

Sabine Hilt

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,464
citations

136950

32
h-index

110387

64
g-index

80
all docs

80
docs citations

80
times ranked

4510
citing authors

#	ARTICLE	IF	CITATIONS
1	Lake responses to reduced nutrient loading - an analysis of contemporary long-term data from 35 case studies. <i>Freshwater Biology</i> , 2005, 50, 1747-1771.	2.4	1,080
2	Can allelopathically active submerged macrophytes stabilise clear-water states in shallow lakes?. <i>Basic and Applied Ecology</i> , 2008, 9, 422-432.	2.7	282
3	Restoration of submerged vegetation in shallow eutrophic lakes – A guideline and state of the art in Germany. <i>Limnologica</i> , 2006, 36, 155-171.	1.5	233
4	Herbivory on freshwater and marine macrophytes: A review and perspective. <i>Aquatic Botany</i> , 2016, 135, 18-36.	1.6	193
5	Cross continental increase in methane ebullition under climate change. <i>Nature Communications</i> , 2017, 8, 1682.	12.8	146
6	Translating Regime Shifts in Shallow Lakes into Changes in Ecosystem Functions and Services. <i>BioScience</i> , 2017, 67, 928-936.	4.9	144
7	Boom&bust dynamics in biological invasions: towards an improved application of the concept. <i>Ecology Letters</i> , 2017, 20, 1337-1350.	6.4	143
8	Shifting states, shifting services: Linking regime shifts to changes in ecosystem services of shallow lakes. <i>Freshwater Biology</i> , 2021, 66, 1-12.	2.4	123
9	Facilitation of clear-water conditions in shallow lakes by macrophytes: differences between charophyte and angiosperm dominance. <i>Hydrobiologia</i> , 2014, 737, 99-110.	2.0	100
10	Response of Submerged Macrophyte Communities to External and Internal Restoration Measures in North Temperate Shallow Lakes. <i>Frontiers in Plant Science</i> , 2018, 9, 194.	3.6	97
11	Allelopathic inhibition of epiphytes by submerged macrophytes. <i>Aquatic Botany</i> , 2006, 85, 252-256.	1.6	83
12	Abrupt regime shifts in space and time along rivers and connected lake systems. <i>Oikos</i> , 2011, 120, 766-775.	2.7	79
13	IN SITU ALLELOPATHIC POTENTIAL OF MYRIOPHYLLUM VERTICILLATUM (HALORAGACEAE) AGAINST SELECTED PHYTOPLANKTON SPECIES 1. <i>Journal of Phycology</i> , 2006, 42, 1189-1198.	2.3	75
14	Impact of water-level fluctuations on cyanobacterial blooms: options for management. <i>Aquatic Ecology</i> , 2016, 50, 485-498.	1.5	72
15	Allelopathic effects of <i>Microcystis aeruginosa</i> on green algae and a diatom: Evidence from exudates addition and co-culturing. <i>Harmful Algae</i> , 2017, 61, 56-62.	4.8	72
16	Regulation of submersed macrophyte biomass in a temperate lowland river: Interactions between shading by bank vegetation, epiphyton and water turbidity. <i>Aquatic Botany</i> , 2010, 92, 129-136.	1.6	69
17	A regime shift from macrophyte to phytoplankton dominance enhances carbon burial in a shallow, eutrophic lake. <i>Ecosphere</i> , 2013, 4, 1-17.	2.2	68
18	Bacterial community composition associated with freshwater algae: species specificity vs. dependency on environmental conditions and source community. <i>FEMS Microbiology Ecology</i> , 2013, 83, 650-663.	2.7	68

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19	Warming advances top-down control and reduces producer biomass in a freshwater plankton community. <i>Ecosphere</i> , 2017, 8, e01651.	2.2	63
20	Clear, crashing, turbid and back – long-term changes in macrophyte assemblages in a shallow lake. <i>Freshwater Biology</i> , 2013, 58, 2027-2036.	2.4	62
21	Do macrophytes support harmful cyanobacteria? Interactions with a green alga reverse the inhibiting effects of macrophyte allelochemicals on <i>Microcystis aeruginosa</i> . <i>Harmful Algae</i> , 2012, 19, 76-84.	4.8	61
22	Can Submerged Macrophytes Influence Turbidity and Trophic State in Deep Lakes? Suggestions from a Case Study. <i>Journal of Environmental Quality</i> , 2010, 39, 725-733.	2.0	54
23	Cyanobacteria can allelopathically inhibit submerged macrophytes: Effects of <i>Microcystis aeruginosa</i> extracts and exudates on <i>Potamogeton malaianus</i> . <i>Aquatic Botany</i> , 2013, 109, 1-7.	1.6	54
24	Synergy between shading and herbivory triggers macrophyte loss and regime shifts in aquatic systems. <i>Oikos</i> , 2016, 125, 1489-1495.	2.7	52
25	Ecosystem-level studies of terrestrial carbon reveal contrasting bacterial metabolism in different aquatic habitats. <i>Ecology</i> , 2013, 94, 2754-2766.	3.2	48
26	Submerged Macrophyte Responses to Reduced Phosphorus Concentrations in Two Peri-Urban Lakes. <i>Restoration Ecology</i> , 2010, 18, 452-461.	2.9	45
27	Extending one-dimensional models for deep lakes to simulate the impact of submerged macrophytes on water quality. <i>Environmental Modelling and Software</i> , 2014, 61, 410-423.	4.5	45
28	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> , 2018, 24, 5231-5242.	9.5	43
29	Littoral Slope, Water Depth and Alternative Response Strategies to Light Attenuation Shape the Distribution of Submerged Macrophytes in a Mesotrophic Lake. <i>Frontiers in Plant Science</i> , 2019, 10, 169.	3.6	42
30	Blue Waters, Green Bottoms: Benthic Filamentous Algal Blooms Are an Emerging Threat to Clear Lakes Worldwide. <i>BioScience</i> , 2021, 71, 1011-1027.	4.9	42
31	Feedback between climate change and eutrophication: revisiting the allied attack concept and how to strike back. <i>Inland Waters</i> , 2022, 12, 187-204.	2.2	41
32	Effects of water temperature on summer periphyton biomass in shallow lakes: a pan-European mesocosm experiment. <i>Aquatic Sciences</i> , 2015, 77, 499-510.	1.5	34
33	The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 601-617.	6.5	32
34	Large biomass of small feeders: ciliates may dominate herbivory in eutrophic lakes. <i>Journal of Plankton Research</i> , 2016, 38, 2-15.	1.8	31
35	Biosynthetic hydrogen isotopic fractionation factors during lipid synthesis in submerged aquatic macrophytes: Effect of groundwater discharge and salinity. <i>Organic Geochemistry</i> , 2017, 113, 10-16.	1.8	31
36	Empirical correspondence between trophic transfer efficiency in freshwater food webs and the slope of their size spectra. <i>Ecology</i> , 2018, 99, 1463-1472.	3.2	31

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37	Primary production in nutrient-rich kettle holes and consequences for nutrient and carbon cycling. <i>Hydrobiologia</i> , 2018, 806, 77-93.	2.0	30
38	Biological indicators track differential responses of pelagic and littoral areas to nutrient load reductions in German lakes. <i>Ecological Indicators</i> , 2016, 61, 905-910.	6.3	24
39	Potential Impacts of Induced Bank Filtration on Surface Water Quality: A Conceptual Framework for Future Research. <i>Water (Switzerland)</i> , 2018, 10, 1240.	2.7	24
40	Convective mixing and high littoral production established systematic errors in the diel oxygen curves of a shallow, eutrophic lake. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 429-435.	2.0	23
41	Benthic carbon is inefficiently transferred in the food webs of two eutrophic shallow lakes. <i>Freshwater Biology</i> , 2017, 62, 1693-1706.	2.4	22
42	Disentangling the direct and indirect effects of agricultural runoff on freshwater ecosystems subject to global warming: A microcosm study. <i>Water Research</i> , 2021, 190, 116713.	11.3	20
43	Sensitivity of the Green Alga <i>Pediastrum duplex</i> Meyen to Allelochemicals Is Strain-Specific and Not Related to Co-Occurrence with Allelopathic Macrophytes. <i>PLoS ONE</i> , 2013, 8, e78463.	2.5	20
44	Potential role of submerged macrophytes for oxic methane production in aquatic ecosystems. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	20
45	Flow cytometry as a diagnostic tool for the effects of polyphenolic allelochemicals on phytoplankton. <i>Aquatic Botany</i> , 2013, 104, 5-14.	1.6	19
46	Enhanced Input of Terrestrial Particulate Organic Matter Reduces the Resilience of the Clear-Water State of Shallow Lakes: A Model Study. <i>Ecosystems</i> , 2014, 17, 616-626.	3.4	17
47	Effects of Light and Autochthonous Carbon Additions on Microbial Turnover of Allochthonous Organic Carbon and Community Composition. <i>Microbial Ecology</i> , 2015, 69, 361-371.	2.8	17
48	Feeding Aquatic Ecosystems: Whole-Lake Experimental Addition of Angler's Ground Bait Strongly Affects Omnivorous Fish Despite Low Contribution to Lake Carbon Budget. <i>Ecosystems</i> , 2019, 22, 346-362.	3.4	17
49	Mutual Facilitation Among Invading Nuttall's Waterweed and Quagga Mussels. <i>Frontiers in Plant Science</i> , 2019, 10, 789.	3.6	16
50	On the move: New insights on the ecology and management of native and alien macrophytes. <i>Aquatic Botany</i> , 2020, 162, 103190.	1.6	16
51	Shallow lakes at risk: Nutrient enrichment enhances top-down control of macrophytes by invasive herbivorous snails. <i>Freshwater Biology</i> , 2021, 66, 436-446.	2.4	16
52	COMPARISON OF METHODS TO DETECT ALLELOPATHIC EFFECTS OF SUBMERGED MACROPHYTES ON GREEN ALGAE. <i>Journal of Phycology</i> , 2012, 48, 40-44.	2.3	15
53	Multiple-stressor exposure of aquatic food webs: Nitrate and warming modulate the effect of pesticides. <i>Water Research</i> , 2022, 216, 118325.	11.3	14
54	TRANSFORMATION AND ALLELOPATHY OF NATURAL DISSOLVED ORGANIC CARBON AND TANNIC ACID ARE AFFECTED BY SOLAR RADIATION AND BACTERIA. <i>Journal of Phycology</i> , 2012, 48, 355-364.	2.3	13

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55	Recovery limitation of endangered <i>Ottelia acuminata</i> by allelopathic interaction with cyanobacteria. <i>Aquatic Ecology</i> , 2015, 49, 333-342.	1.5	13
56	DNA metabarcoding of unfractionated water samples relates phyto- and zoo- and bacterioplankton dynamics and reveals a single-taxon bacterial bloom. <i>Environmental Microbiology Reports</i> , 2017, 9, 383-388.	2.4	13
57	The effect of a shift from macrophyte to phytoplankton dominance on phosphorus forms and burial in the sediments of a shallow hard-water lake. <i>Biogeochemistry</i> , 2019, 143, 371-385.	3.5	13
58	Stimulation of epiphyton growth by lacustrine groundwater discharge to an oligo-mesotrophic hard-water lake. <i>Freshwater Science</i> , 2017, 36, 555-570.	1.8	12
59	Warming alters juvenile carp effects on macrophytes resulting in a shift to turbid conditions in freshwater mesocosms. <i>Journal of Applied Ecology</i> , 2022, 59, 165-175.	4.0	12
60	Warming lowers critical thresholds for multiple stressor-induced shifts between aquatic primary producers. <i>Science of the Total Environment</i> , 2022, 838, 156511.	8.0	12
61	Combined effects of shading and clipping on the invasive alien macrophyte <i>Elodea nuttallii</i> . <i>Aquatic Botany</i> , 2019, 154, 24-27.	1.6	11
62	Modelling induced bank filtration effects on freshwater ecosystems to ensure sustainable drinking water production. <i>Water Research</i> , 2019, 157, 19-29.	11.3	10
63	Groundwater discharge gives periphyton a competitive advantage over macrophytes. <i>Aquatic Botany</i> , 2019, 154, 72-80.	1.6	10
64	Experimental comparison of periphyton removal by chironomid larvae and <i>Daphnia magna</i> . <i>Inland Waters</i> , 2015, 5, 81-88.	2.2	9
65	Impact of trematode infections on periphyton grazing rates of freshwater snails. <i>Parasitology Research</i> , 2018, 117, 3547-3555.	1.6	9
66	Assessing the Utility of Hydrogen, Carbon and Nitrogen Stable Isotopes in Estimating Consumer Allochthony in Two Shallow Eutrophic Lakes. <i>PLoS ONE</i> , 2016, 11, e0155562.	2.5	8
67	Changes in submerged macrophyte colonization in shallow areas of an oligo-mesotrophic lake and the potential role of groundwater. <i>Limnologica</i> , 2018, 68, 168-176.	1.5	7
68	Warming advances virus population dynamics in a temperate freshwater plankton community. <i>Limnology and Oceanography Letters</i> , 2020, 5, 295-304.	3.9	7
69	Long-term trends and seasonal variation in host density, temperature, and nutrients differentially affect chytrid fungi parasitising lake phytoplankton. <i>Freshwater Biology</i> , 2022, 67, 1532-1542.	2.4	7
70	Structural changes of the microplankton community following a pulse of inorganic nitrogen in a eutrophic river. <i>Limnology and Oceanography</i> , 2020, 65, S264.	3.1	5
71	Incomplete recovery of a shallow lake from a natural browning event. <i>Freshwater Biology</i> , 2021, 66, 1089-1100.	2.4	5
72	Filamentous Algae Blooms in a Large, Clear-Water Lake: Potential Drivers and Reduced Benthic Primary Production. <i>Water (Switzerland)</i> , 2022, 14, 2136.	2.7	5

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73	Macrophytes. , 2022, , 14-25.		3
74	Predator group composition indirectly influences food web dynamics through predator growth rates. American Naturalist, 2022, 199, 330-344.	2.1	3
75	Evaluating Multiple Stressor Effects on Benthicâ€“Pelagic Freshwater Communities in Systems of Different Complexities: Challenges in Upscaling. Water (Switzerland), 2022, 14, 581.	2.7	3
76	Phosphorus Availability and Growth of Benthic Primary Producers in Littoral Lake Sediments: Are Differences Linked to Induced Bank Filtration?. Water (Switzerland), 2019, 11, 1111.	2.7	2
77	Trophic Transfer Efficiency in Lakes. Ecosystems, 0, , .	3.4	2
78	Biological Invasions: Case Studies. , 2021, , .		0