

Roland Bobbink

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

5,316
citations

126907

33
h-index

138484

58
g-index

67
all docs

67
docs citations

67
times ranked

5178
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of air-borne nitrogen pollutants on species diversity in natural and semi-natural European vegetation. <i>Journal of Ecology</i> , 1998, 86, 717-738.	4.0	1,056
2	Effects of nitrogen deposition and empirical nitrogen critical loads for ecoregions of the United States. , 2011, 21, 3049-3082.		373
3	Changes in species richness and composition in European acidic grasslands over the past 70 years: the contribution of cumulative atmospheric nitrogen deposition. <i>Global Change Biology</i> , 2010, 16, 344-357.	9.5	339
4	Nitrogen deposition threatens species richness of grasslands across Europe. <i>Environmental Pollution</i> , 2010, 158, 2940-2945.	7.5	316
5	Nitrous Oxide Emission and Denitrification in Chronically Nitrate-Loaded Riparian Buffer Zones. <i>Journal of Environmental Quality</i> , 2003, 32, 1194-1203.	2.0	214
6	Natural nitrogen filter fails in polluted raised bogs. <i>Global Change Biology</i> , 2000, 6, 583-586.	9.5	183
7	Decline of acid-sensitive plant species in heathland can be attributed to ammonium toxicity in combination with low pH. <i>New Phytologist</i> , 2005, 166, 551-564.	7.3	164
8	How nitrate leaching from agricultural lands provokes phosphate eutrophication in groundwater fed wetlands: the sulphur bridge. <i>Biogeochemistry</i> , 2010, 98, 1-7.	3.5	155
9	Ecosystem responses to reduced and oxidised nitrogen inputs in European terrestrial habitats. <i>Environmental Pollution</i> , 2011, 159, 665-676.	7.5	132
10	Atmospheric deposition and canopy exchange processes in heathland ecosystems. <i>Environmental Pollution</i> , 1992, 75, 29-37.	7.5	127
11	Nitrogen critical loads for natural and semi-natural ecosystems: The empirical approach. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 2413-2418.	2.4	122
12	Differential effects of ammonium and nitrate on three heathland species. <i>Plant Ecology</i> , 1998, 135, 185-196.	1.6	118
13	Nitrogen effects on plant species richness in herbaceous communities are more widespread and stronger than those of phosphorus. <i>Biological Conservation</i> , 2017, 212, 390-397.	4.1	114
14	A comparative study on nutrient cycling in wet heathland ecosystems. <i>Oecologia</i> , 1989, 78, 338-348.	2.0	110
15	Soil phosphorus constrains biodiversity across European grasslands. <i>Global Change Biology</i> , 2014, 20, 3814-3822.	9.5	105
16	Ecological impacts of atmospheric pollution and interactions with climate change in terrestrial ecosystems of the Mediterranean Basin: Current research and future directions. <i>Environmental Pollution</i> , 2017, 227, 194-206.	7.5	98
17	Differential effects of nitrate and ammonium on three fen bryophyte species in relation to pollutant nitrogen input. <i>New Phytologist</i> , 2004, 164, 451-458.	7.3	91
18	In search for key biogeochemical factors affecting plant species persistence in heathland and acidic grasslands: a comparison of common and rare species. <i>Journal of Applied Ecology</i> , 2008, 45, 680-687.	4.0	86

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19	Restoration management of abandoned chalk grassland in the Netherlands. <i>Biodiversity and Conservation</i> , 1993, 2, 616-626.	2.6	85
20	Nitrogen as a threat to European terrestrial biodiversity. , 2011, , 463-494.		73
21	Restoration ecology of aquatic and terrestrial vegetation on non-calcareous sandy soils in The Netherlands*. <i>Acta Botanica Neerlandica</i> , 1996, 45, 517-541.	0.9	69
22	Spatial Variation in Denitrification and N ₂ O Emission in Relation to Nitrate Removal Efficiency in a N-stressed Riparian Buffer Zone. <i>Ecosystems</i> , 2006, 9, 550-563.	3.4	67
23	The impact of nitrogen deposition on acid grasslands in the Atlantic region of Europe. <i>Environmental Pollution</i> , 2011, 159, 2243-2250.	7.5	67
24	Restoration of aquatic macrophyte vegetation in acidified and eutrophied softwater lakes: an overview. <i>Aquatic Botany</i> , 2002, 73, 405-431.	1.6	64
25	Variation in seed buoyancy of species in wetland ecosystems with different flooding dynamics. <i>Journal of Vegetation Science</i> , 2005, 16, 579-586.	2.2	64
26	Global assessment of the effects of terrestrial acidification on plant species richness. <i>Environmental Pollution</i> , 2013, 174, 10-15.	7.5	62
27	Changes in species composition of European acid grasslands observed along a gradient of nitrogen deposition. <i>Journal of Vegetation Science</i> , 2011, 22, 207-215.	2.2	60
28	Effects of nitrogen enrichment on coastal dune grassland: A mesocosm study. <i>Environmental Pollution</i> , 2005, 138, 77-85.	7.5	59
29	Impacts of tropospheric ozone and airborne nitrogenous pollutants on natural and semi-natural ecosystems: a commentary. <i>New Phytologist</i> , 1998, 139, 161-168.	7.3	58
30	Aluminium toxicity and tolerance in three heathland species. <i>Water, Air, and Soil Pollution</i> , 1997, 98, 229-239.	2.4	49
31	Evidence for differential effects of reduced and oxidised nitrogen deposition on vegetation independent of nitrogen load. <i>Environmental Pollution</i> , 2016, 208, 890-897.	7.5	49
32	Atmospheric nitrogen deposition and its impact on terrestrial ecosystems. , 1993, , 104-121.		49
33	Biodiversity, vegetation gradients and key biogeochemical processes in the heathland landscape. <i>Biological Conservation</i> , 2009, 142, 2191-2201.	4.1	46
34	Variation in seed buoyancy of species in wetland ecosystems with different flooding dynamics. <i>Journal of Vegetation Science</i> , 2005, 16, 579.	2.2	43
35	Effects of selective clipping and mowing time on species diversity in chalk grassland. <i>Folia Geobotanica Et Phytotaxonomica</i> , 1987, 22, 363-376.	0.4	37
36	â€œCallunaâ€, a simulation model for evaluation of impacts of atmospheric nitrogen deposition on dry heathlands. <i>Ecological Modelling</i> , 1993, 68, 161-182.	2.5	36

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37	Contrasting effects of ammonium enrichment on fen bryophytes. <i>Journal of Bryology</i> , 2005, 27, 109-117.	1.2	34
38	The effects of sod cutting and additional liming on potential net nitrification in heathland soils. <i>Plant and Soil</i> , 2004, 265, 267-277.	3.7	33
39	The effects of liming and reacidification on the growth of <i>Juncus bulbosus</i> : a mesocosm experiment. <i>Aquatic Botany</i> , 1999, 64, 95-103.	1.6	25
40	The effect of acidification, liming and reacidification on macrophyte development, water quality and sediment characteristics of soft-water lakes. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 967-972.	2.4	22
41	Ammonium as a Driving Force of Plant Diversity and Ecosystem Functioning: Observations Based on 5 Years' Manipulation of N Dose and Form in a Mediterranean Ecosystem. <i>PLoS ONE</i> , 2014, 9, e92517.	2.5	22
42	Continuous and cumulative acidification and N deposition induce P limitation of the micro-arthropod soil fauna of mineral-poor dry heathlands. <i>Soil Biology and Biochemistry</i> , 2018, 119, 128-134.	8.8	20
43	Long-term effects of liming on soil physico-chemical properties and micro-arthropod communities in Scotch pine forest. <i>Biology and Fertility of Soils</i> , 2019, 55, 675-683.	4.3	16
44	Sulphate and bicarbonate as key factors in sediment degradation and restoration of Lake Banen. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1999, 9, 121-132.	2.0	15
45	Initial soil community drives heathland fungal community trajectory over multiple years through altered plant-soil interactions. <i>New Phytologist</i> , 2020, 225, 2140-2151.	7.3	15
46	Recovery from acidification in aquatic mesocosms after reducing ammonium and sulphate deposition. <i>Aquatic Botany</i> , 1997, 56, 119-130.	1.6	14
47	Repression of potential nitrification activities by matgrass sward species. <i>Plant and Soil</i> , 2010, 337, 435-445.	3.7	14
48	Catchment Liming to Restore Degraded, Acidified Heathlands and Moorland Pools. <i>Restoration Ecology</i> , 2005, 13, 302-311.	2.9	13
49	Factors Affecting Nitrogen Deposition Impacts on Biodiversity: An Overview. , 2014, , 127-138.		11
50	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
51	Grassland species composition and biogeochemistry in 153 sites along environmental gradients in Europe. <i>Ecology</i> , 2011, 92, 1544-1544.	3.2	9
52	Barriers to restoration: Soil acidity and phosphorus limitation constrain recovery of heathland plant communities after sod cutting. <i>Applied Vegetation Science</i> , 2020, 23, 94-106.	1.9	9
53	Differential Effects of Oxidised and Reduced Nitrogen on Vegetation and Soil Chemistry of Species-Rich Acidic Grasslands. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	8
54	Effects and Empirical Critical Loads of Nitrogen for Europe. <i>Environmental Pollution</i> , 2015, , 85-127.	0.4	8

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55	Critical Levels for Ammonia. , 2009, , 375-382.		7
56	Effects of Reduced and Oxidised Nitrogen on Rich-Fen Mosses: a 4-Year Field Experiment. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	5
57	Ecological effects of atmospheric deposition on non-forest ecosystems in Western Europe. Studies in Environmental Science, 1995, 64, 279-292.	0.0	4
58	ALUMINIUM TOXICITY AND TOLERANCE IN THREE HEATHLAND SPECIES. Water, Air, and Soil Pollution, 1997, 98, 229-239.	2.4	4
59	Converting agricultural lands into heathlands: the relevance of soil processes. , 2021, , 357-372.		3
60	Biodiversity of Acid Grasslands in the Atlantic Regions of Europe: The Impact of Nitrogen Deposition. , 2014, , 243-250.		3
61	Effects and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. Environmental Pollution, 2015, , 129-169.	0.4	3
62	Assessing the Impacts of Nitrogen Deposition on Plant Species Richness in Europe. Environmental Pollution, 2015, , 573-586.	0.4	2
63	Geochemical Indicators for Use in the Computation of Critical Loads and Dynamic Risk Assessments. Environmental Pollution, 2015, , 15-58.	0.4	2
64	Soil fauna development during heathland restoration from arable land: Role of soil modification and material transplant. Ecological Engineering, 2022, 176, 106531.	3.6	2
65	Ecological Dynamics II: The Influences of Vertebrate Herbivory on Ecological Dynamics in Wetland Ecosystems. , 0, , 304-325.		0