

Frank Berendse

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

12,631
citations

19608

61
h-index

26548

107
g-index

113
all docs

113
docs citations

113
times ranked

13148
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent negative effects of pesticides on biodiversity and biological control potential on European farmland. <i>Basic and Applied Ecology</i> , 2010, 11, 97-105.	1.2	1,039
2	Consequences of biodiversity loss for litter decomposition across biomes. <i>Nature</i> , 2014, 509, 218-221.	13.7	600
3	Agri-environment schemes do not effectively protect biodiversity in Dutch agricultural landscapes. <i>Nature</i> , 2001, 413, 723-725.	13.7	526
4	Plant species identity and diversity effects on different trophic levels of nematodes in the soil food web. <i>Oikos</i> , 2004, 106, 576-586.	1.2	356
5	Diversity-productivity relationships: Initial effects, long-term patterns, and underlying mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 695-700.	3.3	335
6	Reconciling complexity with stability in naturally assembling food webs. <i>Nature</i> , 2007, 449, 599-602.	13.7	328
7	Raised atmospheric CO ₂ levels and increased N deposition cause shifts in plant species composition and production in Sphagnum bogs. <i>Global Change Biology</i> , 2001, 7, 591-598.	4.2	307
8	The effect of increased nutrient availability on vegetation dynamics in wet heathlands. <i>Plant Ecology</i> , 1988, 76, 63-69.	1.2	279
9	A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes. <i>Global Change Biology</i> , 2017, 23, 4946-4957.	4.2	259
10	Predicting ecosystem stability from community composition and biodiversity. <i>Ecology Letters</i> , 2013, 16, 617-625.	3.0	251
11	Diversity enhances community recovery, but not resistance, after drought. <i>Journal of Ecology</i> , 2010, 98, 81-86.	1.9	227
12	Loss of Plant Species Diversity Reduces Soil Erosion Resistance. <i>Ecosystems</i> , 2015, 18, 881-888.	1.6	222
13	Agricultural intensification and biodiversity partitioning in European landscapes comparing plants, carabids, and birds. , 2011, 21, 1772-1781.		221
14	Plant species richness promotes soil carbon and nitrogen stocks in grasslands without legumes. <i>Journal of Ecology</i> , 2014, 102, 1163-1170.	1.9	220
15	Unveiling belowground species abundance in a biodiversity experiment: a test of vertical niche differentiation among grassland species. <i>Journal of Ecology</i> , 2010, 98, 1117-1127.	1.9	219
16	Mixed effects of organic farming and landscape complexity on farmland biodiversity and biological control potential across Europe. <i>Journal of Applied Ecology</i> , 2011, 48, 570-579.	1.9	205
17	Competition in Heathland along an Experimental Gradient of Nutrient Availability. <i>Oikos</i> , 1990, 57, 310.	1.2	181
18	Diversity reduces invasibility in experimental plant communities: the role of plant species. <i>Ecology Letters</i> , 2003, 6, 910-918.	3.0	180

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19	Litter Decomposability – A Neglected Component of Plant Fitness. <i>Journal of Ecology</i> , 1994, 82, 187.	1.9	179
20	Ecological Effectiveness of Agri-Environment Schemes in Different Agricultural Landscapes in The Netherlands. <i>Conservation Biology</i> , 2004, 18, 775-786.	2.4	177
21	Root morphological plasticity and nutrient acquisition of perennial grass species from habitats of different nutrient availability. <i>Oecologia</i> , 1998, 115, 351-358.	0.9	175
22	SOIL NUTRIENT HETEROGENEITY ALTERS COMPETITION BETWEEN TWO PERENNIAL GRASS SPECIES. <i>Ecology</i> , 2001, 82, 2534-2546.	1.5	174
23	Effects of Dominant Plant Species on Soils during Succession in Nutrient-poor Ecosystems. <i>Biogeochemistry</i> , 1998, 42, 73-88.	1.7	168
24	Positive effects of plant species diversity on productivity in the absence of legumes. <i>Ecology Letters</i> , 2003, 6, 170-175.	3.0	168
25	Lost in diversity: the interactions between soil-borne fungi, biodiversity and plant productivity. <i>New Phytologist</i> , 2018, 218, 542-553.	3.5	160
26	Effects of nutrients and shade on tree-grass interactions in an East African savanna. <i>Journal of Vegetation Science</i> , 2001, 12, 579-588.	1.1	153
27	N deposition affects N availability in interstitial water, growth of Sphagnum and invasion of vascular plants in bog vegetation. <i>New Phytologist</i> , 2003, 157, 339-347.	3.5	151
28	Artificial light at night causes diapause inhibition and sex-specific life history changes in a moth. <i>Ecology and Evolution</i> , 2014, 4, 2082-2089.	0.8	151
29	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. <i>Nature Climate Change</i> , 2015, 5, 67-70.	8.1	147
30	Competition and Nutrient Availability in Heathland and Grassland Ecosystems. , 1990, , 93-116.		139
31	Reduced plant-soil feedback of plant species expanding their range as compared to natives. <i>Journal of Ecology</i> , 2007, 95, 1050-1057.	1.9	131
32	How litter quality affects mass loss and N loss from decomposing Sphagnum. <i>Oikos</i> , 2003, 103, 537-547.	1.2	128
33	How Phosphorus Availability Affects the Impact of Nitrogen Deposition on Sphagnum and Vascular Plants in Bogs. <i>Ecosystems</i> , 2004, 7, 793-804.	1.6	128
34	Decreased summer water table depth affects peatland vegetation. <i>Basic and Applied Ecology</i> , 2009, 10, 330-339.	1.2	124
35	Factors underlying farmers' intentions to perform unsubsidised agri-environmental measures. <i>Land Use Policy</i> , 2016, 59, 207-216.	2.5	124
36	Experimental illumination of natural habitat—an experimental set-up to assess the direct and indirect ecological consequences of artificial light of different spectral composition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140129.	1.8	120

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37	The angiosperm radiation revisited, an ecological explanation for Darwin's "abominable mystery". Ecology Letters, 2009, 12, 865-872.	3.0	118
38	Effects of elevated carbon dioxide and increased nitrogen deposition on bog vegetation in the Netherlands. Journal of Ecology, 2001, 89, 268-279.	1.9	115
39	Competition between plant populations with different rooting depths. Oecologia, 1982, 53, 50-55.	0.9	114
40	Artificial light at night inhibits mating in a Geometrid moth. Insect Conservation and Diversity, 2015, 8, 282-287.	1.4	106
41	Interactive effects of water table and precipitation on net CO ₂ assimilation of three co-occurring <i>Sphagnum</i> mosses differing in distribution above the water table. Global Change Biology, 2009, 15, 680-691.	4.2	104
42	The effect of temperature on growth and competition between <i>Sphagnum</i> species. Oecologia, 2008, 156, 155-167.	0.9	94
43	Energy or nutrient regulation of decomposition: Implications for the mineralization-immobilization response to perturbations. Soil Biology and Biochemistry, 1984, 16, 63-67.	4.2	92
44	The effect of plant species on soil nitrogen mineralization. Journal of Ecology, 2001, 89, 555-561.	1.9	90
45	Leaf litter quality drives litter mixing effects through complementary resource use among detritivores. Oecologia, 2013, 173, 269-280.	0.9	90
46	Plant species as predictors of soil pH: Replacing expert judgement with measurements. Journal of Vegetation Science, 2005, 16, 461-470.	1.1	88
47	Plant species and nutritional-mediated control over rhizodeposition and root decomposition. Plant and Soil, 2001, 228, 191-200.	1.8	87
48	Declining Biodiversity in Agricultural Landscapes and the Effectiveness of Agri-environment Schemes. Ambio, 2004, 33, 499-502.	2.8	87
49	The effect of lignin and nitrogen on the decomposition of litter in nutrient-poor ecosystems: a theoretical approach. Canadian Journal of Botany, 1987, 65, 1116-1120.	1.2	86
50	Competition between Plant Populations at Low and High Nutrient Supplies. Oikos, 1994, 71, 253.	1.2	86
51	Response of ground-nesting farmland birds to agricultural intensification across Europe: Landscape and field level management factors. Biological Conservation, 2012, 152, 74-80.	1.9	86
52	Long-term effects of climate change on vegetation and carbon dynamics in peat bogs. Journal of Vegetation Science, 2008, 19, 307-320.	1.1	85
53	Direct and indirect effects of the most widely implemented Dutch agri-environment schemes on breeding waders. Journal of Applied Ecology, 2006, 44, 70-80.	1.9	83
54	Competition between plant populations with different rooting depths II. Pot experiments. Oecologia, 1981, 48, 334-341.	0.9	79

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55	Diversity of symbiotic root endophytes of the Helotiales in ericaceous plants and the grass, <i>Deschampsia flexuosa</i> . <i>Studies in Mycology</i> , 2005, 53, 147-162.	4.5	78
56	Macro- and detritivore identity drives leaf litter diversity effects. <i>Oikos</i> , 2011, 120, 1092-1098.	1.2	77
57	Plant-soil interactions in the expansion and native range of a poleward shifting plant species. <i>Global Change Biology</i> , 2010, 16, 380-385.	4.2	75
58	Experimental manipulation of succession in heathland ecosystems. <i>Oecologia</i> , 1994, 100-100, 38-44.	0.9	74
59	Collective agri-environment schemes: How can regional environmental cooperatives enhance farmers' intentions for agri-environment schemes?. <i>Land Use Policy</i> , 2015, 42, 759-766.	2.5	73
60	The Nitrogen Cycle in Boreal Peatlands. , 2006, , 195-230.		69
61	Artificial night lighting disrupts sex pheromone in a noctuid moth. <i>Ecological Entomology</i> , 2015, 40, 401-408.	1.1	69
62	Photosynthetic performance in <i>Sphagnum</i> transplanted along a latitudinal nitrogen deposition gradient. <i>Oecologia</i> , 2009, 159, 705-715.	0.9	68
63	Methane emissions in two drained peat agro-ecosystems with high and low agricultural intensity. <i>Plant and Soil</i> , 2010, 329, 509-520.	1.8	68
64	Plant species richness regulates soil respiration through changes in productivity. <i>Oecologia</i> , 2010, 163, 805-813.	0.9	67
65	The effect of increased temperature and nitrogen deposition on decomposition in bogs. <i>Oikos</i> , 2008, 117, 1258-1268.	1.2	60
66	Effects of Increased Nitrogen Deposition on the Distribution of ¹⁵ N-labeled Nitrogen between <i>Sphagnum</i> and Vascular Plants. <i>Ecosystems</i> , 2002, 5, 500-508.	1.6	57
67	Can frequent precipitation moderate the impact of drought on peatmoss carbon uptake in northern peatlands?. <i>New Phytologist</i> , 2014, 203, 70-80.	3.5	57
68	Impacts of Elevated Carbon Dioxide and Temperature on a Boreal Forest Ecosystem (CLIMEX Project). <i>Ecosystems</i> , 1998, 1, 345-351.	1.6	55
69	Effects of competition on root-shoot allocation in <i>Plantago lanceolata</i> L.: adaptive plasticity or ontogenetic drift?. <i>Plant Ecology</i> , 2009, 201, 567-573.	0.7	55
70	Recovery of plant species richness during long-term fertilization of a species-rich grassland. <i>Ecology</i> , 2011, 92, 1393-1398.	1.5	53
71	Competition between <i>Sphagnum magellanicum</i> and <i>Eriophorum angustifolium</i> as affected by raised CO ₂ and increased N deposition. <i>Oikos</i> , 2002, 97, 415-425.	1.2	52
72	Landscape composition influences farm management effects on farmland birds in winter: A pan-European approach. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 571-577.	2.5	51

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73	Changes in soil and vegetation during dune slack succession. <i>Journal of Vegetation Science</i> , 2004, 15, 209-218.	1.1	49
74	Seasonal changes and vertical distribution of root standing biomass of graminoids and shrubs at a Siberian tundra site. <i>Plant and Soil</i> , 2016, 407, 55-65.	1.8	49
75	Above- and below-ground responses of four tundra plant functional types to deep soil heating and surface soil fertilization. <i>Journal of Ecology</i> , 2017, 105, 947-957.	1.9	49
76	Field Simulation of Global Change: Transplanting Northern Bog Mesocosms Southward. <i>Ecosystems</i> , 2010, 13, 712-726.	1.6	47
77	Interactions between spatially separated herbivores indirectly alter plant diversity. <i>Ecology Letters</i> , 2004, 8, 30-37.	3.0	46
78	Effects of elevated CO ₂ and vascular plants on evapotranspiration in bog vegetation. <i>Global Change Biology</i> , 2001, 7, 817-827.	4.2	44
79	Embryo dune development drivers: beach morphology, growing season precipitation, and storms. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1733-1744.	1.2	44
80	The interaction between epiphytic algae, a parasitic fungus and Sphagnum as affected by N and P. <i>Oikos</i> , 2003, 103, 59-68.	1.2	43
81	Response of Sphagnum species mixtures to increased temperature and nitrogen availability. <i>Plant Ecology</i> , 2009, 204, 97-111.	0.7	43
82	Do meadow birds profit from agri-environment schemes in Dutch agricultural landscapes?. <i>Biological Conservation</i> , 2009, 142, 2949-2953.	1.9	41
83	Agriculture intensification reduces plant taxonomic and functional diversity across European arable systems. <i>Functional Ecology</i> , 2020, 34, 1448-1460.	1.7	39
84	Response of a Sphagnum bog plant community to elevated CO ₂ and N supply. <i>Plant Ecology</i> , 2002, 162, 123-134.	0.7	37
85	Experimental light at night has a negative long-term impact on macro-moth populations. <i>Current Biology</i> , 2020, 30, R694-R695.	1.8	36
86	Taxonomic and functional diversity of farmland bird communities across Europe: effects of biogeography and agricultural intensification. <i>Biodiversity and Conservation</i> , 2011, 20, 3663-3681.	1.2	34
87	The effect of nutrient supply and light intensity on tannins and mycorrhizal colonisation in Dutch heathland ecosystems. <i>Plant Ecology</i> , 2009, 201, 661-675.	0.7	33
88	Short-term and long-term effects of tannins on nitrogen mineralisation and litter decomposition in kauri (<i>Agathis australis</i> (D. Don) Lindl.) forests. <i>Plant and Soil</i> , 2006, 287, 337-345.	1.8	32
89	Plant-Herbivore Interaction and Its Consequences for Succession in Wetland Ecosystems: A Modeling Approach. <i>Ecosystems</i> , 1999, 2, 122-138.	1.6	31
90	Species' traits influence ground beetle responses to farm and landscape level agricultural intensification in Europe. <i>Journal of Insect Conservation</i> , 2014, 18, 837-846.	0.8	31

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91	Diversity effects on root length production and loss in an experimental grassland community. <i>Functional Ecology</i> , 2015, 29, 1560-1568.	1.7	31
92	Title is missing!. <i>Plant Ecology</i> , 2000, 148, 51-59.	0.7	26
93	Habitat use and diet of Skylarks (<i>Alauda arvensis</i>) wintering in an intensive agricultural landscape of the Netherlands. <i>Journal of Ornithology</i> , 2014, 155, 507-518.	0.5	26
94	Including hydrological self-regulating processes in peatland models: Effects on peatmoss drought projections. <i>Science of the Total Environment</i> , 2017, 580, 1389-1400.	3.9	26
95	Soil heterogeneity and plant species diversity in experimental grassland communities: contrasting effects of soil nutrients and pH at different spatial scales. <i>Plant and Soil</i> , 2019, 442, 497-509.	1.8	26
96	The effectiveness of ditch banks as dispersal corridor for plants in agricultural landscapes depends on species's dispersal traits. <i>Biological Conservation</i> , 2014, 171, 91-98.	1.9	24
97	The role of summer precipitation and summer temperature in establishment and growth of dwarf shrub <i>Betula nana</i> in northeast Siberian tundra. <i>Polar Biology</i> , 2016, 39, 1245-1255.	0.5	24
98	Spatial heterogeneity in plant-soil feedbacks alters competitive interactions between two grassland plant species. <i>Functional Ecology</i> , 2018, 32, 2085-2094.	1.7	24
99	How Does Tree Density Affect Water Loss of Peatlands? A Mesocosm Experiment. <i>PLoS ONE</i> , 2014, 9, e91748.	1.1	23
100	Density-dependency and plant-soil feedback: former plant abundance influences competitive interactions between two grassland plant species through plant-soil feedbacks. <i>Plant and Soil</i> , 2018, 428, 441-452.	1.8	20
101	Effects of litters with different concentrations of phenolics on the competition between <i>Calluna vulgaris</i> and <i>Deschampsia flexuosa</i> . <i>Plant and Soil</i> , 2010, 327, 131-141.	1.8	19
102	Thaw pond development and initial vegetation succession in experimental plots at a Siberian lowland tundra site. <i>Plant and Soil</i> , 2017, 420, 147-162.	1.8	19
103	MODEL ANALYSIS OF THE EFFECTS OF HISTORIC CO ₂ LEVELS AND NITROGEN INPUTS ON VEGETATION SUCCESSION. , 1999, 9, 920-935.		16
104	A matter of time: Recovery of plant species diversity in wild plant communities at declining nitrogen deposition. <i>Diversity and Distributions</i> , 2021, 27, 1180-1193.	1.9	16
105	High-resolution peat volume change in a northern peatland: Spatial variability, main drivers, and impact on ecohydrology. <i>Ecohydrology</i> , 2019, 12, e2114.	1.1	14
106	Temporal effects of agri-environment schemes on ditch bank plant species. <i>Basic and Applied Ecology</i> , 2013, 14, 289-297.	1.2	13
107	SOIL NUTRIENT HETEROGENEITY ALTERS COMPETITION BETWEEN TWO PERENNIAL GRASS SPECIES. , 2001, 82, 2534.		12
108	Do Field Margins Enrich the Diet of the Eurasian Skylark (<i>Alauda arvensis</i>) on Intensive Farmland?. <i>Ardea</i> , 2014, 102, 161-174.	0.3	9

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109	Effects of grass field margin management on food availability for Black-tailed Godwit chicks. Journal for Nature Conservation, 2016, 29, 45-50.	0.8	7
110	Food Availability for Meadow Bird Families in Grass Field Margins. Ardea, 2015, 103, 17-26.	0.3	5
111	Plant species as predictors of soil pH: Replacing expert judgement with measurements. , 2005, 16, 461.		5
112	Travelling to a former sea floor: colonization of forests by understorey plant species on land recently reclaimed from the sea. Journal of Vegetation Science, 2010, 21, 167-176.	1.1	2