Annette Menzel

List of Publications by Year
in descending order

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224 papers	26,350 citations	28274 55 h-index	6471 157 g-index
234 all docs	234 docs citations	234 times ranked	24615 citing authors

#	Article	IF	Citations
1	Disentangling effects of climate and land use on biodiversity and ecosystem servicesâ€”A multiâ€scale experimental design. Methods in Ecology and Evolution, 2022, 13, 514-527.	5.2	15
2	Indoor Pollen Concentrations of Mountain Cedar (Juniperus ashei) during Rainy Episodes in Austin, Texas. International Journal of Environmental Research and Public Health, 2022, 19, 1541.	2.6	5
3	Modelling the Relative Abundance of Roe Deer (Capreolus capreolus L.) along a Climate and Land-Use Gradient. Animals, 2022, 12, 222.	2.3	3
4	Disturbance and indirect effects of climate warming support a plant invader in mountains. Oikos, 2022, 2022, .	2.7	3
5	The Influence of Weather on Fatal Accidents in Austrian Mountains. Weather, Climate, and Society, 2022, 14, 303-310.	1.1	2
6	Impact of Local Grasslands on Wild Grass Pollen Emission in Bavaria, Germany. Land, 2022, 11, 306.	2.9	3
7	Climate-change-driven growth decline of European beech forests. Communications Biology, 2022, 5, 163.	4.4	89
8	Jet stream position explains regional anomalies in European beech forest productivity and tree growth. Nature Communications, 2022, 13, 2015.	12.8	8
9	Evergreen broadleaf greenness and its relationship with leaf flushing, aging, and water fluxes. Agricultural and Forest Meteorology, 2022, 323, 109060.	4.8	3
10	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
11	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
12	A First Pre-season Pollen Transport Climatology to Bavaria, Germany. Frontiers in Allergy, 2021, 2, 627863.	2.8	14
13	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
14	Impact of elevated air temperature and drought on pollen characteristics of major agricultural grass species. PLoS ONE, 2021, 16, e0248759.	2.5	7
15	Change in erosion potential of crops due to climate change. Agricultural and Forest Meteorology, 2021, 300, 108338.	4.8	5
16	Establishing the twig method for investigations on pollen characteristics of allergenic tree species. International Journal of Biometeorology, 2021, 65, 1983-1993.	3.0	3
17	Weather conditions during hunting season affect the number of harvested roe deer (<i>Capreolus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	4
18	Ground and satellite phenology in alpine forests are becoming more heterogeneous across higher elevations with warming. Agricultural and Forest Meteorology, 2021, 303, 108383.	4.8	18

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19	Climate sensitivity and drought seasonality determine post-drought growth recovery of Quercus petraea and Quercus robur in Europe. Science of the Total Environment, 2021, 784, 147222.	8.0	61
20	Effects of future climate change on birch abundance and their pollen load. Global Change Biology, 2021, 27, 5934-5949.	9.5	33
21	Summable C factors for contemporary soil use. Soil and Tillage Research, 2021, 213, 105155.	5.6	10
22	Diverging growth performance of co-occurring trees (Picea abies) and shrubs (Pinus mugo) at the treeline ecotone of Central European mountain ranges. Agricultural and Forest Meteorology, 2021, 308-309, 108608.	4.8	6
23	Agricultural Drought Detection with MODIS Based Vegetation Health Indices in Southeast Germany. Remote Sensing, 2021, 13, 3907.	4.0	27
24	Climate Effects on Vertical Forest Phenology of Fagus sylvatica L., Sensed by Sentinel-2, Time Lapse Camera, and Visual Ground Observations. Remote Sensing, 2021, 13, 3982.	4.0	5
25	Universal thermal climate index associations with mortality, hospital admissions, and road accidents in Bavaria. PLoS ONE, 2021, 16, e0259086.	2.5	7
26	Pollen forecasts in complex topography: two case studies from the Alps using the numerical pollen forecast model COSMO-ART. Aerobiologia, 2020, 36, 25-30.	1.7	11
27	Historical changes in the stomatal limitation of photosynthesis: empirical support for an optimality principle. New Phytologist, 2020, 225, 2484-2497.	7.3	39
28	Corrigendum to: Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. International Journal of Wildland Fire, 2020, 29, 560.	2.4	5
29	Climate warming increases spring phenological differences among temperate trees. Global Change Biology, 2020, 26, 5979-5987.	9.5	37
30	Chilling and Forcing From Cut Twigsâ€"How to Simplify Phenological Experiments for Citizen Science. Frontiers in Plant Science, 2020, 11, 561413.	3.6	12
31	ClimateEU, scale-free climate normals, historical time series, and future projections for Europe. Scientific Data, 2020, 7, 428.	5.3	55
32	Weather Types Affect Rain Microstructure: Implications for Estimating Rain Rate. Remote Sensing, 2020, 12, 3572.	4.0	2
33	Growth and resilience responses of Scots pine to extreme droughts across Europe depend on predrought growth conditions. Global Change Biology, 2020, 26, 4521-4537.	9.5	105
34	Thunderstorm Asthma: In Search For Relationships With Airborne Pollen And Fungal Spores From 23 Sites In Bavaria, Germany. A Rare Incident Or A Common Threat?. Journal of Allergy and Clinical Immunology, 2020, 145, AB336.	2.9	9
35	Assessment of Urban CO2 Measurement and Source Attribution in Munich Based on TDLAS-WMS and Trajectory Analysis. Atmosphere, 2020, 11, 58.	2.3	20
36	Climate change fingerprints in recent European plant phenology. Global Change Biology, 2020, 26, 2599-2612.	9.5	179

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37	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
38	Nutrients and water availability constrain the seasonality of vegetation activity in a Mediterranean ecosystem. Global Change Biology, 2020, 26, 4379-4400.	9.5	27
39	High post-season Alnus pollen loads successfully identified as long-range transport of an alpine species. Atmospheric Environment, 2020, 231, 117453.	4.1	16
40	Estimation of surface dead fine fuel moisture using automated fuel moisture sticks across a range of forests worldwide. International Journal of Wildland Fire, 2020, 29, 548.	2.4	20
41	Functional xylem anatomy of aspen exhibits greater change due to insect defoliation than to drought. Tree Physiology, 2019, 39, 45-54.	3.1	14
42	Characterization of differential throughfall drop size distributions beneath European beech and Norway spruce. Hydrological Processes, 2019, 33, 3391-3406.	2.6	11
43	Predicting the start, peak and end of the Betula pollen season in Bavaria, Germany. Science of the Total Environment, 2019, 690, 1299-1309.	8.0	22
44	Pollution Events at the High-Altitude Mountain Site Zugspitze-Schneefernerhaus (2670 m a.s.l.), Germany. Atmosphere, 2019, 10, 330.	2.3	11
45	Building an automatic pollen monitoring network (ePIN): Selection of optimal sites by clustering pollen stations. Science of the Total Environment, 2019, 688, 1263-1274.	8.0	40
46	Adaptive limitations of white spruce populations to drought imply vulnerability to climate change in its western range. Evolutionary Applications, 2019, 12, 1850-1860.	3.1	25
47	Precipitation Diurnal Cycle in Germany Linked to Large-Scale Weather Circulations. Atmosphere, 2019, 10, 545.	2.3	10
48	Compensatory Growth of Scots Pine Seedlings Mitigates Impacts of Multiple Droughts Within and Across Years. Frontiers in Plant Science, 2019, 10, 519.	3.6	18
49	Machine Learning Approach to Classify Rain Type Based on Thies Disdrometers and Cloud Observations. Atmosphere, 2019, 10, 251.	2.3	11
50	On the diurnal, weekly, and seasonal cycles and annual trends in atmospheric CO₂ at Mount Zugspitze, Germany, during 1981â€“2016. Atmospheric Chemistry and Physics, 2019, 19, 999-1012.	4.9	24
51	The allergen riddle. Nature Ecology and Evolution, 2019, 3, 716-717.	7.8	6
52	Comparison of Continuous In-Situ CO2 Measurements with Co-Located Column-Averaged XCO2 TCCON/Satellite Observations and CarbonTracker Model Over the Zugspitze Region. Remote Sensing, 2019, 11, 2981.	4.0	7
53	Spatial interpolation of current airborne pollen concentrations where no monitoring exists. Atmospheric Environment, 2019, 199, 435-442.	4.1	17
54	Validation of drought indices using environmental indicators: streamflow and carbon flux data. Agricultural and Forest Meteorology, 2019, 265, 218-226.	4.8	19

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55	Regional trend changes in recent surface warming. Climate Dynamics, 2019, 52, 6463-6473.	3.8	3
56	Decrease or increase? Temporal changes in pollen concentrations assessed by Bayesian statistics. Aerobiologia, 2019, 35, 153-163.	1.7	9
57	Geographical adaptation prevails over speciesâ€specific determinism in treesâ€™ vulnerability to climate change at Mediterranean rearâ€edge forests. Global Change Biology, 2019, 25, 1296-1314.	9.5	55
58	Atmospheric CO2 and Î´13C Measurements from 2012 to 2014 at the Environmental Research Station Schneefernerhaus, Germany: Technical Corrections, Temporal Variations and Trajectory Clustering. Aerosol and Air Quality Research, 2019, 19, 657-670.	2.1	9
59	Traits and climate are associated with first flowering day in herbaceous species along elevational gradients. Ecology and Evolution, 2018, 8, 1147-1158.	1.9	43
60	Soil water storage appears to compensate for climatic aridity at the xeric margin of European tree species distribution. European Journal of Forest Research, 2018, 137, 79-92.	2.5	17
61	Increased waterâ€use efficiency translates into contrasting growth patterns of Scots pine and sessile oak at their southern distribution limits. Global Change Biology, 2018, 24, 1012-1028.	9.5	41
62	Relationship between Spatiotemporal Variations of Climate, Snow Cover and Plant Phenology over the Alpsâ€”An Earth Observation-Based Analysis. Remote Sensing, 2018, 10, 1757.	4.0	39
63	Are Scots pine forest edges particularly prone to drought-induced mortality?. Environmental Research Letters, 2018, 13, 025001.	5.2	96
64	LiDAR derived topography and forest stand characteristics largely explain the spatial variability observed in MODIS land surface phenology. Remote Sensing of Environment, 2018, 218, 231-244.	11.0	24
65	Climatically controlled reproduction drives interannual growth variability in a temperate tree species. Ecology Letters, 2018, 21, 1833-1844.	6.4	92
66	Adaptive selection of diurnal minimum variation: a statistical strategy to obtain representative atmospheric CO₂ data and its application to European elevated mountain stations. Atmospheric Measurement Techniques, 2018, 11, 1501-1514.	3.1	16
67	8 million phenological and sky images from 29 ecosystems from the Arctic to the tropics: the Phenological Eyes Network. Ecological Research, 2018, 33, 1091-1092.	1.5	37
68	A four year survey reveals a coherent pattern between occurrence of fruit bodies and soil amoebae populations for nivicolous myxomycetes. Scientific Reports, 2018, 8, 11662.	3.3	18
69	Rain Microstructure Parameters Vary with Large-Scale Weather Conditions in Lausanne, Switzerland. Remote Sensing, 2018, 10, 811.	4.0	15
70	Characterizing Alpine pyrogeography from fire statistics. Applied Geography, 2018, 98, 87-99.	3.7	28
71	Grass pollen production and group V allergen content of agriculturally relevant species and cultivars. PLoS ONE, 2018, 13, e0193958.	2.5	22
72	Projecting Tree Species Composition Changes of European Forests for 2061â€“2090 Under RCP 4.5 and RCP 8.5 Scenarios. Frontiers in Plant Science, 2018, 9, 1986.	3.6	133

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73	Testing Water Yield, Efficiency of Different Meshes and Water Quality with a Novel Fog Collector for High Wind Speeds. Aerosol and Air Quality Research, 2018, 18, 240-253.	2.1	23
74	Changes in spring arrival dates and temperature sensitivity of migratory birds over two centuries. International Journal of Biometeorology, 2017, 61, 1279-1289.	3.0	9
75	Testing the stability of transfer functions. Dendrochronologia, 2017, 42, 56-62.	2.2	24
76	Different responses of multispecies tree ring growth to various drought indices across Europe. Dendrochronologia, 2017, 44, 1-8.	2.2	63
77	Monitoring succession after a non-cleared windthrow in a Norway spruce mountain forest using webcam, satellite vegetation indices and turbulent CO 2 exchange. Agricultural and Forest Meteorology, 2017, 244-245, 72-81.	4.8	14
78	Large-scale atmospheric circulation enhances the Mediterranean East-West tree growth contrast at rear-edge deciduous forests. Agricultural and Forest Meteorology, 2017, 239, 86-95.	4.8	27
79	Impacts of land clearance by fire on spatial variation of mountain cedar pollen concentrations in Texas. Landscape and Urban Planning, 2017, 162, 178-186.	7.5	5
80	Fine fuel moisture for site- and species-specific fire danger assessment in comparison to fire danger indices. Agricultural and Forest Meteorology, 2017, 234-235, 31-47.	4.8	25
81	Soil properties affect the drought susceptibility of Norway spruce. Dendrochronologia, 2017, 45, 81-89.	2.2	50
82	Climate threats on growth of rear-edge European beech peripheral populations in Spain. International Journal of Biometeorology, 2017, 61, 2097-2110.	3.0	12
83	Xylem adjustment of sessile oak at its southern distribution limits. Tree Physiology, 2017, 37, 903-914.	3.1	24
84	The Tree Drought Emission MONitor (Tree DEMON), an innovative system for assessing biogenic volatile organic compounds emission from plants. Plant Methods, 2017, 13, 14.	4.3	6
85	Indoor birch pollen concentrations differ with ventilation scheme, room location, and meteorological factors. Indoor Air, 2017, 27, 539-550.	4.3	23
86	Quantification of monoterpene emission sources of a conifer species in response to experimental drought. AoB PLANTS, 2017, 9, plx045.	2.3	15
87	Spatiotemporal variations of alpine climate, snow cover and phenology. , 2017, , .		2
88	Contrasting Hydraulic Architectures of Scots Pine and Sessile Oak at Their Southernmost Distribution Limits. Frontiers in Plant Science, 2017, 8, 598.	3.6	17
89	Exploring Relationships among Tree-Ring Growth, Climate Variability, and Seasonal Leaf Activity on Varying Timescales and Spatial Resolutions. Remote Sensing, 2017, 9, 526.	4.0	38
90	Responses of Contrasting Tree Functional Types to Air Warming and Drought. Forests, 2017, 8, 450.	2.1	17

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91	Interactions between temperature and drought in global and regional crop yield variability during 1961-2014. PLoS ONE, 2017, 12, e0178339.	2.5	174
92	Gesundheit. , 2017, , 137-149.		12
93	Automated processing of webcam images for phenological classification. PLoS ONE, 2017, 12, e0171918.	2.5	7
94	Comparison of different methods for the in situ measurement of forest litter moisture content. Natural Hazards and Earth System Sciences, 2016, 16, 403-415.	3.6	16
95	Seasonal and Diurnal Variation of Formaldehyde and its Meteorological Drivers at the GAW Site Zugspitze. Aerosol and Air Quality Research, 2016, 16, 801-815.	2.1	19
96	Above-Ground Dimensions and Acclimation Explain Variation in Drought Mortality of Scots Pine Seedlings from Various Provenances. Frontiers in Plant Science, 2016, 7, 1014.	3.6	31
97	Diverging Drought Resistance of Scots Pine Provenances Revealed by Infrared Thermography. Frontiers in Plant Science, 2016, 7, 1247.	3.6	31
98	Effects of Different Methods on the Comparison between Land Surface and Ground Phenologyâ€”A Methodological Case Study from South-Western Germany. Remote Sensing, 2016, 8, 753.	4.0	37
99	Long-term linear trends mask phenological shifts. International Journal of Biometeorology, 2016, 60, 1611-1613.	3.0	9
100	Three times greater weight of daytime than of nightâ€time temperature on leaf unfolding phenology in temperate trees. New Phytologist, 2016, 212, 590-597.	7.3	82
101	Elevational response in leaf and xylem phenology reveals different prolongation of growing period of common beech and Norway spruce under warming conditions in the Bavarian Alps. European Journal of Forest Research, 2016, 135, 1011-1023.	2.5	43
102	Impact of summer drought on isoprenoid emissions and carbon sink of three Scots pine provenances. Tree Physiology, 2016, 36, 1382-1399.	3.1	14
103	Impacts of Climate Change on Aeroallergen Production and Atmospheric Concentration. , 2016, , 10-28.		5
104	Asymmetric trends in seasonal temperature variability in instrumental records from ten stations in Switzerland, Germany and the <scp>UK</scp> from 1864 to 2012. International Journal of Climatology, 2016, 36, 13-27.	3.5	34
105	Can we detect a nonlinear response to temperature in European plant phenology?. International Journal of Biometeorology, 2016, 60, 1551-1561.	3.0	47
106	Climatic marginality: a new metric for the susceptibility of tree species to warming exemplified by Fagus sylvatica (L.) and Ellenbergâ€™s quotient. European Journal of Forest Research, 2016, 135, 137-152.	2.5	29
107	Seasonal variation of birch and grass pollen loads and allergen release at two sites in the German Alps. Atmospheric Environment, 2015, 122, 83-93.	4.1	34
108	Can positive matrix factorization help to understand patterns of organic trace gases at the continental Global Atmosphere Watch site Hohenpeissenberg?. Atmospheric Chemistry and Physics, 2015, 15, 1221-1236.	4.9	18

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109	Effects of temperature and drought manipulations on seedlings of <scp>S</scp>cots pine provenances. Plant Biology, 2015, 17, 361-372.	3.8	47
110	Does flower phenology mirror the slowdown of global warming?. Ecology and Evolution, 2015, 5, 2284-2295.	1.9	18
111	Urban phenological studies â€“ Past, present, future. Environmental Pollution, 2015, 203, 250-261.	7.5	102
112	Climate sensitivity and variation in first flowering of 26 Narcissus cultivars. International Journal of Biometeorology, 2015, 59, 477-480.	3.0	4
113	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
114	Patterns of late spring frost leaf damage and recovery in a European beech (Fagus sylvatica L.) stand in south-eastern Germany based on repeated digital photographs. Frontiers in Plant Science, 2015, 6, 110.	3.6	62
115	From observations to experiments in phenology research: investigating climate change impacts on trees and shrubs using dormant twigs. Annals of Botany, 2015, 116, 889-897.	2.9	67
116	Small differences in seasonal and thermal niches influence elevational limits of native and invasive Balsams. Biological Conservation, 2015, 191, 682-691.	4.1	12
117	Declining global warming effects on the phenology of spring leaf unfolding. Nature, 2015, 526, 104-107.	27.8	637
118	The effects of short- and long-term air pollutants on plant phenology and leaf characteristics. Environmental Pollution, 2015, 206, 382-389.	7.5	45
119	Vertical variation in autumn leaf phenology of Fagus sylvatica L. in southern Germany. Agricultural and Forest Meteorology, 2015, 201, 176-186.	4.8	36
120	Influence of climate drivers and the North Atlantic Oscillation on beech growth at marginal sites across the Mediterranean. Climate Research, 2015, 66, 229-242.	1.1	22
121	Forecasting bark beetle early flight activity with plant phenology. Climate Research, 2015, 66, 161-170.	1.1	4
122	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
123	Frequency of inversions affects senescence phenology of Acer pseudoplatanus and Fagus sylvatica. International Journal of Biometeorology, 2014, 58, 485-498.	3.0	23
124	Using phenological cameras to track the green up in a cerrado savanna and its on-the-ground validation. Ecological Informatics, 2014, 19, 62-70.	5.2	65
125	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
126	Patterns of drought tolerance in major European temperate forest trees: climatic drivers and levels of variability. Global Change Biology, 2014, 20, 3767-3779.	9.5	267

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127	Impacts of temperature and water table manipulation on grassland phenology. Applied Vegetation Science, 2014, 17, 625-635.	1.9	9
128	Chilling outweighs photoperiod in preventing precocious spring development. Global Change Biology, 2014, 20, 170-182.	9.5	304
129	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.	5.8	208
130	Using digital camera images to analyse snowmelt and phenology of a subalpine grassland. Agricultural and Forest Meteorology, 2014, 198-199, 116-125.	4.8	75
131	Twenty years of successful papers in Global Change Biology. Global Change Biology, 2014, 20, 3587-3590.	9.5	0
132	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
133	Quantifying Extreme Risks. , 2014, , 151-181.		7
134	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
135	Linking altitudinal gradients and temperature responses of plant phenology in the Bavarian Alps. Plant Biology, 2013, 15, 57-69.	3.8	49
136	Equilibrium moisture content of dead fine fuels of selected central European tree species. International Journal of Wildland Fire, 2013, 22, 797.	2.4	15
137	Projection of fire potential to future climate scenarios in the Alpine area: some methodological considerations. Climatic Change, 2013, 119, 733-746.	3.6	4
138	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
139	Flux-Based Ozone Risk Assessment for Adult Beech and Spruce Forests. Developments in Environmental Science, 2013, 13, 251-266.	0.5	7
140	Using phenology to assess urban heat islands in tropical and temperate regions. International Journal of Climatology, 2013, 33, 3141-3151.	3.5	44
141	Impact of climate and drought events on the growth of Scots pine (Pinus sylvestris L.) provenances. Forest Ecology and Management, 2013, 307, 30-42.	3.2	93
142	Large-scale genetic structure and drought-induced effects on European Scots pine (Pinus sylvestris L.) seedlings. European Journal of Forest Research, 2013, 132, 481-496.	2.5	32
143	A plant's perspective of extremes: terrestrial plant responses to changing climatic variability. Global Change Biology, 2013, 19, 75-89.	9.5	393
144	Plant Phenology Changes and Climate Change. , 2013, , 103-108.		3

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145	Large-scale weather types, forest fire danger, and wildfire occurrence in the Alps. Agricultural and Forest Meteorology, 2013, 168, 15-25.	4.8	46
146	Detecting plant seasonality from webcams using Bayesian multiple change point analysis. Agricultural and Forest Meteorology, 2013, 168, 177-185.	4.8	28
147	Estimation of soil loss by water erosion in the Chinese Loess Plateau using Universal Soil Loss Equation and GRACE. Geophysical Journal International, 2013, 193, 1283-1290.	2.4	20
148	Can spatial data substitute temporal data in phenological modelling? A survey using birch flowering. Tree Physiology, 2013, 33, 1256-1268.	3.1	46
149	Nutrient status: a missing factor in phenological and pollen research?. Journal of Experimental Botany, 2013, 64, 2081-2092.	4.8	46
150	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
151	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
152	Phenological response of grassland species to manipulative snowmelt and drought along an altitudinal gradient. Journal of Experimental Botany, 2013, 64, 241-251.	4.8	38
153	Forest fire danger rating in complex topography â€“ results from a case study in the Bavarian Alps in autumn 2011. Natural Hazards and Earth System Sciences, 2013, 13, 2157-2167.	3.6	19
154	High Environmental Ozone Levels Lead to Enhanced Allergenicity of Birch Pollen. PLoS ONE, 2013, 8, e80147.	2.5	147
155	Plant Phenological â€œFingerprintsâ€• , 2013, , 335-350.		11
156	Meteorological Influences on Swarm Emergence in Honey Bees (Hymenoptera: Apidae) as Detected by Crowdsourcing. Environmental Entomology, 2012, 41, 1462-1465.	1.4	6
157	Flux-based ozone risk assessment for adult beech forests. Trees - Structure and Function, 2012, 26, 1713-1721.	1.9	13
158	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
159	Recent climate change: Long-term trends in meteorological forest fire danger in the Alps. Agricultural and Forest Meteorology, 2012, 162-163, 1-13.	4.8	57
160	First flowering of windâ€pollinated species with the greatest phenological advances in Europe. Ecography, 2012, 35, 1017-1023.	4.5	32
161	Assessing stand structure of beech and spruce from measured spectral radiation properties and modeled leaf biomass parameters. Agricultural and Forest Meteorology, 2012, 165, 82-91.	4.8	13
162	Comprehensive methodological analysis of longâ€term changes in phenological extremes in Germany. Global Change Biology, 2012, 18, 2349-2364.	9.5	6

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163	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
164	Solar Radiation as a Driver for Growth and Competition in Forest Stands. Ecological Studies, 2012, , 175-191.	1.2	12
165	Changes to Airborne Pollen Counts across Europe. PLoS ONE, 2012, 7, e34076.	2.5	281
166	The integration of plant phenology and land use data to create a GIS-assisted bioclimatic characterisation of Bavaria, Germany. Plant Ecology and Diversity, 2011, 4, 91-101.	2.4	5
167	Vertical variability of spectral ratios in a mature mixed forest stand. Agricultural and Forest Meteorology, 2011, 151, 1096-1105.	4.8	31
168	Spatial variability of photosynthetically active radiation in European beech and Norway spruce. Agricultural and Forest Meteorology, 2011, 151, 1226-1232.	4.8	39
169	A comparison of methods to estimate seasonal phenological development from BBCH scale recording. International Journal of Biometeorology, 2011, 55, 867-877.	3.0	25
170	Effects of recent warm and cold spells on European plant phenology. International Journal of Biometeorology, 2011, 55, 921-932.	3.0	46
171	Effects of extreme spring temperatures on urban phenology and pollen production: a case study in Munich and Ingolstadt. Climate Research, 2011, 49, 101-112.	1.1	27
172	Changes in the phenology and composition of wine from Franconia, Germany. Climate Research, 2011, 50, 69-81.	1.1	102
173	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
174	Bayesian analysis of changes in Radiosonde Atmospheric Temperature. International Journal of Climatology, 2009, 29, 629-641.	3.5	6
175	Bayesian analysis of temperature sensitivity of plant phenology in Germany. Agricultural and Forest Meteorology, 2009, 149, 1699-1708.	4.8	18
176	Influence of altitude on phenology of selected plant species in the Alpine region (1971â€“2000). Climate Research, 2009, 39, 227-234.	1.1	77
177	Temperature sensitivity of Swiss and British plant phenology from 1753 to 1958. Climate Research, 2009, 39, 179-190.	1.1	30
178	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
179	INTRODUCTIONÂ European cooperation in plant phenology 3. Climate Research, 2009, 39, 175-177.	1.1	22
180	Spatial variation in onset dates and trends in phenology across Europe. Climate Research, 2009, 39, 249-260.	1.1	32

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181	COST725 â€“ establishing a European phenological data platform for climatological applications: major results. Advances in Science and Research, 2009, 3, 119-122.	1.0	8
182	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
183	Attributing physical and biological impacts to anthropogenic climate change. Nature, 2008, 453, 353-357.	27.8	1,210
184	Time series modeling and central European temperature impact assessment of phenological records over the last 250 years. Journal of Geophysical Research, 2008, 113, .	3.3	44
185	Norway spruce (Picea abies): Bayesian analysis of the relationship between temperature and bud burst. Agricultural and Forest Meteorology, 2008, 148, 631-643.	4.8	26
186	Year-to-Year Variation in Release of Bet v 1 Allergen from Birch Pollen: Evidence for Geographical Differences between West and South Germany. International Archives of Allergy and Immunology, 2008, 145, 122-130.	2.1	77
187	Impacts of Climate Variability, Trends and NAO on 20th Century European Plant Phenology. , 2008, , 221-233.		5
188	Shifting plant phenology in response to global change. Trends in Ecology and Evolution, 2007, 22, 357-365.	8.7	1,746
189	Quantifying the relationship between light quality and light availability at different phenological stages within a mature mixed forest. Agricultural and Forest Meteorology, 2007, 142, 35-44.	4.8	26
190	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
191	Trends and temperature response in the phenology of crops in Germany. Global Change Biology, 2007, 13, 1737-1747.	9.5	232
192	Plant Phenology Changes and Climate Change. , 2007, , 1-7.		1
193	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
194	Responses of leaf colouring in four deciduous tree species to climate and weather in Germany. Climate Research, 2006, 32, 253-267.	1.1	200
195	Heat and drought 2003 in Europe: a climate synthesis. Annals of Forest Science, 2006, 63, 569-577.	2.0	253
196	Altered geographic and temporal variability in phenology in response to climate change. Global Ecology and Biogeography, 2006, 15, 498-504.	5.8	195
197	Bayesian correlation between temperature and blossom onset data. Global Change Biology, 2006, 12, 1451-1459.	9.5	38
198	European phenological response to climate change matches the warming pattern. Global Change Biology, 2006, 12, 1969-1976.	9.5	2,412

#	Article	IF	Citations
199	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
200	'SSW to NNE' - North Atlantic Oscillation affects the progress of seasons across Europe. Global Change Biology, 2005, 11, 909-918.	9.5	66
201	A 500 year pheno-climatological view on the 2003 heatwave in Europe assessed by grape harvest dates. Meteorologische Zeitschrift, 2005, 14, 75-77.	1.0	66
202	Analysis of long-term time series of the beginning of flowering by Bayesian function estimation. Meteorologische Zeitschrift, 2005, 14, 429-434.	1.0	32
203	Temperature response rates from long-term phenological records. Climate Research, 2005, 30, 21-28.	1.1	64
204	Bayesian analysis of climate change impacts in phenology. Global Change Biology, 2004, 10, 259-272.	9.5	110
205	Plant Phenological Anomalies in Germany and their Relation to Air Temperature and NAO. Climatic Change, 2003, 57, 243-263.	3.6	297
206	Trends of spring time frost events and phenological dates in Central Europe. Theoretical and Applied Climatology, 2003, 74, 41-51.	2.8	143
207	The European Phenology Network. International Journal of Biometeorology, 2003, 47, 202-212.	3.0	74
208	Exploring two methods for statistical downscaling of Central European phenological time series. International Journal of Biometeorology, 2003, 48, 56-64.	3.0	22
209	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
210	Indications of long-term changes in middle atmosphere transports. Advances in Space Research, 2003, 32, 1675-1684.	2.6	15
211	Impact of Pollen on Human Health: More Than Allergen Carriers?. International Archives of Allergy and Immunology, 2003, 131, 1-13.	2.1	126
212	Plant Phenological â€œFingerprintsâ€• Tasks for Vegetation Science, 2003, , 319-329.	0.6	9
213	Atmospheric mechanisms governing the spatial and temporal variability of phenological phases in central Europe. International Journal of Climatology, 2002, 22, 1739-1755.	3.5	106
214	Changes in European spring phenology. International Journal of Climatology, 2002, 22, 1727-1738.	3.5	229
215	Observed changes in seasons: an overview. International Journal of Climatology, 2002, 22, 1715-1725.	3.5	411
216	Ecological responses to recent climate change. Nature, 2002, 416, 389-395.	27.8	7,926

#	Article	IF	Citations
217	Phenology: Its Importance to the Global Change Community. Climatic Change, 2002, 54, 379-385.	3.6	323
218	Spatial and temporal variability of the phenological seasons in Germany from 1951 to 1996. Global Change Biology, 2001, 7, 657-666.	9.5	46
219	Spatial and temporal variability of the phenological seasons in Germany from 1951 to 1996. Global Change Biology, 2001, 7, 657-666.	9.5	226
220	Plant Phenological Changes. , 2001, , 123-137.		35
221	Trends in phenological phases in Europe between 1951 and 1996. International Journal of Biometeorology, 2000, 44, 76-81.	3.0	427
222	Growing season extended in Europe. Nature, 1999, 397, 659-659.	27.8	1,251
223	Wie sehen die WÃlder von morgen aus â€" aus der Sicht eines Klimatologen. European Journal of Forest Research, 1998, 117, 339-354.	0.3	11
224	Temperature and Plant Development: Phenology and Seasonality. , 0, , 70-95.		17