1
70	Comprehensive Quantification of the Responses of Ecosystem Production and Respiration to Drought Time Scale, Intensity and Timing in Humid Environments: A FLUXNET Synthesis. 2022 , 127,	2
69	Ecological Engineering Projects Shifted the Dominance of Human Activity and Climate Variability on Vegetation Dynamics. 2022 , 14, 2386	0
68	Temperature Mediates the Dynamic of MODIS NPP in Alpine Grassland on the Tibetan Plateau, 2001-2019. 2022 , 14, 2401	1
67	Climate Change Enhances the Positive Contribution of Human Activities to Vegetation restoration in China. 1-24	0
66	Impacts of Vegetation Changes on Land Evapotranspiration in China During 1982-2015. 2022 , 10,	
65	Phenology of fine root and shoot using high frequency temporal resolution images in a temperate larch forest. 2022 , 22, 100541	0
64	Changes in Soil Properties and Scots Pine Tree Growth Induced by Different Soil Ploughing Prior to Afforestation: A Case Study. 2022 , 13, 900	
63	Evaluation of Urban Vegetation Phenology Using 250 m MODIS Vegetation Indices. 2022 , 88, 461-467	

- 62 Photosynthesis phenology, as defined by solar-induced chlorophyll fluorescence, is overestimated by vegetation indices in the extratropical Northern Hemisphere. **2022**, 323, 109027 1
- 61 Hemiboreal forests CO₂ fluxes response to the European 2018 heatwave. **2022**, 323, 109042 1
- 60 Nitrogen deficiency in soil mediates multifunctionality responses to global climatic drivers. **2022**, 838, 156533 0
- 59 Response of Spruce Forest Ecosystem CO₂ Fluxes to Inter-Annual Climate Anomalies in the Southern Taiga. **2022**, 13, 1019 1
- 58 Characteristics of Freeze-Thaw Cycles in an Endorheic Basin on the Qinghai-Tibet Plateau Based on SBAS-InSAR Technology. **2022**, 14, 3168 0
- 57 Interannual trends of vegetation and responses to climate change and human activities in the Great Mekong Subregion. **2022**, 38, e02215 1
- 56 Impacts of climate change on vegetation phenology over the Great Lakes Region of Central Asia from 1982 to 2014. **2022**, 845, 157227 1
- 55 Warming response of peatland CO₂ sink is sensitive to seasonality in warming trends. **2022**, 12, 743-749 1
- 54 Global systematic review with meta-analysis shows that warming effects on terrestrial plant biomass allocation are influenced by precipitation and mycorrhizal association. **2022**, 13, 3
- 53 Inoculation with Arbuscular Mycorrhizal Fungi Alleviates the Adverse Effects of High Temperature in Soybean. **2022**, 11, 2210 0
- 52 Coupled Land-Sea Warming Dominates the Net Land Carbon Uptake Variability in the Greater Bay Area of South China. **2022**, 10, 0
- 51 Ecosystem gross primary productivity after autumn snowfall and melt events in a mountain meadow. 0
- 50 Warming does not delay the start of autumnal leaf coloration but slows its progress rate. 0
- 49 Trend in Satellite-Observed Vegetation Cover and Its Drivers in the Gannan Plateau, Upper Reaches of the Yellow River, from 2000 to 2020. **2022**, 14, 3849 0
- 48 What explains the year-to-year variation in growing season timing of boreal black spruce forests?. **2022**, 324, 109113 0
- 47 Forest Carbon Sequestration in Mountainous Region in Japan Under Ongoing Climate Change: Implication for Future Research. **2022**, 55-80 0
- 46 A Simple Method for Estimating the Permanent Wilting Point and its Key Influencing Factors. 0
- 45 Respiratory loss during late-growing season determines the net carbon dioxide sink in northern permafrost regions. **2022**, 13, 0

44	Identification of the Spring Green-Up Date Derived from Satellite-Based Vegetation Index over a Heterogeneous Ecoregion. 2022 , 14, 4349	0
43	Increased drought effects on the phenology of autumn leaf senescence. 2022 , 12, 943-949	1
42	Intercomparison of methods to estimate gross primary production based on CO ₂ and CO _S flux measurements. 2022 , 19, 4067-4088	1
41	A CNN-LSTM Model for Soil Organic Carbon Content Prediction with Long Time Series of MODIS-Based Phenological Variables. 2022 , 14, 4441	2
40	Recent increase in autumn temperature has stabilized tree growth in forests near the tree lines in Chilean Patagonia. 2022 , 13,	0
39	Evidence for older carbon loss with lowered water tables and changing plant functional groups in peatlands.	0
38	Maize Intercropping in the Traditional Milpa System. Physiological, Morphological, and Agronomical Parameters under Induced Warming: Evidence of related Effect of Climate Change in San Luis Potosí (Mexico). 2022 , 12, 1589	1
37	Warming delays but grazing advances leaf senescence of five plant species in an alpine meadow. 2022 , 159858	0
36	Spatial and Temporal Pattern and Influencing Factors of Vegetation Phenology and Net Primary Productivity in the Qilian Mountains of Northwest China. 2022 , 14, 14337	0
35	Variation of vegetation autumn phenology and its climatic drivers in temperate grasslands of China. 2022 , 114, 103064	1
34	Vegetation phenology and its ecohydrological implications from individual to global scales. 2022 ,	0
33	The responses of photosynthetic light response parameters to temperature among different seasons in a coniferous plantation of subtropical China. 2022 , 145, 109595	0
32	Future climate imposes pressure on vulnerable ecological regions in China. 2022 , 159995	0
31	Screening Soybean Genotypes for High-Temperature Tolerance by Maximin-Minimax Method Based on Yield Potential and Loss. 2022 , 12, 2854	0
30	Research progress and prospects of ecosystem carbon sequestration under climate change (1992-2022). 2022 , 145, 109656	0
29	Spatiotemporal variation of autumn phenology responses to pre-season drought and temperature in alpine and temperate grasslands in China. 2022 , 160373	0
28	Review of vegetation phenology trends in China in a changing climate. 2022 , 46, 829-845	1
27	Characterization of spatio-temporal patterns of grassland utilization intensity in the Selinco watershed of the Qinghai-Tibetan Plateau from 2001 to 2019 based on multisource remote sensing and artificial intelligence algorithms. 2022 , 59, 2217-2246	0

- 26 Early spring onset increases carbon uptake more than late fall senescence: modeling future phenological change in a US northern deciduous forest. ○
- 25 Linking Climate Sensitivity of Plant Phenology to Population Fitness in Alpine Meadow. **2022**, 127, ○
- 24 Earlier leaf senescence dates are constrained by soil moisture. ○
- 23 Effects of Phenological Changes on Plant Production From the View of *Stipa krylovii*. **2022**, 12, 3208 ○
- 22 Peatlands and their carbon dynamics in northern high latitudes from 1990 to 2300: a process-based biogeochemistry model analysis. **2023**, 20, 251-270 ○
- 21 Drylands amplified productivity increase than greening by enhanced light use efficiency. **2023**, ○
- 20 A stronger advance of urban spring vegetation phenology narrows vegetation productivity difference between urban settings and natural environments. **2023**, 161649 ○
- 19 Spatiotemporal Variation Characteristics and Dynamic Persistence Analysis of Carbon Sources/Sinks in the Yellow River Basin. **2023**, 15, 323 ○
- 18 Spatiotemporal dynamics of net primary productivity and its influencing factors in the middle reaches of the Yellow River from 2000 to 2020. 14, ○
- 17 Drought-induced increase in tree mortality and corresponding decrease in the carbon sink capacity of Canada's boreal forests from 1970 to 2020. ○
- 16 Effects of intra-annual precipitation patterns on grassland productivity moderated by the dominant species phenology. 14, ○
- 15 Factors of soil CO₂ emission in boreal forests: evidence from Central Siberia. **2023**, 16, 86-94 ○
- 14 Reduced Net CO₂ Uptake During Dry Summers in a Boreal Shield Peatland. **2023**, 128, ○
- 13 Interannual variability in the ecosystem CO₂ fluxes at a paludified spruce forest and ombrotrophic bog in the southern taiga. **2023**, 23, 2273-2291 1
- 12 Spatiotemporal changes in the boreal forest in Siberia over the period 1985-2015 against the background of climate change. **2023**, 14, 223-239 ○
- 11 Observations of Satellite Land Surface Phenology Indicate That Maximum Leaf Greenness Is More Associated With Global Vegetation Productivity Than Growing Season Length. **2023**, 37, ○
- 10 Decoupling and partitioning the effect of climate and afforestation on long-term vegetation greening in China since the 1990s. ○
- 9 A century of climate warming results in growing season extension: Delayed autumn leaf phenology in north central North America. **2023**, 18, e0282635 ○

- 8 Uncertainty of multi-source vegetation products on regional climate simulation in China. ○
- 7 Evaluating Carbon Sink Potential of Forest Ecosystems under Different Climate Change Scenarios in Yunnan, Southwest China. **2023**, 15, 1442 ○
- 6 Estimating suitable hydrothermal conditions for vegetation growth for land use cover across China based on maximum-probability-density monthly NDVI. **2023**, 30, 100958 ○
- 5 Spatiotemporal Patterns of Land Surface Phenology from 2001 to 2021 in the Agricultural Pastoral Ecotone of Northern China. **2023**, 15, 5830 ○
- 4 Incorporating ecological connectivity into ecological functional zoning: A case study in the middle reaches of Yangtze River urban agglomeration. **2023**, 75, 102098 ○
- 3 Vegetation greenness and photosynthetic phenology in response to climatic determinants. 6, ○
- 2 Shifting from a thermal-constrained to water-constrained ecosystem over the Tibetan Plateau. 14, ○
- 1 Phenology advances uniformly in spring but diverges in autumn among three temperate tree species in response to warming. **2023**, 336, 109475 ○