Nicole Estrella

List of Publications by Year
in descending order

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51 papers	6,903 citations	172457 29 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	8320 citing authors

#	Article	IF	Citations
1	European phenological response to climate change matches the warming pattern. Global Change Biology, 2006, 12, 1969-1976.	9.5	2,412
2	Attributing physical and biological impacts to anthropogenic climate change. Nature, 2008, 453, 353-357.	27.8	1,210
3	Chilling outweighs photoperiod in preventing precocious spring development. Global Change Biology, 2014, 20, 170-182.	9.5	304
4	Changes to Airborne Pollen Counts across Europe. PLoS ONE, 2012, 7, e34076.	2.5	281
5	Trends and temperature response in the phenology of crops in Germany. Global Change Biology, 2007, 13, 1737-1747.	9.5	232
6	Spatial and temporal variability of the phenological seasons in Germany from 1951 to 1996. Global Change Biology, 2001, 7, 657-666.	9.5	226
7	Responses of leaf colouring in four deciduous tree species to climate and weather in Germany. Climate Research, 2006, 32, 253-267.	1.1	200
8	Altered geographic and temporal variability in phenology in response to climate change. Global Ecology and Biogeography, 2006, 15, 498-504.	5.8	195
9	Climate change fingerprints in recent European plant phenology. Global Change Biology, 2020, 26, 2599-2612.	9.5	179
10	Exceptional European warmth of autumn 2006 and winter 2007: Historical context, the underlying dynamics, and its phenological impacts. Geophysical Research Letters, 2007, 34, .	4.0	173
11	Variations of the climatological growing season (1951-2000) in Germany compared with other countries. International Journal of Climatology, 2003, 23, 793-812.	3.5	159
12	Changes in the phenology and composition of wine from Franconia, Germany. Climate Research, 2011, 50, 69-81.	1.1	102
13	Changes in first flowering dates and flowering duration of 232 plant species on the island of Guernsey. Global Change Biology, 2014, 20, 3508-3519.	9.5	90
14	Integration of flowering dates in phenology and pollen counts in aerobiology: analysis of their spatial and temporal coherence in Germany (1992â€“1999). International Journal of Biometeorology, 2006, 51, 49-59.	3.0	84
15	The influence of altitude and urbanisation on trends and mean dates in phenology (1980â€“2009). International Journal of Biometeorology, 2012, 56, 387-394.	3.0	78
16	Influence of altitude on phenology of selected plant species in the Alpine region (1971â€“2000). Climate Research, 2009, 39, 227-234.	1.1	77
17	'SSW to NNE' - North Atlantic Oscillation affects the progress of seasons across Europe. Global Change Biology, 2005, 11, 909-918.	9.5	66
18	Temperature response rates from long-term phenological records. Climate Research, 2005, 30, 21-28.	1.1	64

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19	Climate-Induced Changes in Grapevine Yield and Must Sugar Content in Franconia (Germany) between 1805 and 2010. PLoS ONE, 2013, 8, e69015.	2.5	61
20	Does humidity trigger tree phenology? Proposal for an air humidity based framework for bud development in spring. New Phytologist, 2014, 202, 350-355.	7.3	57
21	Impact of Urbanization on the Proteome of Birch Pollen and Its Chemotactic Activity on Human Granulocytes. International Archives of Allergy and Immunology, 2010, 151, 46-55.	2.1	52
22	Effects of temperature, phase type and timing, location, and human density on plant phenological responses in Europe. Climate Research, 2009, 39, 235-248.	1.1	50
23	Spatial and temporal variability of the phenological seasons in Germany from 1951 to 1996. Global Change Biology, 2001, 7, 657-666.	9.5	46
24	Bayesian analysis of the species-specific lengthening of the growing season in two European countries and the influence of an insect pest. International Journal of Biometeorology, 2008, 52, 209-218.	3.0	46
25	Effects of recent warm and cold spells on European plant phenology. International Journal of Biometeorology, 2011, 55, 921-932.	3.0	46
26	Recent and future climate extremes arising from changes to the bivariate distribution of temperature and precipitation in Bavaria, Germany. International Journal of Climatology, 2013, 33, 1687-1695.	3.5	35
27	Plant Phenological Changes. , 2001, , 123-137.		35
28	The use of Bayesian analysis to detect recent changes in phenological events throughout the year. Agricultural and Forest Meteorology, 2006, 141, 179-191.	4.8	32
29	First flowering of windâ€pollinated species with the greatest phenological advances in Europe. Ecography, 2012, 35, 1017-1023.	4.5	32
30	Spatial variation in onset dates and trends in phenology across Europe. Climate Research, 2009, 39, 249-260.	1.1	32
31	Spatio-temporal investigation of flowering dates and pollen counts in the topographically complex Zugspitze area on the Germanâ€“Austrian border. Aerobiologia, 2012, 28, 541-556.	1.7	30
32	A comparison of methods to estimate seasonal phenological development from BBCH scale recording. International Journal of Biometeorology, 2011, 55, 867-877.	3.0	25
33	Shifting and extension of phenological periods with increasing temperature along elevational transects in southern <scp>B</scp>avaria. Plant Biology, 2014, 16, 332-344.	3.8	24
34	Grass pollen production and group V allergen content of agriculturally relevant species and cultivars. PLoS ONE, 2018, 13, e0193958.	2.5	22
35	Changes in the timing of hay cutting in Germany do not keep pace with climate warming. Global Change Biology, 2013, 19, 3123-3132.	9.5	20
36	High post-season Alnus pollen loads successfully identified as long-range transport of an alpine species. Atmospheric Environment, 2020, 231, 117453.	4.1	16

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37	Multiple-year assessment of phenological plasticity within a beech (Fagus sylvatica L.) stand in southern Germany. Agricultural and Forest Meteorology, 2015, 211-212, 13-22.	4.8	15
38	A First Pre-season Pollen Transport Climatology to Bavaria, Germany. Frontiers in Allergy, 2021, 2, 627863.	2.8	14
39	The impacts of climate change on the winter hardiness zones of woody plants in Europe. Theoretical and Applied Climatology, 2013, 113, 683-695.	2.8	13
40	Machine Learning Approach to Classify Rain Type Based on Thies Disdrometers and Cloud Observations. Atmosphere, 2019, 10, 251.	2.3	11
41	Effects of weather, air pollution and Oktoberfest on ambulance-transported emergency department admissions in Munich, Germany. Science of the Total Environment, 2021, 755, 143772.	8.0	11
42	Precipitation Diurnal Cycle in Germany Linked to Large-Scale Weather Circulations. Atmosphere, 2019, 10, 545.	2.3	10
43	Impact of elevated air temperature and drought on pollen characteristics of major agricultural grass species. PLoS ONE, 2021, 16, e0248759.	2.5	7
44	Comprehensive methodological analysis of longâ€term changes in phenological extremes in Germany. Global Change Biology, 2012, 18, 2349-2364.	9.5	6
45	Climate sensitivity and variation in first flowering of 26 Narcissus cultivars. International Journal of Biometeorology, 2015, 59, 477-480.	3.0	4
46	Does Coltsfoot (Tussilago farfara L.) have an autumn temperature control to limit precocious flowering in spring?. International Journal of Climatology, 2020, 40, 4518-4527.	3.5	4
47	Maps, trends, and temperature sensitivitiesâ€”phenological information from and for decreasing numbers of volunteer observers. International Journal of Biometeorology, 2021, 65, 1377-1390.	3.0	4
48	Impact of Local Grasslands on Wild Grass Pollen Emission in Bavaria, Germany. Land, 2022, 11, 306.	2.9	3
49	Weather Types Affect Rain Microstructure: Implications for Estimating Rain Rate. Remote Sensing, 2020, 12, 3572.	4.0	2
50	The Influence of Weather on Fatal Accidents in Austrian Mountains. Weather, Climate, and Society, 2022, 14, 303-310.	1.1	2
51	Long-term flowering intensity of European tree species under the influence of climatic and resource dynamic variables. Agricultural and Forest Meteorology, 2022, 323, 109074.	4.8	2