

# Elisabeth S Bakker

## List of Publications by Citations

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97  
papers

3,743  
citations

32  
h-index

59  
g-index

103  
ext. papers

4,541  
ext. citations

4.3  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
97	Herbivore impact on grassland plant diversity depends on habitat productivity and herbivore size. <i>Ecology Letters</i> , <b>2006</b> , 9, 780-8	10	326
96	Global nutrient transport in a world of giants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 868-73	11.5	215
95	Combining paleo-data and modern enclosure experiments to assess the impact of megafauna extinctions on woody vegetation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 847-55	11.5	192
94	Shifting Mosaics in Grazed Woodlands Driven by the Alternation of Plant Facilitation and Competition. <i>Plant Biology</i> , <b>1999</b> , 1, 127-137	3.7	170
93	Management and control methods of invasive alien freshwater aquatic plants: A review. <i>Aquatic Botany</i> , <b>2017</b> , 136, 112-137	1.8	151
92	Ecological anachronisms in the recruitment of temperate light-demanding tree species in wooded pastures. <i>Journal of Applied Ecology</i> , <b>2004</b> , 41, 571-582	5.8	136
91	Soil seed bank composition along a gradient from dry alvar grassland to Juniperus shrubland. <i>Journal of Vegetation Science</i> , <b>1996</b> , 7, 165-176	3.1	135
90	Herbivory on freshwater and marine macrophytes: A review and perspective. <i>Aquatic Botany</i> , <b>2016</b> , 135, 18-36	1.8	131
89	Impact of herbivores on nitrogen cycling: contrasting effects of small and large species. <i>Oecologia</i> , <b>2004</b> , 138, 91-101	2.9	119
88	Restoring macrophyte diversity in shallow temperate lakes: biotic versus abiotic constraints. <i>Hydrobiologia</i> , <b>2013</b> , 710, 23-37	2.4	116
87	Impact of different-sized herbivores on recruitment opportunities for subordinate herbs in grasslands. <i>Journal of Vegetation Science</i> , <b>2003</b> , 14, 465-474	3.1	91
86	Experimental manipulation of predation risk and food quality: effect on grazing behaviour in a central-place foraging herbivore. <i>Oecologia</i> , <b>2005</b> , 146, 157-67	2.9	81
85	Assessing the role of large herbivores in the structuring and functioning of freshwater and marine angiosperm ecosystems. <i>Ecography</i> , <b>2016</b> , 39, 162-179	6.5	78
84	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1925-1932	12.3	77
83	An integrated perspective to explain nitrogen mineralization in grazed ecosystems. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2013</b> , 15, 32-44	3	72
82	Effect of macrophyte community composition and nutrient enrichment on plant biomass and algal blooms. <i>Basic and Applied Ecology</i> , <b>2010</b> , 11, 432-439	3.2	70
81	Plants in aquatic ecosystems: current trends and future directions. <i>Hydrobiologia</i> , <b>2018</b> , 812, 1-11	2.4	62

80	Response of Submerged Macrophyte Communities to External and Internal Restoration Measures in North Temperate Shallow Lakes. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 194	6.2	58
79	Herbivory in omnivorous fishes: effect of plant secondary metabolites and prey stoichiometry. <i>Freshwater Biology</i> , <b>2011</b> , 56, 1783-1797	3.1	55
78	Impact of water-level fluctuations on cyanobacterial blooms: options for management. <i>Aquatic Ecology</i> , <b>2016</b> , 50, 485-498	1.9	49
77	Effects of nutrient additions and macrophyte composition on invertebrate community assembly and diversity in experimental ponds. <i>Basic and Applied Ecology</i> , <b>2011</b> , 12, 466-475	3.2	44
76	Mowing Submerged Macrophytes in Shallow Lakes with Alternative Stable States: Battling the Good Guys?. <i>Environmental Management</i> , <b>2017</b> , 59, 619-634	3.1	43
75	Hydrology, shore morphology and species traits affect seed dispersal, germination and community assembly in shoreline plant communities. <i>Journal of Ecology</i> , <b>2014</b> , 102, 998-1007	6	39
74	Contrasting effects of large herbivore grazing on smaller herbivores. <i>Basic and Applied Ecology</i> , <b>2009</b> , 10, 141-150	3.2	39
73	Windows of opportunity for germination of riparian species after restoring water level fluctuations: a field experiment with controlled seed banks. <i>Journal of Applied Ecology</i> , <b>2014</b> , 51, 1006-1014	5.8	37
72	Cross-site comparison of herbivore impact on nitrogen availability in grasslands: the role of plant nitrogen concentration. <i>Oikos</i> , <b>2009</b> , 118, 1613-1622	4	37
71	Synergy between shading and herbivory triggers macrophyte loss and regime shifts in aquatic systems. <i>Oikos</i> , <b>2016</b> , 125, 1489-1495	4	37
70	Grazing-induced changes in plant-soil feedback alter plant biomass allocation. <i>Oikos</i> , <b>2014</b> , 123, 800-806	4	36
69	The Stoichiometry of Nutrient Release by Terrestrial Herbivores and Its Ecosystem Consequences. <i>Frontiers in Earth Science</i> , <b>2017</b> , 5,	3.5	36
68	Lake restoration by in-lake iron addition: a synopsis of iron impact on aquatic organisms and shallow lake ecosystems. <i>Aquatic Ecology</i> , <b>2016</b> , 50, 121-135	1.9	35
67	Trophic rewilding: impact on ecosystems under global change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	34
66	Fighting internal phosphorus loading: An evaluation of the large scale application of gradual Fe-addition to a shallow peat lake. <i>Ecological Engineering</i> , <b>2015</b> , 83, 78-89	3.9	33
65	Mass development of monospecific submerged macrophyte vegetation after the restoration of shallow lakes: Roles of light, sediment nutrient levels, and propagule density. <i>Aquatic Botany</i> , <b>2017</b> , 141, 29-38	1.8	32
64	Native and non-native plants provide similar refuge to invertebrate prey, but less than artificial plants. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124455	3.7	29
63	Invasive crayfish threaten the development of submerged macrophytes in lake restoration. <i>PLoS ONE</i> , <b>2013</b> , 8, e78579	3.7	28

62	Effects of Rising Temperature on the Growth, Stoichiometry, and Palatability of Aquatic Plants. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1947	6.2	27
61	Impact of Temperature and Nutrients on Carbon: Nutrient Tissue Stoichiometry of Submerged Aquatic Plants: An Experiment and Meta-Analysis. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 655	6.2	27
60	Effects of contrasting omnivorous fish on submerged macrophyte biomass in temperate lakes: a mesocosm experiment. <i>Freshwater Biology</i> , <b>2012</b> , 57, 1360-1372	3.1	26
59	Large herbivores: missing partners of western European light-demanding tree and shrub species? 203-231		26
58	Plant traits and plant biogeography control the biotic resistance provided by generalist herbivores. <i>Functional Ecology</i> , <b>2017</b> , 31, 1184-1192	5.6	25
57	Herbivore exclusion promotes a more stochastic plant community assembly in a natural grassland. <i>Ecology</i> , <b>2017</b> , 98, 961-970	4.6	25
56	Finding the harvesting frequency to maximize nutrient removal in a constructed wetland dominated by submerged aquatic plants. <i>Ecological Engineering</i> , <b>2017</b> , 106, 423-430	3.9	24
55	Success of lake restoration depends on spatial aspects of nutrient loading and hydrology. <i>Science of the Total Environment</i> , <b>2019</b> , 679, 248-259	10.2	24
54	The effect of temperature on herbivory by the omnivorous ectotherm snail <i>Lymnaea stagnalis</i> . <i>Hydrobiologia</i> , <b>2018</b> , 812, 147-155	2.4	24
53	Aquatic herbivores facilitate the emission of methane from wetlands. <i>Ecology</i> , <b>2011</b> , 92, 1166-73	4.6	24
52	Differences in tolerance of pondweeds and charophytes to vertebrate herbivores in a shallow Baltic estuary. <i>Aquatic Botany</i> , <b>2010</b> , 93, 123-128	1.8	24
51	Iron addition as a shallow lake restoration measure: impacts on charophyte growth. <i>Hydrobiologia</i> , <b>2013</b> , 710, 241-251	2.4	23
50	Experimental evidence for enhanced top-down control of freshwater macrophytes with nutrient enrichment. <i>Oecologia</i> , <b>2014</b> , 176, 825-36	2.9	23
49	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. <i>Global Change Biology</i> , <b>2020</b> , 26, 2060	11.4	22
48	Mechanisms of Invasion Resistance of Aquatic Plant Communities. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 134	6.2	22
47	Iron addition as a measure to restore water quality: Implications for macrophyte growth. <i>Aquatic Botany</i> , <b>2014</b> , 116, 44-52	1.8	22
46	Testing the stress gradient hypothesis in herbivore communities facilitation peaks at intermediate nutrient levels. <i>Ecology</i> , <b>2013</b> , 94, 1776-84	4.6	22
45	Insect herbivory on native and exotic aquatic plants: phosphorus and nitrogen drive insect growth and nutrient release. <i>Hydrobiologia</i> , <b>2016</b> , 778, 209-220	2.4	21

44	Effects of warming on <i>Potamogeton crispus</i> growth and tissue stoichiometry in the growing season. <i>Aquatic Botany</i> , <b>2016</b> , 128, 13-17	1.8	20
43	More salt, please: global patterns, responses and impacts of foliar sodium in grasslands. <i>Ecology Letters</i> , <b>2019</b> , 22, 1136-1144	10	20
42	The role of plant secondary metabolites in freshwater macrophyte-herbivore interactions	154-169	20
41	The good, the bad and the plenty: interactive effects of food quality and quantity on the growth of different <i>Daphnia</i> species. <i>PLoS ONE</i> , <b>2012</b> , 7, e42966	3.7	19
40	Effects of cattle and rabbit grazing on clonal expansion of spiny shrubs in wood-pastures. <i>Basic and Applied Ecology</i> , <b>2010</b> , 11, 685-692	3.2	19
39	Growth strategy, phylogeny and stoichiometry determine the allelopathic potential of native and non-native plants. <i>Oikos</i> , <b>2017</b> , 126, 1770-1779	4	18
38	Warming enhances sedimentation and decomposition of organic carbon in shallow macrophyte-dominated systems with zero net effect on carbon burial. <i>Global Change Biology</i> , <b>2018</b> , 24, 5231-5242	11.4	18
37	Aquatic grazers reduce the establishment and growth of riparian plants along an environmental gradient. <i>Freshwater Biology</i> , <b>2013</b> , 58, 1794-1803	3.1	17
36	The impact of bird herbivory on macrophytes and the resilience of the clear-water state in shallow lakes: a model study. <i>Hydrobiologia</i> , <b>2016</b> , 777, 197-207	2.4	16
35	Herbivores Enforce Sharp Boundaries Between Terrestrial and Aquatic Ecosystems. <i>Ecosystems</i> , <b>2014</b> , 17, 1426-1438	3.9	15
34	Invasive species in inland waters: from early detection to innovative management approaches. <i>Aquatic Invasions</i> , <b>2017</b> , 12, 269-273	2.9	15
33	Flooding tolerance and horizontal expansion of wetland plants: Facilitation by floating mats?. <i>Aquatic Botany</i> , <b>2014</b> , 113, 83-89	1.8	14
32	Periphyton density is similar on native and non-native plant species. <i>Freshwater Biology</i> , <b>2017</b> , 62, 906-915	3.1	13
31	Classifying nuisance submerged vegetation depending on ecosystem services. <i>Limnology</i> , <b>2019</b> , 20, 55-68	6.7	13
30	Seagrass coastal protection services reduced by invasive species expansion and megaherbivore grazing. <i>Journal of Ecology</i> , <b>2020</b> , 108, 2025-2037	6	11
29	Climate Extremes, Rewilding, and the Role of Microhabitats. <i>One Earth</i> , <b>2020</b> , 2, 506-509	8.1	11
28	Interactive Effects of Rising Temperature and Nutrient Enrichment on Aquatic Plant Growth, Stoichiometry, and Palatability. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 58	6.2	11
27	Locomotion during digestion changes current estimates of seed dispersal kernels by fish. <i>Functional Ecology</i> , <b>2016</b> , 30, 215-225	5.6	11

26	High Grazing Pressure of Geese Threatens Conservation and Restoration of Reed Belts. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1649	6.2	11
25	Ectothermic omnivores increase herbivory in response to rising temperature. <i>Oikos</i> , <b>2020</b> , 129, 1028-1039	3.7	10
24	Frugivory underpins the nitrogen cycle. <i>Functional Ecology</i> , <b>2021</b> , 35, 357-368	5.6	10
23	Managing Successional Stage Heterogeneity to Maximize Landscape-Wide Biodiversity of Aquatic Vegetation in Ditch Networks. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1013	6.2	9
22	Aquatic omnivores shift their trophic position towards increased plant consumption as plant stoichiometry becomes more similar to their body stoichiometry. <i>PLoS ONE</i> , <b>2018</b> , 13, e0204116	3.7	9
21	Impact of different-sized herbivores on recruitment opportunities for subordinate herbs in grasslands <b>2003</b> , 14, 465		8
20	Aquatic herbivores facilitate the emission of methane from wetlands <b>2011</b> , 92, 1166		8
19	On the move: New insights on the ecology and management of native and alien macrophytes. <i>Aquatic Botany</i> , <b>2020</b> , 162, 103190	1.8	6
18	Plant functional diversity and nutrient availability can improve restoration of floating fens via facilitation, complementarity and selection effects. <i>Journal of Applied Ecology</i> , <b>2019</b> , 56, 235-245	5.8	6
17	Direct and indirect effects of native plants and herbivores on biotic resistance to alien aquatic plant invasions. <i>Journal of Ecology</i> , <b>2020</b> , 108, 1487-1496	6	5
16	Potential for biotic resistance from herbivores to tropical and subtropical plant invasions in aquatic ecosystems. <i>Aquatic Invasions</i> , <b>2017</b> , 12, 343-353	2.9	5
15	Combined effects of shading and clipping on the invasive alien macrophyte <i>Elodea nuttallii</i> . <i>Aquatic Botany</i> , <b>2019</b> , 154, 24-27	1.8	4
14	SPATIAL HETEROGENEITY, NOT VISITATION BIAS, DOMINATES VARIATION IN HERBIVORY: REPLY. <i>Ecology</i> , <b>2004</b> , 85, 2906-2910	4.6	3
13	Species identity and diversity effects on invasion resistance of tropical freshwater plant communities. <i>Scientific Reports</i> , <b>2020</b> , 10, 5626	4.9	2
12	A Device to Study the Behavioral Responses of Zooplankton to Food Quality and Quantity. <i>Journal of Insect Behavior</i> , <b>2013</b> , 26, 453-465	1.1	2
11	Nature development in degraded landscapes: How pioneer bioturbators and water level control soil subsidence, nutrient chemistry and greenhouse gas emission. <i>Pedobiologia</i> , <b>2021</b> , 87-88, 150745	1.7	2
10	Herbivore phenology can predict response to changes in plant quality by livestock grazing. <i>Oikos</i> , <b>2020</b> , 129, 811-819	4	1
9	Herbivore exclusion and active planting stimulate reed marsh development on a newly constructed archipelago. <i>Ecological Engineering</i> , <b>2022</b> , 175, 106474	3.9	1

8	Impacts of sediment resuspension on phytoplankton biomass production and trophic transfer: Implications for shallow lake restoration. <i>Science of the Total Environment</i> , <b>2021</b> , 808, 152156	10.2	1
7	Temperature affects carbon and nitrogen stable isotopic signatures of aquatic plants. <i>Aquatic Sciences</i> , <b>2021</b> , 83, 1	2.5	1
6	Perspectives on a Way Forward to Implementation of Precision Medicine in Patients With Diabetic Kidney Disease; Results of a Stakeholder Consensus-Building Meeting. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 662642	5.6	1
5	Host location success of root-feeding nematodes in patches that differ in size and quality: A belowground release-recapture experiment. <i>Basic and Applied Ecology</i> , <b>2012</b> , 13, 221-231	3.2	0
4	Fish grazing enhanced by nutrient enrichment may limit invasive seagrass expansion. <i>Aquatic Botany</i> , <b>2022</b> , 176, 103464	1.8	0
3	Enhancing ecological integrity while preserving ecosystem services: Constructing soft-sediment islands in a shallow lake. <i>Ecological Solutions and Evidence</i> , <b>2021</b> , 2, e12098	2.1	0
2	Long-term cross-scale comparison of grazing and mowing on plant diversity and community composition in a salt-marsh system. <i>Journal of Ecology</i> , <b>2021</b> , 109, 3737	6	0
1	Herbivore size matters for productivity-richness relationships in African savannas: Commentary on Burkepile et al. (2017). <i>Journal of Ecology</i> , <b>2017</b> , 105, 687-689	6	