

Alo Laas

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,306
citations

304743

22
h-index

243625

44
g-index

48
all docs

48
docs citations

48
times ranked

3125
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-continental importance of CH ₄ emissions from dry inland-waters. <i>Science of the Total Environment</i> , 2022, 814, 151925.	8.0	13
2	The relevance of pelagic calcification in the global carbon budget of lakes and reservoirs. , 2022, 41, 17-25.		10
3	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. <i>Geoscientific Model Development</i> , 2022, 15, 4597-4623.	3.6	37
4	Summer greenhouse gas fluxes in different types of hemiboreal lakes. <i>Science of the Total Environment</i> , 2022, 843, 156732.	8.0	2
5	A New Thermal Categorization of Ice-Covered Lakes. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091374.	4.0	31
6	Eutrophication and Geochemistry Drive Pelagic Calcite Precipitation in Lakes. <i>Water (Switzerland)</i> , 2021, 13, 597.	2.7	5
7	Earlier winter/spring runoff and snowmelt during warmer winters lead to lower summer chlorophyll <i>a</i> in north temperate lakes. <i>Global Change Biology</i> , 2021, 27, 4615-4629.	9.5	22
8	Stratification strength and light climate explain variation in chlorophyll <i>a</i> at the continental scale in a European multilake survey in a heatwave summer. <i>Limnology and Oceanography</i> , 2021, 66, 4314-4333.	3.1	19
9	Hidden treasures: Human-made aquatic ecosystems harbour unexplored opportunities. <i>Ambio</i> , 2020, 49, 531-540.	5.5	28
10	Atmospheric stilling offsets the benefits from reduced nutrient loading in a large shallow lake. <i>Limnology and Oceanography</i> , 2020, 65, 717-731.	3.1	27
11	How warming and other stressors affect zooplankton abundance, biomass and community composition in shallow eutrophic lakes. <i>Climatic Change</i> , 2020, 159, 565-580.	3.6	18
12	Major Effects of Alkalinity on the Relationship Between Metabolism and Dissolved Inorganic Carbon Dynamics in Lakes. <i>Ecosystems</i> , 2020, 23, 1566-1580.	3.4	19
13	Paired O ₂ and CO ₂ measurements provide emergent insights into aquatic ecosystem function. <i>Limnology and Oceanography Letters</i> , 2020, 5, 287-294.	3.9	51
14	Global CO ₂ emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020, 11, 2126.	12.8	73
15	Increased winter drownings in ice-covered regions with warmer winters. <i>PLoS ONE</i> , 2020, 15, e0241222.	2.5	21
16	Northern Hemisphere Atmospheric Stilling Accelerates Lake Thermal Responses to a Warming World. <i>Geophysical Research Letters</i> , 2019, 46, 11983-11992.	4.0	65
17	How light conditions influence theoretical pelagic to benthic primary production ratios in small lakes. <i>Lakes and Reservoirs: Research and Management</i> , 2019, 24, 18-23.	0.9	0
18	Drainage Ratio as a Strong Predictor of Allochthonous Carbon Budget in Hemiboreal Lakes. <i>Ecosystems</i> , 2019, 22, 805-817.	3.4	8

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19	Wind and trophic status explain within and among-lake variability of algal biomass. <i>Limnology and Oceanography Letters</i> , 2018, 3, 409-418.	3.9	24
20	Changes in particulate organic matter passing through a large shallow lowland lake. <i>Proceedings of the Estonian Academy of Sciences</i> , 2018, 67, 93.	1.5	13
21	Geographic and temporal variations in turbulent heat loss from lakes: A global analysis across 45 lakes. <i>Limnology and Oceanography</i> , 2018, 63, 2436-2449.	3.1	47
22	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. <i>Toxins</i> , 2018, 10, 156.	3.4	159
23	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. <i>Scientific Data</i> , 2018, 5, 180226.	5.3	30
24	Delving deeper: Metabolic processes in the metalimnion of stratified lakes. <i>Limnology and Oceanography</i> , 2017, 62, 1288-1306.	3.1	40
25	Atmospheric stilling leads to prolonged thermal stratification in a large shallow polymictic lake. <i>Climatic Change</i> , 2017, 141, 759-773.	3.6	83
26	The NETLAKE Metadatabase-A Tool to Support Automatic Monitoring on Lakes in Europe and Beyond. <i>Limnology and Oceanography Bulletin</i> , 2017, 26, 95-100.	0.4	6
27	Latitude and lake size are important predictors of over-lake atmospheric stability. <i>Geophysical Research Letters</i> , 2017, 44, 8875-8883.	4.0	31
28	First Experiences in Mapping Lake Water Quality Parameters with Sentinel-2 MSI Imagery. <i>Remote Sensing</i> , 2016, 8, 640.	4.0	343
29	Numerical Exploration of the Planktonic to Benthic Primary Production Ratios in Lakes of the Baltic Sea Catchment. <i>Ecosystems</i> , 2016, 19, 1386-1400.	3.4	13
30	Summer depth distribution profiles of dissolved CO ₂ and O ₂ in shallow temperate lakes reveal trophic state and lake type specific differences. <i>Science of the Total Environment</i> , 2016, 566-567, 63-75.	8.0	17
31	Changes in water temperature and chemistry preceding a massive kill of bottom-dwelling fish: an analysis of high-frequency buoy data of shallow Lake Võrtsjärv (Estonia). <i>Inland Waters</i> , 2016, 6, 535-542.	2.2	14
32	An estimation of diel metabolic rates of eight limnological archetypes from Estonia using high-frequency measurements. <i>Inland Waters</i> , 2016, 6, 352-363.	2.2	8
33	Horizontal differences in ecosystem metabolism of a large shallow lake. <i>Journal of Hydrology</i> , 2016, 535, 93-100.	5.4	10
34	Role of a productive lake in carbon sequestration within a calcareous catchment. <i>Science of the Total Environment</i> , 2016, 550, 225-230.	8.0	42
35	Continuous and high-frequency measurements in limnology: history, applications, and future challenges. <i>Environmental Reviews</i> , 2016, 24, 52-62.	4.5	45
36	High-frequency data within a modeling framework: On the benefit of assessing uncertainties of lake metabolism. <i>Ecological Modelling</i> , 2014, 294, 27-35.	2.5	18

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37	From Bacteria to Piscivorous Fish: Estimates of Whole-Lake and Component-Specific Metabolism with an Ecosystem Approach. PLoS ONE, 2014, 9, e101845.	2.5	20
38	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. Limnology and Oceanography, 2013, 58, 849-866.	3.1	195
39	Characteristics of dissolved organic matter in the inflows and in the outflow of Lake Võrtsjärv, Estonia. Journal of Hydrology, 2012, 475, 306-313.	5.4	32
40	Lake size dependency of wind shear and convection as controls on gas exchange. Geophysical Research Letters, 2012, 39, .	4.0	199
41	High-frequency metabolism study in a large and shallow temperate lake reveals seasonal switching between net autotrophy and net heterotrophy. Hydrobiologia, 2012, 694, 57-74.	2.0	72
42	Phosphorus retention as a function of external loading, hydraulic turnover time, area and relative depth in 54 lakes and reservoirs. Hydrobiologia, 2011, 660, 105-115.	2.0	70
43	Reconstructed long-term time series of phytoplankton primary production of a large shallow temperate lake: the basis to assess the carbon balance and its climate sensitivity. Hydrobiologia, 2011, 667, 205-222.	2.0	24
44	Fluxes of carbon and nutrients through the inflows and outflow of Lake Võrtsjärv, Estonia. Estonian Journal of Ecology, 2011, 60, 39.	0.5	14
45	Climate-related changes of phytoplankton seasonality in large shallow Lake Võrtsjärv, Estonia. Aquatic Ecosystem Health and Management, 2010, 13, 154-163.	0.6	20
46	The determination of ecological status in shallow lakes - a tested system (ECOFAME) for implementation of the European Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2003, 13, 507-549.	2.0	266