

Y Vitasse

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77
papers

4,734
citations

36
h-index

68
g-index

88
ext. papers

6,162
ext. citations

7.2
avg, IF

5.96
L-index

#	Paper	IF	Citations
77	Declining global warming effects on the phenology of spring leaf unfolding. <i>Nature</i> , 2015 , 526, 104-7	50.4	409
76	Leaf phenology sensitivity to temperature in European trees: Do within-species populations exhibit similar responses?. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 735-744	5.8	262
75	Assessing the effects of climate change on the phenology of European temperate trees. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 969-980	5.8	234
74	Responses of canopy duration to temperature changes in four temperate tree species: relative contributions of spring and autumn leaf phenology. <i>Oecologia</i> , 2009 , 161, 187-98	2.9	206
73	Altitudinal differentiation in growth and phenology among populations of temperate-zone tree species growing in a common garden. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 1259-1269	1.9	205
72	A first assessment of the impact of the extreme 2018 summer drought on Central European forests. <i>Basic and Applied Ecology</i> , 2020 , 45, 86-103	3.2	191
71	Variation in leaf flushing date influences autumnal senescence and next year's flushing date in two temperate tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7355-60	11.5	178
70	Quantifying phenological plasticity to temperature in two temperate tree species. <i>Functional Ecology</i> , 2010 , 24, 1211-1218	5.6	162
69	The interaction between freezing tolerance and phenology in temperate deciduous trees. <i>Frontiers in Plant Science</i> , 2014 , 5, 541	6.2	159
68	Global warming leads to more uniform spring phenology across elevations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1004-1008	11.5	140
67	What role for photoperiod in the bud burst phenology of European beech. <i>European Journal of Forest Research</i> , 2013 , 132, 1-8	2.7	133
66	Temperate and boreal forest tree phenology: from organ-scale processes to terrestrial ecosystem models. <i>Annals of Forest Science</i> , 2016 , 73, 5-25	3.1	132
65	Unexpected role of winter precipitation in determining heat requirement for spring vegetation green-up at northern middle and high latitudes. <i>Global Change Biology</i> , 2014 , 20, 3743-55	11.4	122
64	To what extent is altitudinal variation of functional traits driven by genetic adaptation in European oak and beech?. <i>Tree Physiology</i> , 2011 , 31, 1164-74	4.2	121
63	Where, why and how? Explaining the low-temperature range limits of temperate tree species. <i>Journal of Ecology</i> , 2016 , 104, 1076-1088	6	120
62	Ontogenic changes rather than difference in temperature cause understory trees to leaf out earlier. <i>New Phytologist</i> , 2013 , 198, 149-155	9.8	110
61	European deciduous trees exhibit similar safety margins against damage by spring freeze events along elevational gradients. <i>New Phytologist</i> , 2013 , 200, 1166-75	9.8	105

60	Increased heat requirement for leaf flushing in temperate woody species over 1980-2012: effects of chilling, precipitation and insolation. <i>Global Change Biology</i> , 2015 , 21, 2687-2697	11.4	103
59	Elevational adaptation and plasticity in seedling phenology of temperate deciduous tree species. <i>Oecologia</i> , 2013 , 171, 663-78	2.9	100
58	Shorter snow cover duration since 1970 in the Swiss Alps due to earlier snowmelt more than to later snow onset. <i>Climatic Change</i> , 2016 , 139, 637-649	4.5	99
57	Increase in the risk of exposure of forest and fruit trees to spring frosts at higher elevations in Switzerland over the last four decades. <i>Agricultural and Forest Meteorology</i> , 2018 , 248, 60-69	5.8	91
56	The relative importance of disturbance and environmental stress at local and regional scales in French coastal sand dunes. <i>Journal of Vegetation Science</i> , 2008 , 19, 493-502	3.1	79
55	Contrasting resistance and resilience to extreme drought and late spring frost in five major European tree species. <i>Global Change Biology</i> , 2019 , 25, 3781-3792	11.4	72
54	Earlier leaf-out rather than difference in freezing resistance puts juvenile trees at greater risk of damage than adult trees. <i>Journal of Ecology</i> , 2014 , 102, 981-988	6	67
53	Monitoring elevation variations in leaf phenology of deciduous broadleaf forests from SPOT/VEGETATION time-series. <i>Remote Sensing of Environment</i> , 2011 , 115, 615-627	13.2	66
52	Is the use of cuttings a good proxy to explore phenological responses of temperate forests in warming and photoperiod experiments?. <i>Tree Physiology</i> , 2014 , 34, 174-83	4.2	60
51	Tree recruitment of European tree species at their current upper elevational limits in the Swiss Alps. <i>Journal of Biogeography</i> , 2012 , 39, 1439-1449	4.1	56
50	Warmer winters reduce the advance of tree spring phenology induced by warmer springs in the Alps. <i>Agricultural and Forest Meteorology</i> , 2018 , 252, 220-230	5.8	55
49	Chilling and heat requirements for leaf unfolding in European beech and sessile oak populations at the southern limit of their distribution range. <i>International Journal of Biometeorology</i> , 2014 , 58, 1853-64	3.7	54
48	Daylength helps temperate deciduous trees to leaf-out at the optimal time. <i>Global Change Biology</i> , 2019 , 25, 2410-2418	11.4	50
47	Do the elevational limits of deciduous tree species match their thermal latitudinal limits?. <i>Global Ecology and Biogeography</i> , 2013 , 22, 913-923	6.1	46
46	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12192-12200	11.5	44
45	Convergence of leaf-out towards minimum risk of freezing damage in temperate trees. <i>Functional Ecology</i> , 2016 , 30, 1480-1490	5.6	44
44	Coordination between growth, phenology and carbon storage in three coexisting deciduous tree species in a temperate forest. <i>Tree Physiology</i> , 2016 , 36, 847-55	4.2	44
43	Frost hardening and dehardening potential in temperate trees from winter to budburst. <i>New Phytologist</i> , 2017 , 216, 113-123	9.8	43

42	Vapor-pressure deficit and extreme climatic variables limit tree growth. <i>Global Change Biology</i> , 2018 , 24, 1108-1122	11.4	43
41	How accurately can minimum temperatures at the cold limits of tree species be extrapolated from weather station data?. <i>Agricultural and Forest Meteorology</i> , 2014 , 184, 257-266	5.8	36
40	What is the potential of silver fir to thrive under warmer and drier climate?. <i>European Journal of Forest Research</i> , 2019 , 138, 547-560	2.7	34
39	Genetic vs. non-genetic responses of leaf morphology and growth to elevation in temperate tree species. <i>Functional Ecology</i> , 2014 , 28, 243-252	5.6	34
38	Short photoperiod reduces the temperature sensitivity of leaf-out in saplings of <i>Fagus sylvatica</i> but not in horse chestnut. <i>Global Change Biology</i> , 2019 , 25, 1696-1703	11.4	32
37	Are plant pathogen populations adapted for encounter with their host? A case study of phenological synchrony between oak and an obligate fungal parasite along an altitudinal gradient. <i>Journal of Evolutionary Biology</i> , 2010 , 23, 87-97	2.3	30
36	Unprecedented risk of spring frost damage in Switzerland and Germany in 2017. <i>Climatic Change</i> , 2018 , 149, 233-246	4.5	30
35	How do climate change experiments alter plot-scale climate?. <i>Ecology Letters</i> , 2019 , 22, 748-763	10	28
34	Asymmetric effects of cooler and warmer winters on beech phenology last beyond spring. <i>Global Change Biology</i> , 2017 , 23, 4569-4580	11.4	25
33	Fast acclimation of freezing resistance suggests no influence of winter minimum temperature on the range limit of European beech. <i>Tree Physiology</i> , 2016 , 36, 490-501	4.2	24
32	Intensity, frequency and spatial configuration of winter temperature inversions in the closed La Brevine valley, Switzerland. <i>Theoretical and Applied Climatology</i> , 2017 , 130, 1073-1083	3	21
31	Growth and carbon relations of temperate deciduous tree species at their upper elevation range limit. <i>Journal of Ecology</i> , 2014 , 102, 1537-1548	6	21
30	Climate warming increases spring phenological differences among temperate trees. <i>Global Change Biology</i> , 2020 , 26, 5979-5987	11.4	18
29	Unrestricted quality of seeds in European broad-leaved tree species growing at the cold boundary of their distribution. <i>Annals of Botany</i> , 2012 , 109, 473-80	4.1	16
28	Shifts in the temperature-sensitive periods for spring phenology in European beech and pedunculate oak clones across latitudes and over recent decades. <i>Global Change Biology</i> , 2020 , 26, 1808-1819	11.4	16
27	'Hearing' alpine plants growing after snowmelt: ultrasonic snow sensors provide long-term series of alpine plant phenology. <i>International Journal of Biometeorology</i> , 2017 , 61, 349-361	3.7	15
26	Chilled to be forced: the best dose to wake up buds from winter dormancy. <i>New Phytologist</i> , 2021 , 230, 1366-1377	9.8	14
25	Competition and demography rather than dispersal limitation slow down upward shifts of trees' upper elevation limits in the Alps. <i>Journal of Ecology</i> , 2020 , 108, 2416-2430	6	13

24	Unchanged risk of frost exposure for subalpine and alpine plants after snowmelt in Switzerland despite climate warming. <i>International Journal of Biometeorology</i> , 2018 , 62, 1755-1762	3.7	13
23	Phenological and elevational shifts of plants, animals and fungi under climate change in the European Alps. <i>Biological Reviews</i> , 2021 , 96, 1816-1835	13.5	13
22	Shortened temperature-relevant period of spring leaf-out in temperate-zone trees. <i>Global Change Biology</i> , 2019 , 25, 4282-4290	11.4	12
21	Daily Maximum Temperatures Induce Lagged Effects on Leaf Unfolding in Temperate Woody Species Across Large Elevational Gradients. <i>Frontiers in Plant Science</i> , 2019 , 10, 398	6.2	9
20	Impact of microclimatic conditions and resource availability on spring and autumn phenology of temperate tree seedlings. <i>New Phytologist</i> , 2021 , 232, 537-550	9.8	9
19	Number of growth days and not length of the growth period determines radial stem growth of temperate trees. <i>Ecology Letters</i> , 2021 ,	10	8
18	Früher Laubfall der Buche während der Sommertrockenheit 2018: Resistenz oder Schwächesyndrom?. <i>Schweizerische Zeitschrift Für Forstwesen</i> , 2020 , 171, 257-269	0.4	7
17	Atmospheric brightening counteracts warming-induced delays in autumn phenology of temperate trees in Europe. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2477	6.1	7
16	Premature leaf discoloration of European deciduous trees is caused by drought and heat in late spring and cold spells in early fall. <i>Agricultural and Forest Meteorology</i> , 2021 , 307, 108492	5.8	5
15	The frequency and severity of past droughts shape the drought sensitivity of juniper trees on the Tibetan plateau. <i>Forest Ecology and Management</i> , 2021 , 486, 118968	3.9	4
14	Long-term linear trends mask phenological shifts. <i>International Journal of Biometeorology</i> , 2016 , 60, 1611-1613	3.7	4
13	Post-glacial re-colonization and natural selection have shaped growth responses of silver fir across Europe. <i>Science of the Total Environment</i> , 2021 , 779, 146393	10.2	4
12	Phenological shifts induced by climate change amplify drought for broad-leaved trees at low elevations in Switzerland. <i>Agricultural and Forest Meteorology</i> , 2021 , 307, 108485	5.8	4
11	Impacts of a strong El Niño event on leaf phenology and carbon dioxide exchange in a secondary dry dipterocarp forest. <i>Agricultural and Forest Meteorology</i> , 2020 , 287, 107945	5.8	3
10	Rising air humidity during spring does not trigger leaf-out in temperate woody plants. <i>New Phytologist</i> , 2020 , 225, 16-20	9.8	3
9	High plasticity in germination and establishment success in the dominant forest tree <i>Fagus sylvatica</i> across Europe. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1583-1596	6.1	3
8	The great acceleration of plant phenological shifts. <i>Nature Climate Change</i> , 2022 , 12, 300-302	21.4	3
7	Assessing the relative importance of sunshine, temperature, precipitation, and spring phenology in regulating leaf senescence timing of herbaceous species in China. <i>Agricultural and Forest Meteorology</i> , 2022 , 313, 108770	5.8	2

6	Assessing the Effectiveness of Active Warming Combined With Open Top Chambers to Study Plant Responses to Climate Change. <i>Frontiers in Plant Science</i> , 2020 , 11, 539584	6.2	2
5	Impact of Severe Drought during the Strong 2015/2016 El Nino on the Phenology and Survival of Secondary Dry Dipterocarp Species in Western Thailand. <i>Forests</i> , 2019 , 10, 967	2.8	2
4	The sensitivity of ginkgo leaf unfolding to the temperature and photoperiod decreases with increasing elevation. <i>Agricultural and Forest Meteorology</i> , 2022 , 315, 108840	5.8	1
3	Quel avenir pour le sapin blanc en Suisse sous les effets des changements climatiques?. <i>Schweizerische Zeitschrift Fur Forstwesen</i> , 2018 , 169, 131-142	0.4	1
2	Higher temperature sensitivity of flowering than leaf-out alters the time between phenophases across temperate tree species. <i>Global Ecology and Biogeography</i> , 2022 , 31, 901-911	6.1	1
1	Temperature rather than individual growing period length determines radial growth of sessile oak in the Pyrenees. <i>Agricultural and Forest Meteorology</i> , 2022 , 317, 108885	5.8	0