Markus Bernhardt-RÃ¶mermann

List of Publications by Year
in descending order

71 papers	5,307 citations	136950 32 h-index	91884 69 g-index
75 all docs	75 docs citations	75 times ranked	8671 citing authors

#	Article	IF	Citations
1	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
2	Biodiversity Differences between Managed and Unmanaged Forests: Metaâ€Analysis of Species Richness in Europe. Conservation Biology, 2010, 24, 101-112.	4.7	679
3	Microclimate moderates plant responses to macroclimate warming. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18561-18565.	7.1	523
4	Forest microclimate dynamics drive plant responses to warming. Science, 2020, 368, 772-775.	12.6	385
5	Driving factors behind the eutrophication signal in understorey plant communities of deciduous temperate forests. Journal of Ecology, 2012, 100, 352-365.	4.0	214
6	Herb-layer diversity in deciduous forests: Raised by tree richness or beaten by beech?. Forest Ecology and Management, 2008, 256, 272-281.	3.2	155
7	Forest floor vegetation response to nitrogen deposition in Europe. Global Change Biology, 2014, 20, 429-440.	9.5	139
8	Functional traits and local environment predict vegetation responses to disturbance: a panâ€European multiâ€site experiment. Journal of Ecology, 2011, 99, 777-787.	4.0	125
9	Drivers of temporal changes in temperate forest plant diversity vary across spatial scales. Global Change Biology, 2015, 21, 3726-3737.	9.5	124
10	Impacts of Land Abandonment on Vegetation: Successional Pathways in European Habitats. Folia Geobotanica, 2011, 46, 303-325.	0.9	116
11	On the identification of the most suitable traits for plant functional trait analyses. Oikos, 2008, 117, 1533-1541.	2.7	94
12	Global environmental change effects on plant community composition trajectories depend upon management legacies. Global Change Biology, 2018, 24, 1722-1740.	9.5	93
13	Combining Biodiversity Resurveys across Regions to Advance Global Change Research. BioScience, 2017, 67, 73-83.	4.9	89
14	Explaining grassland biomass â€“ the contribution of climate, species and functional diversity depends on fertilization and mowing frequency. Journal of Applied Ecology, 2011, 48, 1088-1097.	4.0	88
15	Substitutes for grazing in semiâ€natural grasslands â€“ do mowing or mulching represent valuable alternatives to maintain vegetation structure?. Journal of Vegetation Science, 2009, 20, 1086-1098.	2.2	76
16	The impact of study design and life history traits on genetic variation of plants determined with AFLPs. Plant Ecology, 2014, 215, 1493-1511.	1.6	72
17	Impacts of land-use on West African savanna vegetation: a comparison between protected and communal area in Burkina Faso. Biodiversity and Conservation, 2011, 20, 3341-3362.	2.6	70
18	Replacements of small- by large-ranged species scale up to diversity loss in Europeâ€™s temperate forest biome. Nature Ecology and Evolution, 2020, 4, 802-808.	7.8	67

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19	Changes in the dominant assembly mechanism drive species loss caused by declining resources. Ecology Letters, 2016, 19, 163-170.	6.4	60
20	Elevated NH3 and NO2 air concentrations and nitrogen deposition rates in the vicinity of a highway in Southern Bavaria. Atmospheric Environment, 2005, 39, 4531-4542.	4.1	59
21	Short-term effects of temperature enhancement on growth and reproduction of alpine grassland species. Basic and Applied Ecology, 2008, 9, 263-274.	2.7	58
22	Understanding context dependency in the response of forest understorey plant communities to nitrogen deposition. Environmental Pollution, 2018, 242, 1787-1799.	7.5	49
23	Resurvey of historical vegetation plots: a tool for understanding longâ€term dynamics of plant communities. Applied Vegetation Science, 2017, 20, 161-163.	1.9	48
24	The impact of road disturbance on vegetation and soil properties in a beech stand, Hyrcanian forest. European Journal of Forest Research, 2018, 137, 759-770.	2.5	47
25	Dimensions of invasiveness: Links between local abundance, geographic range size, and habitat breadth in Europeâ€™s alien and native floras. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	47
26	Changes in life history trait composition during undisturbed old-field succession. Flora: Morphology, Distribution, Functional Ecology of Plants, 2008, 203, 508-522.	1.2	41
27	Directional turnover towards largerâ€ranged plants over time and across habitats. Ecology Letters, 2022, 25, 466-482.	6.4	39
28	Longâ€distance seed dispersal by wind: disentangling the effects of species traits, vegetation types, vertical turbulence and wind speed. Ecological Research, 2014, 29, 641-651.	1.5	38
29	Plant functional trait response to environmental drivers across European temperate forest understorey communities. Plant Biology, 2020, 22, 410-424.	3.8	38
30	Adaptation of plant functional group composition to management changes in calcareous grassland. Agriculture, Ecosystems and Environment, 2011, 145, 29-37.	5.3	36
31	The influence of termite-induced heterogeneity on savanna vegetation along a climatic gradient in West Africa. Journal of Tropical Ecology, 2013, 29, 11-23.	1.1	35
32	Elevation matters: contrasting effects of climate change on the vegetation development at different elevations in the Bavarian Alps. Alpine Botany, 2014, 124, 143-154.	2.4	35
33	BryForTrait â€“ A lifeâ€history trait database of forest bryophytes. Journal of Vegetation Science, 2018, 29, 798-800.	2.2	33
34	Functional trait variation of forest understorey plant communities across Europe. Basic and Applied Ecology, 2019, 34, 1-14.	2.7	33
35	Human impact on population structure and fruit production of the socio-economically important tree Lannea microcarpa in Burkina Faso. Agroforestry Systems, 2013, 87, 1363-1375.	2.0	32
36	Plant movements and climate warming: intraspecific variation in growth responses to nonlocal soils. New Phytologist, 2014, 202, 431-441.	7.3	29

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37	Taxonomic, phylogenetic and functional diversity of understorey plants respond differently to environmental conditions in European forest edges. Journal of Ecology, 2021, 109, 2629-2648.	4.0	28
38	Plant functional traits â€“ fixed facts or variable depending on the season?. Folia Geobotanica, 2016, 51, 143-159.	0.9	27
39	Rare species, functional groups, and evolutionary lineages drive successional trajectories in disturbed forests. Ecology, 2020, 101, e02949.	3.2	26
40	Longâ€term effects of nitrogen deposition on vegetation in a deciduous forest near Munich, Germany. Applied Vegetation Science, 2007, 10, 399-406.	1.9	25
41	European beech leads to more bioactive humus forms but stronger mineral soil acidification as Norway spruce and Scots pine â€“ Results of a repeated site assessment after 63 and 82Âyears of forest conversion in Central Germany. Forest Ecology and Management, 2021, 483, 118769.	3.2	25
42	Chlorophyll fluorescence and gas exchange measurements in field research: an ecological case study. Photosynthetica, 2018, 56, 1161-1170.	1.7	20
43	The estimation of aboveground biomass and nutrient pools of understorey plants in closed Norway spruce forests and on clearcuts. European Journal of Forest Research, 2010, 129, 613-624.	2.5	19
44	A modelâ€based approach to studying changes in compositional heterogeneity. Methods in Ecology and Evolution, 2014, 5, 156-164.	5.2	19
45	Geese are overlooked dispersal vectors for vascular plants in archipelago environments. Journal of Vegetation Science, 2019, 30, 533-541.	2.2	19
46	High Functional Diversity is Related to High Nitrogen Availability in a Deciduous Forest â€“ Evidence from a Functional Trait Approach. Folia Geobotanica, 2010, 45, 111-124.	0.9	18
47	Population Structure of Woody Plants in Relation to Land Use in a Semiâ€arid Savanna, West Africa. Biotropica, 2012, 44, 744-751.	1.6	17
48	The contribution of termite mounds to landscapeâ€scale variation in vegetation in a West African national park. Journal of Vegetation Science, 2017, 28, 105-116.	2.2	17
49	Using incomplete floristic monitoring data from habitat mapping programmes to detect species trends. Diversity and Distributions, 2020, 26, 782-794.	4.1	15
50	Effects of Climate and Land Use on Herbaceous Species Richness and Vegetation Composition in West African Savanna Ecosystems. Journal of Botany, 2016, 2016, 1-11.	1.2	14
51	Vegetation changes over the past two decades in a West African savanna ecosystem. Applied Vegetation Science, 2019, 22, 230-242.	1.9	14
52	Responses of competitive understorey species to spatial environmental gradients inaccurately explain temporal changes. Basic and Applied Ecology, 2018, 30, 52-64.	2.7	11
53	Landâ€use impact on the growth and survival of seedlings and saplings in <scp>W</scp>est <scp>A</scp>frican savannas. Journal of Vegetation Science, 2013, 24, 101-112.	2.2	9
54	Coppicing systems as a way of understanding patterns in forest vegetation. Folia Geobotanica, 2017, 52, 1-3.	0.9	9

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55	New insights into island vegetation composition and species diversityâ€"Consistent and conditional responses across contrasting insular habitats at the plot-scale. PLoS ONE, 2018, 13, e0200191.	2.5	9
56	Compromises in Data Selection in a Metaâ€Analysis of Biodiversity in Managed and Unmanaged Forests: Response to Halme et al.. Conservation Biology, 2010, 24, 1157-1160.	4.7	8
57	Seasonal synchronization of seed release phenology promotes longâ€distance seed dispersal by wind for tree species with medium wind dispersal potential. Journal of Vegetation Science, 2015, 26, 1090-1101.	2.2	8
58	On the structural and species diversity effects of bark beetle disturbance in forests during initial and advanced early-seral stages at different scales. European Journal of Forest Research, 2017, 136, 357-373.	2.5	6
59	Effects of Moderate Nitrate and Low Sulphate Depositions on the Status of Soil Base Cation Pools and Recent Mineral Soil Acidification at Forest Conversion Sites with European Beech (â€œGreen Eyesâ€) Embedded in Norway Spruce and Scots Pine Stands. Forests, 2021, 12, 573.	2.1	6
60	Effects of climate, habitat and land use on the cover and diversity of the savanna herbaceous layer in Burkina Faso, West Africa. Folia Geobotanica, 2017, 52, 129-142.	0.9	5
61	Diversity and occurrence of herbaceous communities in West African savannas in relation to climate, land use and habitat. Folia Geobotanica, 2018, 53, 17-39.	0.9	5
62	Mycorrhizal infection indicates the suitability of different management treatments for nature conservation in calcareous grassland. Botanica Helvetica, 2009, 119, 87.	1.1	4
63	Reply to Harwood et al.: Thermophilization estimation is robust to the scale of species distribution data. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1166-E1166.	7.1	4
64	Thermal differences between juveniles and adults increased over time in European forest trees. Journal of Ecology, 2021, 109, 3944-3957.	4.0	4
65	The impact of livestock grazing and canopy gaps on species pool and functional diversity of ground flora in the Caspian beech forests of Iran. Applied Vegetation Science, 2021, 24, e12592.	1.9	3
66	Response to Comment on â€œForest microclimate dynamics drive plant responses to warmingâ€• Science, 2020, 370, .	12.6	3
67	DISPERSAL POTENTIAL OF HERBACEOUS SPECIES ACCORDING TO CLIMATE, LAND USE AND HABITAT CONDITIONS IN WEST AFRICAN SAVANNAH. Bois Et Forets Des Tropiques, 0, 332, 69-87.	0.2	2
68	Response to Comment on â€œForest microclimate dynamics drive plant responses to warmingâ€• Science, 2020, 370, .	12.6	1
69	A checklist for using Bealsâ€™ index with incomplete floristic monitoring data. Diversity and Distributions, 2021, 27, 1328-1333.	4.1	1
70	The contribution of different habitat types to species diversity of Baltic uplift islands. Basic and Applied Ecology, 2019, 41, 22-32.	2.7	0
71	Estimating historic N- and S-deposition with publicly available data â€“ An example from Central Germany. Environmental Pollution, 2022, 292, 118378.	7.5	0