## Alexandra Weigelt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of plant species identity override diversity effects in explaining sedimentation within vegetation in a flume experiment. International Review of Hydrobiology, 2022, 107, 108-116.	0.9	3
2	Diversity Effects on Canopy Structure Change throughout a Growing Season in Experimental Grassland Communities. Remote Sensing, 2022, 14, 1557.	4.0	2
3	Drought-exposure history increases complementarity between plant species in response to a subsequent drought. Nature Communications, 2022, 13, .	12.8	19
4	Plant functional group drives the community structure of saprophytic fungi in a grassland biodiversity experiment. Plant and Soil, 2021, 461, 91-105.	3.7	50
5	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. New Phytologist, 2021, 232, 1123-1158.	7.3	277
6	msCBS: A new highâ€ŧhroughput approach to quantify the relative species abundance in root samples of multispecies plant communities. Molecular Ecology Resources, 2021, 21, 1021-1036.	4.8	12
7	Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. Journal of Ecology, 2021, 109, 1284-1297.	4.0	17
8	Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.	5.8	90
9	A New and Improved Online Catalogue of all Extant Vascular Plant Names Available. Taxon, 2021, 70, 223-223.	0.7	0
10	Incorporation of mineral nitrogen into the soil food web as affected by plant community composition. Ecology and Evolution, 2021, 11, 4295-4309.	1.9	2
11	Biodiversity facets affect community surface temperature via 3D canopy structure in grassland communities. Journal of Ecology, 2021, 109, 1969-1985.	4.0	11
12	Plant structural diversity alters sediment retention on and underneath herbaceous vegetation in a flume experiment. PLoS ONE, 2021, 16, e0248320.	2.5	9
13	Reply to: "Results from a biodiversity experiment fail to represent economic performance of semi-natural grasslands― Nature Communications, 2021, 12, 2124.	12.8	2
14	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. Nature Ecology and Evolution, 2021, 5, 1123-1134.	7.8	62
15	An integrated framework of plant form and function: the belowground perspective. New Phytologist, 2021, 232, 42-59.	7.3	153
16	The iDiv Ecotron—A flexible research platform for multitrophic biodiversity research. Ecology and Evolution, 2021, 11, 15174-15190.	1.9	8
17	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122.	7.3	216
18	Topographical factors related to flooding frequency promote ecosystem multifunctionality of riparian floodplains. Ecological Indicators, 2021, 132, 108312.	6.3	7

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19	Ecosystem effects of environmental extremes. Science, 2021, 374, 1442-1443.	12.6	4
20	Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. Ecology, 2020, 101, e02905.	3.2	40
21	Inferring competitive outcomes, ranks and intransitivity from empirical data: A comparison of different methods. Methods in Ecology and Evolution, 2020, 11, 117-128.	5.2	8
22	Predicting species abundances in a grassland biodiversity experiment: Tradeâ€offs between model complexity and generality. Journal of Ecology, 2020, 108, 774-787.	4.0	23
23	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. Nature Ecology and Evolution, 2020, 4, 1602-1611.	7.8	114
24	LCVP, The Leipzig catalogue of vascular plants, a new taxonomic reference list for all known vascular plants. Scientific Data, 2020, 7, 416.	5.3	53
25	Plant diversity influenced gross nitrogen mineralization, microbial ammonium consumption and gross inorganic N immobilization in a grassland experiment. Oecologia, 2020, 193, 731-748.	2.0	15
26	The results of biodiversity–ecosystem functioning experiments are realistic. Nature Ecology and Evolution, 2020, 4, 1485-1494.	7.8	93
27	The fungal collaboration gradient dominates the root economics space in plants. Science Advances, 2020, 6, .	10.3	377
28	Leaf area and pubescence drive sedimentation on leaf surfaces during flooding. Oecologia, 2020, 193, 535-545.	2.0	8
29	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. Nature Ecology and Evolution, 2020, 4, 393-405.	7.8	45
30	Plant diversity effects on forage quality, yield and revenues of semi-natural grasslands. Nature Communications, 2020, 11, 768.	12.8	62
31	Plant species richness and functional groups have different effects on soil water content in a decadeâ€kong grassland experiment. Journal of Ecology, 2019, 107, 127-141.	4.0	69
32	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. Nature Geoscience, 2019, 12, 755-761.	12.9	230
33	Above- and belowground overyielding are related at the community and species level in a grassland biodiversity experiment. Advances in Ecological Research, 2019, 61, 55-89.	2.7	12
34	rhizoTrak: a flexible open source Fiji plugin for user-friendly manual annotation of time-series images from minirhizotrons. Plant and Soil, 2019, 444, 519-534.	3.7	13
35	Fine root lignin content is well predictable with near-infrared spectroscopy. Scientific Reports, 2019, 9, 6396.	3.3	27
36	The Future of Complementarity: Disentangling Causes from Consequences. Trends in Ecology and Evolution, 2019, 34, 167-180.	8.7	246

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37	Origin context of trait data matters for predictions of community performance in a grassland biodiversity experiment. Ecology, 2018, 99, 1214-1226.	3.2	13
38	Belowâ€ground resource partitioning alone cannot explain the biodiversity–ecosystem function relationship: A field test using multiple tracers. Journal of Ecology, 2018, 106, 2002-2018.	4.0	53
39	Genotypic variability enhances the reproducibility of an ecological study. Nature Ecology and Evolution, 2018, 2, 279-287.	7.8	41
40	Belowâ€ground complementarity effects in a grassland biodiversity experiment are related to deepâ€rooting species. Journal of Ecology, 2018, 106, 265-277.	4.0	76
41	Trait means, trait plasticity and trait differences to other species jointly explain species performances in grasslands of varying diversity. Oikos, 2018, 127, 865-865.	2.7	30
42	Dynamic niche partitioning in root water uptake facilitates efficient water use in more diverse grassland plant communities. Functional Ecology, 2018, 32, 214-227.	3.6	51
43	Interspecific trait differences rather than intraspecific trait variation increase the extent and filling of community trait space with increasing plant diversity in experimental grasslands. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 33, 42-50.	2.7	14
44	Multiple facets of biodiversity drive the diversity–stability relationship. Nature Ecology and Evolution, 2018, 2, 1579-1587.	7.8	296
45	Connecting experimental biodiversity research to real-world grasslands. Perspectives in Plant Ecology, Evolution and Systematics, 2018, 33, 78-88.	2.7	15
46	Biodiversity–multifunctionality relationships depend on identity and number of measured functions. Nature Ecology and Evolution, 2018, 2, 44-49.	7.8	155
47	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. Oecologia, 2017, 185, 499-511.	2.0	13
48	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. Basic and Applied Ecology, 2017, 23, 1-73.	2.7	307
49	Plant species richness negatively affects root decomposition in grasslands. Journal of Ecology, 2017, 105, 209-218.	4.0	41
50	Plants are less negatively affected by flooding when growing in speciesâ€rich plant communities. New Phytologist, 2017, 213, 645-656.	7.3	79
51	Effect of plant diversity on the diversity of soil organic compounds. PLoS ONE, 2017, 12, e0170494.	2.5	31
52	Longâ€ŧerm effects of plant diversity and composition on plant stoichiometry. Oikos, 2016, 125, 613-621.	2.7	33
53	Mechanisms behind plant diversity effects on inorganic and organic N leaching from temperate grassland. Biogeochemistry, 2016, 131, 339-353.	3.5	25
54	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. Ecosphere, 2016, 7, e01619.	2.2	87

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55	Ecologically diverse and distinct neighbourhoods trigger persistent phenotypic consequences, and amine metabolic profiling detects them. Journal of Ecology, 2016, 104, 125-137.	4.0	5
56	Predicting stochastic community dynamics in grasslands under the assumption of competitive symmetry. Journal of Theoretical Biology, 2016, 399, 53-61.	1.7	31
57	Plant species diversity affects soil–atmosphere fluxes of methane and nitrous oxide. Oecologia, 2016, 181, 919-930.	2.0	56
58	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
59	Plant species richness and functional traits affect community stability after a flood event. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150276.	4.0	56
60	Plant–soil feedbacks: role of plant functional group and plant traits. Journal of Ecology, 2016, 104, 1608-1617.	4.0	213
61	Plant diversity and root traits benefit physical properties key to soil function in grasslands. Ecology Letters, 2016, 19, 1140-1149.	6.4	211
62	From pots to plots: hierarchical traitâ€based prediction of plant performance in a mesic grassland. Journal of Ecology, 2016, 104, 206-218.	4.0	51
63	Management Intensity Modifies Plant Diversity Effects on N Yield and Mineral N in Soil. Soil Science Society of America Journal, 2015, 79, 559-568.	2.2	3
64	Flooding disturbances increase resource availability and productivity but reduce stability in diverse plant communities. Nature Communications, 2015, 6, 6092.	12.8	116
65	Biodiversity increases the resistance of ecosystem productivity to climate extremes. Nature, 2015, 526, 574-577.	27.8	1,032
66	No Evidence of Complementary Water Use along a Plant Species Richness Gradient in Temperate Experimental Grasslands. PLoS ONE, 2015, 10, e0116367.	2.5	54
67	Effects of Plant Diversity, Functional Group Composition, and Fertilization on Soil Microbial Properties in Experimental Grassland. PLoS ONE, 2015, 10, e0125678.	2.5	37
68	Quantifying resource use complementarity in grassland species: A comparison of different nutrient tracers. Pedobiologia, 2014, 57, 251-256.	1.2	14
69	Longâ€ŧerm study of root biomass in a biodiversity experiment reveals shifts in diversity effects over time. Oikos, 2014, 123, 1528-1536.	2.7	165
70	Plant Diversity Impacts Decomposition and Herbivory via Changes in Aboveground Arthropods. PLoS ONE, 2014, 9, e106529.	2.5	73
71	A comparison of the strength of biodiversity effects across multiple functions. Oecologia, 2013, 173, 223-237.	2.0	91
72	An improved model to predict the effects of changing biodiversity levels on ecosystem function. Journal of Ecology, 2013, 101, 344-355.	4.0	56

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73	Plant diversity does not buffer drought effects on earlyâ€stage litter mass loss rates and microbial properties. Global Change Biology, 2013, 19, 2795-2803.	9.5	76
74	Predicting ecosystem stability from community composition and biodiversity. Ecology Letters, 2013, 16, 617-625.	6.4	251
75	Biodiversity Effects on Plant Stoichiometry. PLoS ONE, 2013, 8, e58179.	2.5	71
76	Grassland Resistance and Resilience after Drought Depends on Management Intensity and Species Richness. PLoS ONE, 2012, 7, e36992.	2.5	177
77	Plant diversity effects on aboveground and belowground N pools in temperate grassland ecosystems: Development in the first 5 years after establishment. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	90
78	High plant diversity is needed to maintain ecosystem services. Nature, 2011, 477, 199-202.	27.8	1,195
79	Impact of above―and belowâ€ground invertebrates on temporal and spatial stability of grassland of different diversity. Journal of Ecology, 2011, 99, 572-582.	4.0	27
80	ldentifying population―and communityâ€level mechanisms of diversity–stability relationships in experimental grasslands. Journal of Ecology, 2011, 99, 1460-1469.	4.0	105
81	N2 fixation and performance of 12 legume species in a 6-year grassland biodiversity experiment. Plant and Soil, 2011, 341, 333-348.	3.7	51
82	Plant Diversity Surpasses Plant Functional Groups and Plant Productivity as Driver of Soil Biota in the Long Term. PLoS ONE, 2011, 6, e16055.	2.5	172
83	Amino acid fingerprint of a grassland soil reflects changes in plant species richness. Plant and Soil, 2010, 334, 353-363.	3.7	22
84	Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. Nature, 2010, 468, 553-556.	27.8	786
85	The Jena Experiment: six years of data from a grassland biodiversity experiment. Ecology, 2010, 91, 930-931.	3.2	94
86	Positive biodiversity–productivity relationship due to increased plant density. Journal of Ecology, 2009, 97, 696-704.	4.0	141
87	Plant species richness and functional composition drive overyielding in a sixâ€year grassland experiment. Ecology, 2009, 90, 3290-3302.	3.2	317
88	Does biodiversity increase spatial stability in plant community biomass?. Ecology Letters, 2008, 11, 338-347.	6.4	120
89	Identifying mechanisms of competition in multi-species communities. Journal of Ecology, 2007, 95, 53-64.	4.0	75
90	On the hyperbolic competition model: reply. Journal of Ecology, 2007, 95, 601-602.	4.0	0