# Alo Laas

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4694153/publications.pdf

Version: 2024-02-01

| 46 | 2,306 | 304743 | 243625 |
|---|---|---|---|
| papers | citations | 22 | 44 |
| | | h-index | g-index |

| 48 | 48 | 48 | 3125 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | First Experiences in Mapping Lake Water Quality Parameters with Sentinel-2 MSI Imagery. Remote Sensing, 2016, 8, 640. | 4.0 | 343 |
| 2 | The determination of ecological status in shallow lakes - a tested system (ECOFRAME) for implementation of the European Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2003, 13, 507-549. | 2.0 | 266 |
| 3 | Lakeâ€size dependency of wind shear and convection as controls on gas exchange. Geophysical Research Letters, 2012, 39, . | 4.0 | 199 |
| 4 | Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. Limnology and Oceanography, 2013, 58, 849-866. | 3.1 | 195 |
| 5 | Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. Toxins, 2018, 10, 156. | 3.4 | 159 |
| 6 | Atmospheric stilling leads to prolonged thermal stratification in a large shallow polymictic lake. Climatic Change, 2017, 141, 759-773. | 3.6 | 83 |
| 7 | Global CO2 emissions from dry inland waters share common drivers across ecosystems. Nature Communications, 2020, 11, 2126. | 12.8 | 73 |
| 8 | 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 |
| 9 | 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 |
| 10 | Northern Hemisphere Atmospheric Stilling Accelerates Lake Thermal Responses to a Warming World. Geophysical Research Letters, 2019, 46, 11983-11992. | 4.0 | 65 |
| 11 | Paired O<sub>2</sub>â€“CO<sub>2</sub> measurements provide emergent insights into aquatic ecosystem function. Limnology and Oceanography Letters, 2020, 5, 287-294. | 3.9 | 51 |
| 12 | Geographic and temporal variations in turbulent heat loss from lakes: A global analysis across 45 lakes. Limnology and Oceanography, 2018, 63, 2436-2449. | 3.1 | 47 |
| 13 | Continuous and high-frequency measurements in limnology: history, applications, and future challenges. Environmental Reviews, 2016, 24, 52-62. | 4.5 | 45 |
| 14 | Role of a productive lake in carbon sequestration within a calcareous catchment. Science of the Total Environment, 2016, 550, 225-230. | 8.0 | 42 |
| 15 | Delving deeper: Metabolic processes in the metalimnion of stratified lakes. Limnology and Oceanography, 2017, 62, 1288-1306. | 3.1 | 40 |
| 16 | A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. Geoscientific Model Development, 2022, 15, 4597-4623. | 3.6 | 37 |
| 17 | Characteristics of dissolved organic matter in the inflows and in the outflow of Lake VÃµrtsjÃ¤rv, Estonia. Journal of Hydrology, 2012, 475, 306-313. | 5.4 | 32 |
| 18 | Latitude and lake size are important predictors of overâ€lake atmospheric stability. Geophysical Research Letters, 2017, 44, 8875-8883. | 4.0 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A New Thermal Categorization of Iceâ€Covered Lakes. Geophysical Research Letters, 2021, 48, e2020GL091374. | 4.0 | 31 |
| 20 | A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. Scientific Data, 2018, 5, 180226. | 5.3 | 30 |
| 21 | Hidden treasures: Human-made aquatic ecosystems harbour unexplored opportunities. Ambio, 2020, 49, 531-540. | 5.5 | 28 |
| 22 | Atmospheric stilling offsets the benefits from reduced nutrient loading in a large shallow lake. Limnology and Oceanography, 2020, 65, 717-731. | 3.1 | 27 |
| 23 | 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 |
| 24 | Wind and trophic status explain within and amongâ€lake variability of algal biomass. Limnology and Oceanography Letters, 2018, 3, 409-418. | 3.9 | 24 |
| 25 | Earlier winter/spring runoff and snowmelt during warmer winters lead to lower summer chlorophyllâ€a in north temperate lakes. Global Change Biology, 2021, 27, 4615-4629. | 9.5 | 22 |
| 26 | Increased winter drownings in ice-covered regions with warmer winters. PLoS ONE, 2020, 15, e0241222. | 2.5 | 21 |
| 27 | Climate-related changes of phytoplankton seasonality in large shallow Lake VÃµrtsjÃrv, Estonia. Aquatic Ecosystem Health and Management, 2010, 13, 154-163. | 0.6 | 20 |
| 28 | 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 |
| 29 | Major Effects of Alkalinity on the Relationship Between Metabolism and Dissolved Inorganic Carbon Dynamics in Lakes. Ecosystems, 2020, 23, 1566-1580. | 3.4 | 19 |
| 30 | Stratification strength and light climate explain variation in chlorophyll <scp>a</scp> at the continental scale in a European multilake survey in a heatwave summer. Limnology and Oceanography, 2021, 66, 4314-4333. | 3.1 | 19 |
| 31 | High-frequency data within a modeling framework: On the benefit of assessing uncertainties of lake metabolism. Ecological Modelling, 2014, 294, 27-35. | 2.5 | 18 |
| 32 | How warming and other stressors affect zooplankton abundance, biomass and community composition in shallow eutrophic lakes. Climatic Change, 2020, 159, 565-580. | 3.6 | 18 |
| 33 | Summer depth distribution profiles of dissolved CO2 and O2 in shallow temperate lakes reveal trophic state and lake type specific differences. Science of the Total Environment, 2016, 566-567, 63-75. | 8.0 | 17 |
| 34 | Fluxes of carbon and nutrients through the inflows and outflow of Lake VÃµrtsjÃrv, Estonia. Estonian Journal of Ecology, 2011, 60, 39. | 0.5 | 14 |
| 35 | Changes in water temperature and chemistry preceding a massive kill of bottom-dwelling fish: an analysis of high-frequency buoy data of shallow Lake VÃµrtsjÃrv (Estonia). Inland Waters, 2016, 6, 535-542. | 2.2 | 14 |
| 36 | Numerical Exploration of the Planktonic to Benthic Primary Production Ratios in Lakes of the Baltic Sea Catchment. Ecosystems, 2016, 19, 1386-1400. | 3.4 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Changes in particulate organic matter passing through a large shallow lowland lake. Proceedings of the Estonian Academy of Sciences, 2018, 67, 93. | 1.5 | 13 |
| 38 | Cross-continental importance of CH4 emissions from dry inland-waters. Science of the Total Environment, 2022, 814, 151925. | 8.0 | 13 |
| 39 | Horizontal differences in ecosystem metabolism of a large shallow lake. Journal of Hydrology, 2016, 535, 93-100. | 5.4 | 10 |
| 40 | The relevance of pelagic calcification in the global carbon budget of lakes and reservoirs. , 2022, 41, 17-25. | | 10 |
| 41 | An estimation of diel metabolic rates of eight limnological archetypes from Estonia using high-frequency measurements. Inland Waters, 2016, 6, 352-363. | 2.2 | 8 |
| 42 | Drainage Ratio as a Strong Predictor of Allochthonous Carbon Budget in Hemiboreal Lakes. Ecosystems, 2019, 22, 805-817. | 3.4 | 8 |
| 43 | The NETLAKE Metadatabase-A Tool to Support Automatic Monitoring on Lakes in Europe and Beyond. Limnology and Oceanography Bulletin, 2017, 26, 95-100. | 0.4 | 6 |
| 44 | Eutrophication and Geochemistry Drive Pelagic Calcite Precipitation in Lakes. Water (Switzerland), 2021, 13, 597. | 2.7 | 5 |
| 45 | Summer greenhouse gas fluxes in different types of hemiboreal lakes. Science of the Total Environment, 2022, 843, 156732. | 8.0 | 2 |
| 46 | How light conditions influence theoretical pelagic to benthic primary production ratios in small lakes. Lakes and Reservoirs: Research and Management, 2019, 24, 18-23. | 0.9 | 0 |