Werner HÃ¤rdtle

List of Publications by Year
in descending order

131	6,060	71061	88593
papers	citations	41 h-index	70 g-index

136	136	136	6247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Competitive interactions shape plant responses to nitrogen fertilization and drought: evidence from a microcosm experiment with Lilium bulbiferum L. and Secale cereale L.. Plant Ecology, 2022, 223, 437-451.	0.7	0
2	Neighbourhood Species Richness Reduces Crown Asymmetry of Subtropical Trees in Sloping Terrain. Remote Sensing, 2022, 14, 1441.	1.8	2
3	Woody plant species diversity as a predictor of ecosystem services in a socialâ€“ecological system of southwestern Ethiopia. Landscape Ecology, 2021, 36, 373-391.	1.9	18
4	Tree-tree interactions and crown complementarity: The role of functional diversity and branch traits for canopy packing. Basic and Applied Ecology, 2021, 50, 217-227.	1.2	22
5	The role of semiâ€open habitats as dispersal corridors for plant species of woodlands and open habitats. Applied Vegetation Science, 2021, 24, e12526.	0.9	4
6	Evaluating structural and compositional canopy characteristics to predict the lightâ€demand signature of the forest understorey in mixed, semiâ€natural temperate forests. Applied Vegetation Science, 2021, 24, .	0.9	24
7	Tree species richness modulates water supply in the local tree neighbourhood: evidence from woodÎ´¹³C signatures in a large-scale forest experiment. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203100.	1.2	4
8	Corridors as a tool for linking habitats â€“ Shortcomings and perspectives for plant conservation. Journal for Nature Conservation, 2021, 60, 125974.	0.8	21
9	What shapes ground beetle assemblages in a tree species-rich subtropical forest?. ZooKeys, 2021, 1044, 907-927.	0.5	3
10	Forestry contributed to warming of forest ecosystems in northern Germany during the extreme summers of 2018 and 2019. Ecological Solutions and Evidence, 2021, 2, e12087.	0.8	13
11	Tree species richness promotes an early increase of stand structural complexity in young subtropical plantations. Journal of Applied Ecology, 2021, 58, 2305-2314.	1.9	14
12	Reprint of: Tree-tree interactions and crown complementarity: the role of functional diversity and branch traits for canopy packing. Basic and Applied Ecology, 2021, 55, 53-63.	1.2	1
13	The significance of tree-tree interactions for forest ecosystem functioning. Basic and Applied Ecology, 2021, 55, 33-52.	1.2	38
14	Species richness stabilizes productivity via asynchrony and drought-tolerance diversity in a large-scale tree biodiversity experiment. Science Advances, 2021, 7, eabk1643.	4.7	72
15	Ensuring the Long-Term Provision of Heathland Ecosystem Servicesâ€”The Importance of a Functional Perspective in Management Decision Frameworks. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	2
16	Growthâ€“trait relationships in subtropical forest are stronger at higher diversity. Journal of Ecology, 2020, 108, 256-266.	1.9	18
17	Impacts of Multiple Environmental Change Drivers on Growth of European Beech (Fagus sylvatica): Forest History Matters. Ecosystems, 2020, 23, 529-540.	1.6	5
18	Drivers of aboveâ€ground understorey biomass and nutrient stocks in temperate deciduous forests. Journal of Ecology, 2020, 108, 982-997.	1.9	25

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19	A tale of scale: Plot but not neighbourhood tree diversity increases leaf litter ant diversity. Journal of Animal Ecology, 2020, 89, 299-308.	1.3	19
20	Neighbourhood diversity mitigates drought impacts on tree growth. Journal of Ecology, 2020, 108, 865-875.	1.9	41
21	Light availability and landâ€use history drive biodiversity and functional changes in forest herb layer communities. Journal of Ecology, 2020, 108, 1411-1425.	1.9	49
22	Plant functional trait response to environmental drivers across European temperate forest understorey communities. Plant Biology, 2020, 22, 410-424.	1.8	38
23	Provenance- and life-history stage-specific responses of the dwarf shrub Calluna vulgaris to elevated vapour pressure deficit. Plant Ecology, 2020, 221, 1219-1232.	0.7	4
24	Neighbourhoodâ€mediated shifts in tree biomass allocation drive overyielding in tropical species mixtures. New Phytologist, 2020, 228, 1256-1268.	3.5	37
25	Safeguarding the rare woodland species Gagea spathacea: Understanding habitat requirements is not sufficient. Plant Species Biology, 2020, 35, 120-129.	0.6	0
26	Multiple components of plant diversity loss determine herbivore phylogenetic diversity in a subtropical forest experiment. Journal of Ecology, 2019, 107, 2697-2712.	1.9	33
27	Neighbour species richness and local structural variability modulate aboveground allocation patterns and crown morphology of individual trees. Ecology Letters, 2019, 22, 2130-2140.	3.0	80
28	Tree-species interactions increase light absorption and growth in Chinese subtropical mixed-species plantations. Oecologia, 2019, 191, 421-432.	0.9	22
29	Multiple plant diversity components drive consumer communities across ecosystems. Nature Communications, 2019, 10, 1460.	5.8	139
30	Litter quality, land-use history, and nitrogen deposition effects on topsoil conditions across European temperate deciduous forests. Forest Ecology and Management, 2019, 433, 405-418.	1.4	46
31	Environmental drivers interactively affect individual tree growth across temperate European forests. Global Change Biology, 2019, 25, 201-217.	4.2	44
32	Neighbourhood interactions drive overyielding in mixed-species tree communities. Nature Communications, 2018, 9, 1144.	5.8	92
33	Anthropogenic nitrogen deposition alters growth responses of European beech (Fagus sylvativa L.) to climate change. Environmental Pollution, 2018, 233, 92-98.	3.7	15
34	Time- and age-related effects of experimentally simulated nitrogen deposition on the functioning of montane heathland ecosystems. Science of the Total Environment, 2018, 613-614, 149-159.	3.9	16
35	Long-Term Abandonment of Forest Management Has a Strong Impact on Tree Morphology and Wood Volume Allocation Pattern of European Beech (Fagus Sylvatica L.). Forests, 2018, 9, 704.	0.9	14
36	Impacts of species richness on productivity in a large-scale subtropical forest experiment. Science, 2018, 362, 80-83.	6.0	433

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37	Precrop Functional Group Identity Affects Yield of Winter Barley but Less so High Carbon Amendments in a Mesocosm Experiment. Frontiers in Plant Science, 2018, 9, 912.	1.7	3
38	Higher drought sensitivity of radial growth of European beech in managed than in unmanaged forests. Science of the Total Environment, 2018, 642, 1201-1208.	3.9	45
39	A highâ€resolution approach for the spatiotemporal analysis of forest canopy space using terrestrial laser scanning data. Ecology and Evolution, 2018, 8, 6800-6811.	0.8	20
40	Biodiversity across trophic levels drives multifunctionality in highly diverse forests. Nature Communications, 2018, 9, 2989.	5.8	169
41	Nitrogen cycling and storage in Gagea spathacea (Liliaceae): ecological insights for protecting a rare woodland species. Plant Ecology, 2018, 219, 1117-1126.	0.7	1
42	Legacy effects of land-use modulate tree growth responses to climate extremes. Oecologia, 2018, 187, 825-837.	0.9	36
43	From deforestation to blossom â€“ Large-scale restoration of montane heathland vegetation. Ecological Engineering, 2017, 101, 211-219.	1.6	9
44	On the combined effect of soil fertility and topography on tree growth in subtropical forest ecosystemsâ€”a study from SE China. Journal of Plant Ecology, 2017, 10, 111-127.	1.2	102
45	From competition to facilitation: how tree species respond to neighbourhood diversity. Ecology Letters, 2017, 20, 892-900.	3.0	123
46	Year-round cattle and horse grazing supports the restoration of abandoned, dry sandy grassland and heathland communities by supressing Calamagrostis epigejos and enhancing species richness. Journal for Nature Conservation, 2017, 40, 120-130.	0.8	32
47	The reproductive potential and importance of key management aspects for successful Calluna vulgaris rejuvenation on abandoned Continental heaths. Ecology and Evolution, 2017, 7, 2091-2100.	0.8	17
48	Impact of tree diversity and environmental conditions on the survival of shrub species in a forest biodiversity experiment in subtropical China. Journal of Plant Ecology, 2017, 10, 179-189.	1.2	20
49	Toward a methodical framework for comprehensively assessing forest multifunctionality. Ecology and Evolution, 2017, 7, 10652-10674.	0.8	41
50	Interspecific and intraspecific variation in specific root length drives aboveground biodiversity effects in young experimental forest stands. Journal of Plant Ecology, 2017, 10, 158-169.	1.2	49
51	Ecosystem functions as indicators for heathland responses to nitrogen fertilisation. Ecological Indicators, 2017, 72, 185-193.	2.6	19
52	Crown and leaf traits as predictors of subtropical tree sapling growth rates. Journal of Plant Ecology, 2017, 10, 136-145.	1.2	47
53	Herbivore and pathogen effects on tree growth are additive, but mediated by tree diversity and plant traits. Ecology and Evolution, 2017, 7, 7462-7474.	0.8	34
54	Phenotypic Plasticity Explains Response Patterns of European Beech (Fagus sylvatica L.) Saplings to Nitrogen Fertilization and Drought Events. Forests, 2017, 8, 91.	0.9	13

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55	Bryophytes and Organic layers Control Uptake of Airborne Nitrogen in Low-N Environments. Frontiers in Plant Science, 2017, 8, 2080.	1.7	6
56	Tree species and functional traits but not species richness affect interrill erosion processes in young subtropical forests. Soil, 2016, 2, 49-61.	2.2	35
57	Nitrogen Addition Enhances Drought Sensitivity of Young Deciduous Tree Species. Frontiers in Plant Science, 2016, 7, 1100.	1.7	32
58	Does excess nitrogen supply increase the drought sensitivity of European beech (Fagus sylvatica L.) seedlings?. Plant Ecology, 2016, 217, 393-405.	0.7	37
59	Rule-based analysis of throughfall kinetic energy to evaluate biotic and abiotic factor thresholds to mitigate erosive power. Progress in Physical Geography, 2016, 40, 431-449.	1.4	12
60	Marginal Calluna populations are more resistant to climate change, but not under high-nitrogen loads. Plant Ecology, 2016, 217, 111-122.	0.7	10
61	Early positive effects of tree species richness on herbivory in a largeâ€scale forest biodiversity experiment influence tree growth. Journal of Ecology, 2015, 103, 563-571.	1.9	43
62	Early subtropical forest growth is driven by community mean trait values and functional diversity rather than the abiotic environment. Ecology and Evolution, 2015, 5, 3541-3556.	0.8	45
63	Impacts of drought and nitrogen addition on Calluna heathlands differ with plant lifeâ€history stage. Journal of Ecology, 2015, 103, 1141-1152.	1.9	37
64	Does Tree Architectural Complexity Influence the Accuracy of Wood Volume Estimates of Single Young Trees by Terrestrial Laser Scanning?. Forests, 2015, 6, 3847-3867.	0.9	17
65	Facilitative-Competitive Interactions in an Old-Growth Forest: The Importance of Large-Diameter Trees as Benefactors and Stimulators for Forest Community Assembly. PLoS ONE, 2015, 10, e0120335.	1.1	19
66	Species-Specific Effects on Throughfall Kinetic Energy in Subtropical Forest Plantations Are Related to Leaf Traits and Tree Architecture. PLoS ONE, 2015, 10, e0128084.	1.1	43
67	Does Forest Continuity Enhance the Resilience of Trees to Environmental Change?. PLoS ONE, 2014, 9, e113507.	1.1	22
68	Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical <scp>C</scp>hina. Methods in Ecology and Evolution, 2014, 5, 74-89.	2.2	232
69	Functional and phylogenetic diversity of woody plants drive herbivory in a highly diverse forest. New Phytologist, 2014, 202, 864-873.	3.5	43
70	Effects of anthropogenic disturbances on soil microbial communities in oak forests persist for more than 100 years. Soil Biology and Biochemistry, 2014, 70, 79-87.	4.2	104
71	Assessing tree dendrometrics in young regenerating plantations using terrestrial laser scanning. Annals of Forest Science, 2014, 71, 453-462.	0.8	21
72	Climate imprints on tree-ring Î´15N signatures of sessile oak (Quercus petraea Liebl.) on soils with contrasting water availability. Ecological Indicators, 2014, 45, 45-50.	2.6	9

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73	Ecosystem services as a boundary object for sustainability. Ecological Economics, 2014, 103, 29-37.	2.9	312
74	Site and neighborhood effects on growth of tree saplings in subtropical plantations (China). Forest Ecology and Management, 2014, 327, 118-127.	1.4	59
75	Mixed afforestation of young subtropical trees promotes nitrogen acquisition and retention. Journal of Applied Ecology, 2014, 51, 224-233.	1.9	50
76	Establishment success in a forest biodiversity and ecosystem functioning experiment in subtropical China (BEF-China). European Journal of Forest Research, 2013, 132, 593-606.	1.1	135
77	Long-Term Trends in Tree-Ring Width and Isotope Signatures (Î´13C, Î´15N) of Fagus sylvatica L. on Soils with Contrasting Water Supply. Ecosystems, 2013, 16, 1413-1428.	1.6	36
78	Climatic responses of tree-ring width and Î´13C signatures of sessile oak (Quercus petraea Liebl.) on soils with contrasting water supply. Plant Ecology, 2013, 214, 1147-1156.	0.7	22
79	Crown size-growth relationships of European beech (Fagus sylvatica L.) are driven by the interplay of disturbance intensity and inter-specific competition. Forest Ecology and Management, 2013, 302, 178-184.	1.4	44
80	Competition response of European beech Fagus sylvatica L. varies with tree size and abiotic stress: minimizing anthropogenic disturbances in forests. Journal of Applied Ecology, 2012, 49, 1306-1315.	1.9	19
81	Impact of tree saplings on the kinetic energy of rainfallâ€"The importance of stand density, species identity and tree architecture in subtropical forests in China. Agricultural and Forest Meteorology, 2012, 156, 31-40.	1.9	40
82	Nitrogen deposition increases susceptibility to drought - experimental evidence with the perennial grass Molinia caerulea (L.) Moench. Plant and Soil, 2012, 353, 59-71.	1.8	62
83	Crown plasticity and neighborhood interactions of European beech (Fagus sylvatica L.) in an old-growth forest. European Journal of Forest Research, 2012, 131, 787-798.	1.1	90
84	Functional trait similarity of native and invasive herb species in subtropical Chinaâ€"Environment-specific differences are the key. Environmental and Experimental Botany, 2012, 83, 82-92.	2.0	13
85	Mechanisms promoting tree species coâ€existence: Experimental evidence with saplings of subtropical forest ecosystems of China. Journal of Vegetation Science, 2012, 23, 837-846.	1.1	46
86	Predator Assemblage Structure and Temporal Variability of Species Richness and Abundance in Forests of High Tree Diversity. Biotropica, 2012, 44, 793-800.	0.8	14
87	Plant traits affecting herbivory on tree recruits in highly diverse subtropical forests. Ecology Letters, 2012, 15, 732-739.	3.0	80
88	Horizontal, but not vertical canopy structure is related to stand functional diversity in a subtropical slope forest. Ecological Research, 2012, 27, 181-189.	0.7	16
89	Eresus kollari (Araneae: Eresidae) calls for heathland management. Journal of Arachnology, 2011, 39, 384-392.	0.3	5
90	Individual-tree radial growth in a subtropical broad-leaved forest: The role of local neighbourhood competition. Forest Ecology and Management, 2011, 261, 499-507.	1.4	79

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91	Community assembly during secondary forest succession in a Chinese subtropical forest. Ecological Monographs, 2011, 81, 25-41.	2.4	222
92	Predator Diversity and Abundance Provide Little Support for the Enemies Hypothesis in Forests of High Tree Diversity. PLoS ONE, 2011, 6, e22905.	1.1	74
93	Fate of airborne nitrogen in heathland ecosystems: a 15N tracer study. Global Change Biology, 2011, 17, 1549-1559.	4.2	27
94	Mechanisms of purple moor-grass (Molinia caerulea) encroachment in dry heathland ecosystems with chronic nitrogen inputs. Environmental Pollution, 2011, 159, 3553-3559.	3.7	27
95	Genetic erosion in a stenotopic heathland ground beetle (Coleoptera: Carabidae): a matter of habitat size?. Conservation Genetics, 2011, 12, 105-117.	0.8	8
96	Genetic erosion in habitat specialist shows need to protect large peat bogs. Conservation Genetics, 2011, 12, 1651-1656.	0.8	2
97	Poleward range expansion without a southern contraction in the ground beetle Agonum viridicupreum (Coleoptera, Carabidae). ZooKeys, 2011, 100, 333-352.	0.5	26
98	Historical ecology meets conservation and evolutionary genetics: a secondary contact zone between Carabus violaceus (Coleoptera, Carabidae) populations inhabiting ancient and recent woodlands in north-western Germany. ZooKeys, 2011, 100, 545-563.	0.5	17
99	N:P Ratio and the Nature of Nutrient Limitation in Calluna-Dominated Heathlands. Ecosystems, 2010, 13, 317-327.	1.6	66
100	Molinia caerulea responses to N and P fertilisation in a dry heathland ecosystem (NW-Germany). Plant Ecology, 2010, 209, 47-56.	0.7	10
101	Value of Semiâ€Open Corridors for Simultaneously Connecting Open and Wooded Habitats: a Case Study with Ground Beetles. Conservation Biology, 2010, 24, 256-266.	2.4	33
102	Tree diversity promotes insect herbivory in subtropical forests of southâ€east China. Journal of Ecology, 2010, 98, 917-926.	1.9	125
103	Tree morphology responds to neighbourhood competition and slope in species-rich forests of subtropical China. Forest Ecology and Management, 2010, 260, 1708-1715.	1.4	97
104	At the interface of historical and present-day ecology: ground beetles in woodlands and open habitats in Upper Galilee (Israel). Zoology in the Middle East, 2009, 47, 93-104.	0.2	5
105	Shifts in N and P Budgets of Heathland Ecosystems: Effects of Management and Atmospheric Inputs. Ecosystems, 2009, 12, 298-310.	1.6	30
106	Selection harvest in temperate deciduous forests: impact on herb layer richness and composition. Biodiversity and Conservation, 2009, 18, 271-287.	1.2	42
107	Is Calluna vulgaris a suitable bio-monitor of management-mediated nutrient pools in heathland ecosystems?. Ecological Indicators, 2009, 9, 1049-1055.	2.6	5
108	Ya'ar Bar'amâ€"An old Quercus calliprinos forest of high nature conservation valuein the Mediterranean region of Israel. Israel Journal of Plant Sciences, 2009, 57, 13-23.	0.3	3

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109	Renaturierung und Management von Heiden. , 2009, , 317-347.		2
110	Site use of grazing cattle and sheep in a large-scale pasture landscape: A GPS/GIS assessment. Applied Animal Behaviour Science, 2008, 111, 54-67.	0.8	120
111	Long-term effects of historical heathland farming on soil properties of forest ecosystems. Forest Ecology and Management, 2008, 255, 1984-1993.	1.4	56
112	Dynamics in a butterflyâ€“plantâ€“ant system: influence of habitat characteristics on turnover rates of the endangered lycaenid Maculinea alcon. Ecological Entomology, 2007, 32, 536-543.	1.1	15
113	Can prescribed burning compensate for atmospheric nutrient loads in wet heathlands?. Phytocoenologia, 2007, 37, 161-174.	1.2	5
114	Impact of sod-cutting and choppering on nutrient budgets of dry heathlands. Biological Conservation, 2007, 134, 344-353.	1.9	37
115	Impact of sheep grazing on nutrient budgets of dry heathlands. Applied Vegetation Science, 2007, 10, 391-398.	0.9	18
116	Effects of prescribed burning on plant available nutrients in dry heathland ecosystems. Plant Ecology, 2007, 189, 279-289.	0.7	42
117	The effects of windthrow on plant species richness in a Central European beech forest. Plant Ecology, 2007, 191, 47-65.	0.7	61
118	Nutrient leaching in dry heathland ecosystems: effects of atmospheric deposition and management. Biogeochemistry, 2007, 86, 201-215.	1.7	17
119	Diversity and spatio-temporal dynamics of dead wood in a temperate near-natural beech forest (Fagus) Tj ETQq1 1 0.784314 rgBT /Over	1.1	51
120	Is the reverse J-shaped diameter distribution universally applicable in European virgin beech forests?. Forest Ecology and Management, 2006, 223, 75-83.	1.4	135
121	Can management compensate for atmospheric nutrient deposition in heathland ecosystems?. Journal of Applied Ecology, 2006, 43, 759-769.	1.9	61
122	Vegetation responses to environmental conditions in floodplain grasslands: Prerequisites for preserving plant species diversity. Basic and Applied Ecology, 2006, 7, 280-288.	1.2	37
123	Species diversity and species composition of epiphytic bryophytes and lichens â€“ a comparison of managed and unmanaged beech forests in NE Germany. Feddes Repertorium, 2006, 117, 172-185.	0.2	80
124	Relationships between the vegetation and soil conditions in beech and beech-oak forests of northern Germany. Plant Ecology, 2005, 177, 113-124.	0.7	41
125	Structural pattern of a near-natural beech forest (Fagus sylvatica) (Serrahn, North-east Germany). Forest Ecology and Management, 2005, 212, 253-263.	1.4	118
126	Relationship between pH-values and nutrient availability in forest soils â€“ the consequences for the use of ecograms in forest ecology. Flora: Morphology, Distribution, Functional Ecology of Plants, 2004, 199, 134-142.	0.6	39

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127	Patterns of species composition and species richness in most (ash-alder) forests of northern Germany (Schleswig-Holstein). Feddes Repertorium, 2003, 114, 574-586.	0.2	8
128	The effects of light and soil conditions on the species richness of the ground vegetation of deciduous forests in northern Germany (Schleswig-Holstein). Forest Ecology and Management, 2003, 182, 327-338.	1.4	158
129	Pasture landscapes in Germany â€" progress towards sustainable use of agricultural land. , 2002, , 147-160.		6
130	On the theoretical concept of the potential natural vegetation and proposals for an up-to-date modification. Folia Geobotanica Et Phytotaxonomica, 1995, 30, 263-276.	0.4	52
131	Resolving potential conflicts between different heathland ecosystem services through adaptive management. Ecological Questions, 0, 21, 101.	0.1	3