Yongshuo H Fu

List of Publications by Year
in descending order

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84 papers	6,909 citations	87723 38 h-index	62479 80 g-index
88 all docs	88 docs citations	88 times ranked	4706 citing authors

#	ARTICLE	IF	CITATIONS
1	Plant phenology and global climate change: Current progresses and challenges. Global Change Biology, 2019, 25, 1922-1940.	4.2	944
2	Declining global warming effects on the phenology of spring leaf unfolding. Nature, 2015, 526, 104-107.	13.7	637
3	Leaf onset in the northern hemisphere triggered by daytime temperature. Nature Communications, 2015, 6, 6911.	5.8	384
4	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. Global Change Biology, 2016, 22, 3702-3711.	4.2	319
5	Temperature, precipitation, and insolation effects on autumn vegetation phenology in temperate China. Global Change Biology, 2016, 22, 644-655.	4.2	294
6	Variation in leaf flushing date influences autumnal senescence and next yearâ€™s flushing date in two temperate tree species. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7355-7360.	3.3	254
7	Global warming leads to more uniform spring phenology across elevations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1004-1008.	3.3	237
8	Strong impacts of daily minimum temperature on the greenâ€up date and summer greenness of the Tibetan Plateau. Global Change Biology, 2016, 22, 3057-3066.	4.2	223
9	Recent spring phenology shifts in western <scp>C</scp>entral <scp>E</scp>urope based on multiscale observations. Global Ecology and Biogeography, 2014, 23, 1255-1263.	2.7	208
10	Extension of the growing season increases vegetation exposure to frost. Nature Communications, 2018, 9, 426.	5.8	190
11	Unexpected role of winter precipitation in determining heat requirement for spring vegetation greenâ€up at northern middle and high latitudes. Global Change Biology, 2014, 20, 3743-3755.	4.2	159
12	Increased heat requirement for leaf flushing in temperate woody species over 1980â€“2012: effects of chilling, precipitation and insolation. Global Change Biology, 2015, 21, 2687-2697.	4.2	158
13	Contrasting responses of autumn-leaf senescence to daytime and night-time warming. Nature Climate Change, 2018, 8, 1092-1096.	8.1	145
14	Integrated phenology and climate in rice yields prediction using machine learning methods. Ecological Indicators, 2021, 120, 106935.	2.6	128
15	Larger temperature response of autumn leaf senescence than spring leafâ€out phenology. Global Change Biology, 2018, 24, 2159-2168.	4.2	124
16	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. Nature Communications, 2019, 10, 2970.	5.8	119
17	Urbanâˆ’rural gradients reveal joint control of elevated CO2 and temperature on extended photosynthetic seasons. Nature Ecology and Evolution, 2019, 3, 1076-1085.	3.4	98
18	Sensitivity of leaf unfolding to experimental warming in three temperate tree species. Agricultural and Forest Meteorology, 2013, 181, 125-132.	1.9	95

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19	Daylength helps temperate deciduous trees to leafâ€out at the optimal time. Global Change Biology, 2019, 25, 2410-2418.	4.2	88
20	Experiments Are Necessary in Process-Based Tree Phenology Modelling. Trends in Plant Science, 2019, 24, 199-209.	4.3	84
21	The Impact of Winter and Spring Temperatures on Temperate Tree Budburst Dates: Results from an Experimental Climate Manipulation. PLoS ONE, 2012, 7, e47324.	1.1	83
22	Three times greater weight of daytime than of nightâ€time temperature on leaf unfolding phenology in temperate trees. New Phytologist, 2016, 212, 590-597.	3.5	82
23	An earlier start of the thermal growing season enhances tree growth in cold humid areas but not in dry areas. Nature Ecology and Evolution, 2022, 6, 397-404.	3.4	78
24	Matching the phenology of Net Ecosystem Exchange and vegetation indices estimated with MODIS and FLUXNET in-situ observations. Remote Sensing of Environment, 2016, 174, 290-300.	4.6	76
25	Bayesian comparison of six different temperature-based budburst models for four temperate tree species. Ecological Modelling, 2012, 230, 92-100.	1.2	74
26	Overestimation of the effect of climatic warming on spring phenology due to misrepresentation of chilling. Nature Communications, 2020, 11, 4945.	5.8	67
27	Spatial variance of spring phenology in temperate deciduous forests is constrained by background climatic conditions. Nature Communications, 2019, 10, 5388.	5.8	66
28	Legacy effect of spring phenology on vegetation growth in temperate China. Agricultural and Forest Meteorology, 2020, 281, 107845.	1.9	65
29	Spatial heterogeneity of changes in vegetation growth and their driving forces based on satellite observations of the Yarlung Zangbo River Basin in the Tibetan Plateau. Journal of Hydrology, 2019, 574, 324-332.	2.3	63
30	Short photoperiod reduces the temperature sensitivity of leafâ€out in saplings of <i>Fagus sylvatica</i> but not in horse chestnut. Global Change Biology, 2019, 25, 1696-1703.	4.2	63
31	Progress in plant phenology modeling under global climate change. Science China Earth Sciences, 2020, 63, 1237-1247.	2.3	55
32	Modified Red Blue Vegetation Index for Chlorophyll Estimation and Yield Prediction of Maize from Visible Images Captured by UAV. Sensors, 2020, 20, 5055.	2.1	52
33	Scaling Effects on Chlorophyll Content Estimations with RGB Camera Mounted on a UAV Platform Using Machine-Learning Methods. Sensors, 2020, 20, 5130.	2.1	51
34	Impact of microclimatic conditions and resource availability on spring and autumn phenology of temperate tree seedlings. New Phytologist, 2021, 232, 537-550.	3.5	49
35	Machine Learning-Based Approaches for Predicting SPAD Values of Maize Using Multi-Spectral Images. Remote Sensing, 2022, 14, 1337.	1.8	49
36	Photoperiod decelerates the advance of spring phenology of six deciduous tree species under climate warming. Global Change Biology, 2021, 27, 2914-2927.	4.2	48

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37	Phenological responses of Icelandic subarctic grasslands to shortâ€term and longâ€term natural soil warming. Global Change Biology, 2017, 23, 4932-4945.	4.2	47
38	Little change in heat requirement for vegetation green-up on the Tibetan Plateau over the warming period of 1998â€"2012. Agricultural and Forest Meteorology, 2017, 232, 650-658.	1.9	47
39	Simulating the onset of spring vegetation growth across the Northern Hemisphere. Global Change Biology, 2018, 24, 1342-1356.	4.2	44
40	InVEST Model-Based Estimation of Water Yield in North China and Its Sensitivities to Climate Variables. Water (Switzerland), 2020, 12, 1692.	1.2	43
41	Timing of rice maturity in China is affected more by transplanting date than by climate change. Agricultural and Forest Meteorology, 2016, 216, 215-220.	1.9	42
42	Decreasing control of precipitation on grassland spring phenology in temperate China. Global Ecology and Biogeography, 2021, 30, 490-499.	2.7	42
43	Modeling leaf senescence of deciduous tree species in Europe. Global Change Biology, 2020, 26, 4104-4118.	4.2	41
44	Widespread decline in winds delayed autumn foliar senescence over high latitudes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	41
45	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. Geophysical Research Letters, 2019, 46, 1641-1650.	1.5	40
46	Asymmetric effects of cooler and warmer winters on beech phenology last beyond spring. Global Change Biology, 2017, 23, 4569-4580.	4.2	39
47	Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. Tree Physiology, 2019, 39, 1277-1284.	1.4	37
48	Climate warming increases spring phenological differences among temperate trees. Global Change Biology, 2020, 26, 5979-5987.	4.2	37
49	Can changes in autumn phenology facilitate earlier green-up date of northern vegetation?. Agricultural and Forest Meteorology, 2020, 291, 108077.	1.9	36
50	Calibrating a hydrological model in a regional river of the Qinghaiâ€"Tibet plateau using river water width determined from high spatial resolution satellite images. Remote Sensing of Environment, 2018, 214, 100-114.	4.6	33
51	Extended growing season reduced river runoff in Luanhe River basin. Journal of Hydrology, 2020, 582, 124538.	2.3	27
52	UAV Multispectral Image-Based Urban River Water Quality Monitoring Using Stacked Ensemble Machine Learning Algorithmsâ€"A Case Study of the Zhanghe River, China. Remote Sensing, 2022, 14, 3272.	1.8	25
53	Integrating spectral and textural information for identifying the tasseling date of summer maize using UAV based RGB images. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102435.	1.4	24
54	Increasing terrestrial ecosystem carbon release in response to autumn cooling and warming. Nature Climate Change, 2022, 12, 380-385.	8.1	24

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55	Atmospheric brightening counteracts warmingâ€induced delays in autumn phenology of temperate trees in Europe. Global Ecology and Biogeography, 2021, 30, 2477-2487.	2.7	23
56	Flowering phenology of a widespread perennial herb shows contrasting responses to global warming between humid and nonâ€humid regions. Functional Ecology, 2020, 34, 1870-1881.	1.7	22
57	Shortened temperatureâ€relevant period of spring leafâ€out in temperateâ€zone trees. Global Change Biology, 2019, 25, 4282-4290.	4.2	20
58	Modelling leaf coloration dates over temperate China by considering effects of leafy season climate. Ecological Modelling, 2019, 394, 34-43.	1.2	20
59	Bayesian calibration of the Unified budburst model in six temperate tree species. International Journal of Biometeorology, 2012, 56, 153-164.	1.3	19
60	Increasing importance of precipitation in spring phenology with decreasing latitudes in subtropical forest area in China. Agricultural and Forest Meteorology, 2021, 304-305, 108427.	1.9	18
61	Integrating satellite observations and human water use data to estimate changes in key components of terrestrial water storage in a semi-arid region of North China. Science of the Total Environment, 2020, 698, 134171.	3.9	16
62	Soil thawing regulates the spring growth onset in tundra and alpine biomes. Science of the Total Environment, 2020, 742, 140637.	3.9	16
63	Integrating Spectral and Textural Information for Monitoring the Growth of Pear Trees Using Optical Images from the UAV Platform. Remote Sensing, 2021, 13, 1795.	1.8	16
64	Soil moisture determines the effects of climate warming on spring phenology in grasslands. Agricultural and Forest Meteorology, 2022, 323, 109039.	1.9	15
65	Divergent responses of phenology and growth to summer and autumnal warming. Global Change Biology, 2021, 27, 2905-2913.	4.2	14
66	Soil moisture regulates warming responses of autumn photosynthetic transition dates in subtropical forests. Global Change Biology, 2022, 28, 4935-4946.	4.2	13
67	Different determinants of radiation use efficiency in cold and temperate forests. Global Ecology and Biogeography, 2019, 28, 1649-1667.	2.7	12
68	Diverging models introduce large uncertainty in future climate warming impact on spring phenology of temperate deciduous trees. Science of the Total Environment, 2021, 757, 143903.	3.9	12
69	Response of Vegetation to Changes in Temperature and Precipitation at a Semi-Arid Area of Northern China Based on Multi-Statistical Methods. Forests, 2020, 11, 340.	0.9	11
70	Long-term linear trends mask phenological shifts. International Journal of Biometeorology, 2016, 60, 1611-1613.	1.3	9
71	Influences of Shifted Vegetation Phenology on Runoff Across a Hydroclimatic Gradient. Frontiers in Plant Science, 2021, 12, 802664.	1.7	8
72	The sensitivity of ginkgo leaf unfolding to the temperature and photoperiod decreases with increasing elevation. Agricultural and Forest Meteorology, 2022, 315, 108840.	1.9	8

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73	Air or soil temperature matters the responses of alpine plants in biomass accumulation to climate warming. Science of the Total Environment, 2022, 844, 157141.	3.9	8
74	Global warming increases latitudinal divergence in flowering dates of a perennial herb in humid regions across eastern Asia. Agricultural and Forest Meteorology, 2021, 296, 108209.	1.9	7
75	Comparison of Multi-Methods for Identifying Maize Phenology Using PhenoCams. Remote Sensing, 2022, 14, 244.	1.8	7
76	Higher temperature sensitivity of flowering than leafâ€out alters the time between phenophases across temperate tree species. Global Ecology and Biogeography, 2022, 31, 901-911.	2.7	7
77	Contrasting phenology responses to climate warming across the northern extra-tropics. Fundamental Research, 2022, 2, 708-715.	1.6	6
78	Climate warming shifts the time interval between flowering and leaf unfolding depending on the warming period. Science China Life Sciences, 2022, 65, 2316-2324.	2.3	5
79	Effects of Vegetation Phenology on Ecosystem Water Use Efficiency in a Semiarid Region of Northern China. Frontiers in Plant Science, 0, 13, .	1.7	5
80	Impacts of Climate and Phenology on the Yields of Early Mature Rice in China. Sustainability, 2020, 12, 10133.	1.6	4
81	Desert disturbance assessments of regional oil exploitation by Aster and ETM+ images in Taklimakan Desert China. Environmental Monitoring and Assessment, 2008, 144, 159-168.	1.3	3
82	Editorial: Experimental Manipulations to Predict Future Plant Phenology. Frontiers in Plant Science, 2020, 11, 637156.	1.7	3
83	Climate Warming Increased Spring Leaf-Out Variation Across Temperate Trees in China. Frontiers in Forests and Global Change, 2021, 4, .	1.0	2
84	Spatial Difference of Interactive Effect Between Temperature and Daylength on Ginkgo Budburst. Frontiers in Plant Science, 2022, 13, .	1.7	2