Juergen Kreyling

List of Publications by Year
in descending order

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141	9,791	28274	40979
papers	citations	55 h-index	93 g-index

152	152	152	12682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	9.5	113
2	Field experiments underestimate aboveground biomass response to drought. Nature Ecology and Evolution, 2022, 6, 540-545.	7.8	30
3	Climate-change-driven growth decline of European beech forests. Communications Biology, 2022, 5, 163.	4.4	89
4	Inter-Individual Budburst Variation in Fagus sylvatica Is Driven by Warming Rate. Frontiers in Plant Science, 2022, 13, 853521.	3.6	7
5	Jet stream position explains regional anomalies in European beech forest productivity and tree growth. Nature Communications, 2022, 13, 2015.	12.8	8
6	Species-specific effects of thermal stress on the expression of genetic variation across a diverse group of plant and animal taxa under experimental conditions. Heredity, 2021, 126, 23-37.	2.6	11
7	15N tracer enrichment in response to winter soil temperature manipulation differs between canopy trees and juveniles. Trees - Structure and Function, 2021, 35, 325-331.	1.9	3
8	Wetter is Better: Rewetting of Minerotrophic Peatlands Increases Plant Production and Moves Them Towards Carbon Sinks in a Dry Year. Ecosystems, 2021, 24, 1093-1109.	3.4	21
9	The invasive Opuntia ficus-indica homogenizes native plant species compositions in the highlands of Eritrea. Biological Invasions, 2021, 23, 433-442.	2.4	15
10	Ecosystem Processes Show Uniform Sensitivity to Winter Soil Temperature Change Across a Gradient from Central to Cold Marginal Stands of a Major Temperate Forest Tree. Ecosystems, 2021, 24, 1545-1560.	3.4	10
11	Root-Associated Mycobiomes of Common Temperate Plants (Calluna vulgaris and Holcus lanatus) Are Strongly Affected by Winter Climate Conditions. Microbial Ecology, 2021, 82, 403-415.	2.8	3
12	Management options for the conversion of allochthonous coniferous forest patches towards more natural species composition in the Vorpommersche Boddenlandschaft National Park, NE Germany. Baltic Forestry, 2021, 27, .	0.5	3
13	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. Ecology, 2021, 102, e03332.	3.2	74
14	Potentially peatâ€forming biomass of fen sedges increases with increasing nutrient levels. Functional Ecology, 2021, 35, 1579-1595.	3.6	8
15	Donâ€™t drink it, bury it: comparing decomposition rates with the tea bag index is possible without prior leaching. Plant and Soil, 2021, 465, 613-621.	3.7	7
16	High plasticity in germination and establishment success in the dominant forest tree Fagus sylvatica across Europe. Global Ecology and Biogeography, 2021, 30, 1583-1596.	5.8	15
17	Determinants of community compositional change are equally affected by global change. Ecology Letters, 2021, 24, 1892-1904.	6.4	27
18	Eukaryotic rather than prokaryotic microbiomes change over seasons in rewetted fen peatlands. FEMS Microbiology Ecology, 2021, 97, .	2.7	8

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19	Can nutrient uptake by Carex counteract eutrophication in fen peatlands?. Science of the Total Environment, 2021, 785, 147276.	8.0	8
20	Late to bed, late to riseâ€"Warmer autumn temperatures delay spring phenology by delaying dormancy. Global Change Biology, 2021, 27, 5806-5817.	9.5	43
21	Rewetting does not return drained fen peatlands to their old selves. Nature Communications, 2021, 12, 5693.	12.8	75
22	ForestTemp â€“ Subâ€canopy microclimate temperatures of European forests. Global Change Biology, 2021, 27, 6307-6319.	9.5	57
23	Identification and Measurement of Individual Roots in Minirhizotron Images of Dense Root Systems. , 2021, , .		4
24	Understanding ecosystems of the future will require more than realistic climate change experiments â€“ A response to Korell et al.. Global Change Biology, 2020, 26, e6-e7.	9.5	12
25	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	5.2	68
26	Tree growth influenced by warming winter climate and summer moisture availability in northern temperate forests. Global Change Biology, 2020, 26, 2505-2518.	9.5	101
27	Lowest drought sensitivity and decreasing growth synchrony towards the dry distribution margin of European beech. Journal of Biogeography, 2020, 47, 1910-1921.	3.0	40
28	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. Soil Systems, 2020, 4, 14.	2.6	45
29	Invader presence disrupts the stabilizing effect of species richness in plant community recovery after drought. Global Change Biology, 2020, 26, 3539-3551.	9.5	20
30	Wetland buffer zones for nitrogen and phosphorus retention: Impacts of soil type, hydrology and vegetation. Science of the Total Environment, 2020, 727, 138709.	8.0	89
31	SoilTemp: A global database of nearâ€surface temperature. Global Change Biology, 2020, 26, 6616-6629.	9.5	122
32	Differential Thermal Analysis: A Fast Alternative to Measurements. Methods in Molecular Biology, 2020, 2156, 23-31.	0.9	3
33	Soils from cold and snowy temperate deciduous forests release more nitrogen and phosphorus after soil freezeâ€"thaw cycles than soils from warmer, snow-poor conditions. Biogeosciences, 2020, 17, 4103-4117.	3.3	15
34	Global change effects on plant communities are magnified by time and the number of global change factors imposed. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17867-17873.	7.1	141
35	Winter warming is ecologically more relevant than summer warming in a cool-temperate grassland. Scientific Reports, 2019, 9, 14632.	3.3	36
36	Patterns and drivers in spring and autumn phenology differ above- and belowground in four ecosystems under the same macroclimatic conditions. Plant and Soil, 2019, 445, 217-229.	3.7	9

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37	Phenotypic plasticity closely linked to climate at origin and resulting in increased mortality under warming and frost stress in a common grass. Ecology and Evolution, 2019, 9, 1344-1352.	1.9	17
38	The Ecological Importance of Winter in Temperate, Boreal, and Arctic Ecosystems in Times of Climate Change. Progress in Botany Fortschritte Der Botanik, 2019, , 377-399.	0.3	10
39	Forest understory vegetation is more related to soil than to climate towards the cold distribution margin of European beech. Journal of Vegetation Science, 2019, 30, 746-755.	2.2	19
40	Increased Soil Frost Versus Summer Drought as Drivers of Plant Biomass Responses to Reduced Precipitation: Results from a Globally Coordinated Field Experiment. Ecosystems, 2018, 21, 1432-1444.	3.4	18
41	Phenological Sensitivity of Early and Late Flowering Species Under Seasonal Warming and Altered Precipitation in a Seminatural Temperate Grassland Ecosystem. Ecosystems, 2018, 21, 1306-1320.	3.4	15
42	Mean annual precipitation predicts primary production resistance and resilience to extreme drought. Science of the Total Environment, 2018, 636, 360-366.	8.0	109
43	Intraspecific variation in response to magnitude and frequency of freeze-thaw cycles in a temperate grass. AoB PLANTS, 2018, 10, plx068.	2.3	5
44	Autumnal warming does not change root phenology in two contrasting vegetation types of subarctic tundra. Plant and Soil, 2018, 424, 145-156.	3.7	18
45	Positive sportâ€“biosphere interactions? â€” Cross-country skiing delays spring phenology of meadow vegetation. Basic and Applied Ecology, 2018, 27, 30-40.	2.7	6
46	Temporal photoperiod sensitivity and forcing requirements for budburst in temperate tree seedlings. Agricultural and Forest Meteorology, 2018, 248, 82-90.	4.8	25
47	Winter warming effects on tundra shrub performance are speciesâ€specific and dependent on spring conditions. Journal of Ecology, 2018, 106, 599-612.	4.0	32
48	Short-term carbon dynamics in a temperate grassland and heathland ecosystem exposed to 104 days of drought followed by irrigation. Isotopes in Environmental and Health Studies, 2018, 54, 41-62.	1.0	7
49	Patterns and drivers of biodiversityâ€“stability relationships under climate extremes. Journal of Ecology, 2018, 106, 890-902.	4.0	83
50	Winter matters: Sensitivity to winter climate and cold events increases towards the cold distribution margin of European beech (Fagus sylvatica L.). Journal of Biogeography, 2018, 45, 2779-2790.	3.0	37
51	Climatically controlled reproduction drives interannual growth variability in a temperate tree species. Ecology Letters, 2018, 21, 1833-1844.	6.4	92
52	To replicate, or not to replicate â€“ that is the question: how to tackle nonlinear responses in ecological experiments. Ecology Letters, 2018, 21, 1629-1638.	6.4	146
53	Multiple facets of biodiversity drive the diversityâ€“stability relationship. Nature Ecology and Evolution, 2018, 2, 1579-1587.	7.8	296
54	Key ecological research questions for Central European forests. Basic and Applied Ecology, 2018, 32, 3-25.	2.7	71

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55	Effects of extreme drought on specific leaf area of grassland species: A metaâ€analysis of experimental studies in temperate and subâ€Mediterranean systems. Global Change Biology, 2017, 23, 2473-2481.	9.5	165
56	Trait variation in response to varying winter temperatures, diversity patterns and signatures of selection along the latitudinal distribution of the widespread grassland plant Arrhenatherum elatius. Ecology and Evolution, 2017, 7, 3268-3280.	1.9	16
57	Plant community composition affects the species biogeochemical niche. Ecosphere, 2017, 8, e01801.	2.2	42
58	Importance of Seasonality for the Response of a Mesic Temperate Grassland to Increased Precipitation Variability and Warming. Ecosystems, 2017, 20, 1454-1467.	3.4	29
59	Low resistance but high resilience in growth of a major deciduous forest tree (Fagus sylvatica L.) in response to late spring frost in southern Germany. Trees - Structure and Function, 2017, 31, 743-751.	1.9	47
60	Drought inhibits synergistic interactions of native and exotic litter mixtures during decomposition in temperate grasslands. Plant and Soil, 2017, 415, 257-268.	3.7	13
61	Grassland experiments under climatic extremes: Reproductive fitness versus biomass. Environmental and Experimental Botany, 2017, 144, 68-75.	4.2	16
62	Asynchrony among local communities stabilises ecosystem function of metacommunities. Ecology Letters, 2017, 20, 1534-1545.	6.4	136
63	Species richness effects on grassland recovery from drought depend on community productivity in a multisite experiment. Ecology Letters, 2017, 20, 1405-1413.	6.4	82
64	Drought Effects in Climate Change Manipulation Experiments: Quantifying the Influence of Ambient Weather Conditions and Rain-out Shelter Artifacts. Ecosystems, 2017, 20, 301-315.	3.4	41
65	Desert Vegetation Forty Years after an Oil Spill. Journal of Environmental Quality, 2017, 46, 568-575.	2.0	18
66	Distribution ranges and spring phenology explain late frost sensitivity in 170 woody plants from the Northern Hemisphere. Global Ecology and Biogeography, 2016, 25, 1061-1071.	5.8	51
67	The hidden season: growing season is 50% longer below than above ground along an arctic elevation gradient. New Phytologist, 2016, 209, 978-986.	7.3	100
68	Effects of extreme weather events and legume presence on mycorrhization of Plantago lanceolata and Holcus lanatus in the field. Plant Biology, 2016, 18, 262-270.	3.8	17
69	On the influence of provenance to soil quality enhanced stress reaction of young beech trees to summer drought. Ecology and Evolution, 2016, 6, 8276-8290.	1.9	8
70	Ecotype-specific improvement of nitrogen status in European grasses after drought combined with rewetting. Acta Oecologica, 2016, 77, 118-127.	1.1	3
71	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150277.	4.0	169
72	Shortâ€term climate change manipulation effects do not scale up to longâ€term legacies: effects of an absent snow cover on boreal forest plants. Journal of Ecology, 2016, 104, 1638-1648.	4.0	57

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73	How plot shape and spatial arrangement affect plant species richness counts: implications for sampling design and rarefaction analyses. Journal of Vegetation Science, 2016, 27, 692-703.	2.2	38
74	Plant responses to climatic extremes: withinâ€spécies variation equals amongâ€spécies variation. Global Change Biology, 2016, 22, 449-464.	9.5	54
75	Plant community composition is a crucial factor for heath performance under precipitation extremes. Journal of Vegetation Science, 2015, 26, 975-984.	2.2	15
76	A Comparison of Genetic Diversity and Phenotypic Plasticity among European Beech (Fagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Manipulation. International Journal of Plant Sciences, 2015, 176, 232-244.	1.3	32
77	Nitrogen leaching is enhanced after a winter warm spell but mainly controlled by vegetation composition in temperate zone mesocosms. Plant and Soil, 2015, 396, 85-96.	3.7	6
78	Warming differentially influences the effects of drought on stoichiometry and metabolomics in shoots and roots. New Phytologist, 2015, 207, 591-603.	7.3	109
79	Global Change Experiments: Challenges and Opportunities. BioScience, 2015, 65, 922-931.	4.9	93
80	Biodiversity increases the resistance of ecosystem productivity to climate extremes. Nature, 2015, 526, 574-577.	27.8	1,032
81	Cold tolerance of tree species is related to the climate of their native ranges. Journal of Biogeography, 2015, 42, 156-166.	3.0	62
82	Shifts in the elemental composition of plants during a very severe drought. Environmental and Experimental Botany, 2015, 111, 63-73.	4.2	50
83	Interactions among ecosystem services across Europe: Bagplots and cumulative correlation coefficients reveal synergies, trade-offs, and regional patterns. Ecological Indicators, 2015, 49, 46-52.	6.3	132
84	Increased winter soil temperature variability enhances nitrogen cycling and soil biotic activity in temperate heathland and grassland mesocosms. Biogeosciences, 2014, 11, 7051-7060.	3.3	17
85	Extreme weather events and plantâ€“plant interactions: shifts between competition and facilitation among grassland species in the face of drought and heavy rainfall. Ecological Research, 2014, 29, 991-1001.	1.5	90
86	Local adaptations to frost in marginal and central populations of the dominant forest tree <scp>F</scp>agus sylvatica <scp>L</scp>. as affected by temperature and extreme drought in common garden experiments. Ecology and Evolution, 2014, 4, 594-605.	1.9	97
87	Climatic extremes lead to species-specific legume facilitation in an experimental temperate grassland. Plant and Soil, 2014, 379, 161-175.	3.7	30
88	Different reactions of central and marginal provenances of Fagus sylvatica to experimental drought. European Journal of Forest Research, 2014, 133, 247-260.	2.5	74
89	Relative effects of temperature vs. photoperiod on growth and cold acclimation of northern and southern ecotypes of the grass Arrhenatherum elatius. Environmental and Experimental Botany, 2014, 106, 189-196.	4.2	19
90	Beyond realism in climate change experiments: gradient approaches identify thresholds and tipping points. Ecology Letters, 2014, 17, 125.	6.4	71

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91	Winter warming pulses differently affect plant performance in temperate heathland and grassland communities. Ecological Research, 2014, 29, 561-570.	1.5	21
92	Recurrent Mild Drought Events Increase Resistance Toward Extreme Drought Stress. Ecosystems, 2014, 17, 1068-1081.	3.4	89
93	Water stress due to increased intra-annual precipitation variability reduced forage yield but raised forage quality of a temperate grassland. Agriculture, Ecosystems and Environment, 2014, 186, 11-22.	5.3	93
94	Opposite metabolic responses of shoots and roots to drought. Scientific Reports, 2014, 4, 6829.	3.3	170
95	Common Garden Experiments to Characterize Cold Acclimation Responses in Plants from Different Climatic Regions. Methods in Molecular Biology, 2014, 1166, 65-78.	0.9	5
96	A transplantation experiment along climatic gradients suggests limitations of experimental warming manipulations. Climate Research, 2014, 60, 63-71.	1.1	2
97	Absence of soil frost affects plant-soil interactions in temperate grasslands. Plant and Soil, 2013, 371, 559-572.	3.7	17
98	Recurring weather extremes alter the flowering phenology of two common temperate shrubs. International Journal of Biometeorology, 2013, 57, 579-588.	3.0	38
99	Intraspecific variation buffers projected climate change impacts on Pinus contorta. Ecology and Evolution, 2013, 3, 437-449.	1.9	97
100	Ecological stress memory and cross stress tolerance in plants in the face of climate extremes. Environmental and Experimental Botany, 2013, 94, 3-8.	4.2	283
101	Combined effects of multifactor climate change and land-use on decomposition in temperate grassland. Soil Biology and Biochemistry, 2013, 60, 10-18.	8.8	63
102	Soilâ€moisture change caused by experimental extreme summer drought is similar to natural interâ€annual variation in a loamy sand in Central Europe. Journal of Plant Nutrition and Soil Science, 2013, 176, 27-34.	1.9	18
103	Snow removal reduces annual cellulose decomposition in a riparian boreal forest. Canadian Journal of Soil Science, 2013, 93, 427-433.	1.2	38
104	Complexity in Climate Change Manipulation Experiments. BioScience, 2013, 63, 763-767.	4.9	56
105	Winter climate controls soil carbon dynamics during summer in boreal forests. Environmental Research Letters, 2013, 8, 024017.	5.2	38
106	Winter Climate Change and Ecological Implications in Temperate Systems. , 2013, , 29-40.		3
107	A continental comparison indicates long-term effects of forest management on understory diversity in coniferous forests¹This article is one of a selection of papers from the 7th International Conference on Disturbance Dynamics in Boreal Forests.. Canadian Journal of Forest Research, 2012, 42, 1239-1252.	1.7	10
108	Drought responses of Arrhenatherum elatius grown in plant assemblages of varying species richness. Acta Oecologica, 2012, 39, 11-17.	1.1	9

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109	Uniform drought and warming responses in Pinus nigra provenances despite specific overall performances. Forest Ecology and Management, 2012, 270, 200-208.	3.2	41
110	Low-temperature threshold for egg survival of a post-diapause and non-diapause European aedine strain, Aedes albopictus (Diptera: Culicidae). Parasites and Vectors, 2012, 5, 100.	2.5	133
111	Short-term impacts of soil freeze-thaw cycles on roots and root-associated fungi of Holcus lanatus and Calluna vulgaris. Plant and Soil, 2012, 353, 19-31.	3.7	64
112	Late frost sensitivity of juvenile Fagus sylvatica L. differs between southern Germany and Bulgaria and depends on preceding air temperature. European Journal of Forest Research, 2012, 131, 717-725.	2.5	76
113	Increased rainfall variability reduces biomass and forage quality of temperate grassland largely independent of mowing frequency. Agriculture, Ecosystems and Environment, 2012, 148, 1-10.	5.3	69
114	Cold hardiness of Pinus nigra Arnold as influenced by geographic origin, warming, and extreme summer drought. Environmental and Experimental Botany, 2012, 78, 99-108.	4.2	79
115	Geographic origin and past climatic experience influence the response to late spring frost in four common grass species in central Europe. Ecography, 2012, 35, 268-275.	4.5	54
116	Absence of snow cover reduces understory plant cover and alters plant community composition in boreal forests. Oecologia, 2012, 168, 577-587.	2.0	91
117	Winter warming pulses affect the development of planted temperate grassland and dwarf-shrub heath communities. Plant Ecology and Diversity, 2011, 4, 13-21.	2.4	24
118	Vanishing winters in Germany: soil frost dynamics and snow cover trends, and ecological implications. Climate Research, 2011, 46, 269-276.	1.1	101
119	Stochastic trajectories of succession initiated by extreme climatic events. Ecology Letters, 2011, 14, 758-764.	6.4	114
120	Ecotypes of European grass species respond differently to warming and extreme drought. Journal of Ecology, 2011, 99, 703-713.	4.0	110
121	Climate extremes initiate ecosystemâ€regulating functions while maintaining productivity. Journal of Ecology, 2011, 99, 689-702.	4.0	243
122	Assisted Colonization: A Question of Focal Units and Recipient Localities. Restoration Ecology, 2011, 19, 433-440.	2.9	84
123	Evidence for genetic differentiation and divergent selection in an autotetraploid forage grass (Arrhenatherum elatius). Theoretical and Applied Genetics, 2010, 120, 1151-1162.	3.6	34
124	Effects of soil freezeâ€“thaw cycles differ between experimental plant communities. Basic and Applied Ecology, 2010, 11, 65-75.	2.7	69
125	Potential consequences of climate warming for tropical plant species in high mountains of southern Ethiopia. Diversity and Distributions, 2010, 16, 593-605.	4.1	30
126	Winter climate change: a critical factor for temperate vegetation performance. Ecology, 2010, 91, 1939-1948.	3.2	283

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127	Vegetation pattern divergence between dry and wet season in a semiarid savanna â€“ Spatio-temporal dynamics of plant diversity in northwest Namibia. Journal of Arid Environments, 2010, 74, 1516-1524.	2.4	16
128	Beyond gradual warming: extreme weather events alter flower phenology of European grassland and heath species. Global Change Biology, 2009, 15, 837-849.	9.5	190
129	Slow understory redevelopment after clearcutting in high mountain forests. Biodiversity and Conservation, 2008, 17, 2339-2355.	2.6	15
130	Soil biotic processes remain remarkably stable after 100-year extreme weather events in experimental grassland and heath. Plant and Soil, 2008, 308, 175-188.	3.7	77
131	Effects of Extreme Weather Events on Plant Productivity and Tissue Die-Back are Modified by Community Composition. Ecosystems, 2008, 11, 752-763.	3.4	132
132	Invasibility of grassland and heath communities exposed to extreme weather events â€“ additive effects of diversity resistance and fluctuating physical environment. Oikos, 2008, 117, 1542-1554.	2.7	54
133	Recurrent soil freezeâ€“thaw cycles enhance grassland productivity. New Phytologist, 2008, 177, 938-945.	7.3	100
134	A single drought event of 100â€year recurrence enhances subsequent carbon uptake and changes carbon allocation in experimental grassland communities. Journal of Plant Nutrition and Soil Science, 2008, 171, 681-689.	1.9	37
135	Potentials of Natural Tree Regeneration after Clearcutting in Subalpine Forests. Western Journal of Applied Forestry, 2008, 23, 46-52.	0.5	6
136	A new generation of climate-change experiments: events, not trends. Frontiers in Ecology and the Environment, 2007, 5, 365-374.	4.0	931
137	Upward shift of alpine plants increases floristic similarity of mountain summits. Journal of Vegetation Science, 2007, 18, 711-718.	2.2	89
138	A new generation of climate-change experiments: events, not trends. , 2007, 5, 365.		1
139	A new generation of climate-change experiments: events, not trends. , 2007, 5, 365.		3
140	Upward shift of alpine plants increases floristic similarity of mountain summits. Journal of Vegetation Science, 2007, 18, 711.	2.2	1
141	Rewetting prolongs root growing season in minerotrophic peatlands and mitigates negative drought effects. Journal of Applied Ecology, 0, , .	4.0	6