

Alfred Wuest

List of Publications by Year in descending order

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177
papers

8,721
citations

36303

51
h-index

62596

80
g-index

185
all docs

185
docs citations

185
times ranked

6548
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate of rising methane bubbles in stratified waters: How much methane reaches the atmosphere?. Journal of Geophysical Research, 2006, 111, .	3.3	461
2	SMALL-SCALE HYDRODYNAMICS IN LAKES. Annual Review of Fluid Mechanics, 2003, 35, 373-412.	25.0	458
3	Disrupting biogeochemical cycles - Consequences of damming. , 2002, 64, 55-65.		361
4	Spatial Heterogeneity of Methane Ebullition in a Large Tropical Reservoir. Environmental Science & Technology, 2011, 45, 9866-9873.	10.0	205
5	Mixing Mechanisms in Lakes. , 1995, , 83-138.		201
6	Bubble plume modeling for lake restoration. Water Resources Research, 1992, 28, 3235-3250.	4.2	198
7	Hypolimnetic Oxygen Depletion in Eutrophic Lakes. Environmental Science & Technology, 2012, 46, 9964-9971.	10.0	186
8	Breathing sediments: The control of diffusive transport across the sediment-water interface by periodic boundary-layer turbulence. Limnology and Oceanography, 2003, 48, 2077-2085.	3.1	176
9	Benthic boundary mixing and resuspension induced by internal seiches. Hydrobiologia, 1994, 284, 59-68.	2.0	156
10	CO ₂ exchange between air and water in an Arctic Alaskan and midlatitude Swiss lake: Importance of convective mixing. Journal of Geophysical Research, 2003, 108, .	3.3	153
11	Eutrophication of ancient Lake Ohrid: Global warming amplifies detrimental effects of increased nutrient inputs. Limnology and Oceanography, 2007, 52, 338-353.	3.1	151
12	Turbulent kinetic energy balance as a tool for estimating vertical diffusivity in wind-forced stratified waters. Limnology and Oceanography, 2000, 45, 1388-1400.	3.1	144
13	Application of $k-\epsilon$ turbulence models to enclosed basins: The role of internal seiches. Journal of Geophysical Research, 2002, 107, 23-1-23-13.	3.3	134
14	Observations of the second vertical mode of the internal seiche in an alpine lake. Limnology and Oceanography, 1992, 37, 1705-1719.	3.1	130
15	Weak mixing in Lake Kivu: New insights indicate increasing risk of uncontrolled gas eruption. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	130
16	Is Lake Prespa Jeopardizing the Ecosystem of Ancient Lake Ohrid?. Hydrobiologia, 2006, 553, 89-109.	2.0	106
17	Prediction of surface temperature in lakes with different morphology using air temperature. Limnology and Oceanography, 2014, 59, 2185-2202.	3.1	106
18	Sensitivity of Ancient Lake Ohrid to Local Anthropogenic Impacts and Global Warming. Journal of Great Lakes Research, 2006, 32, 158-179.	1.9	105

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19	Lake surface temperatures in a changing climate: a global sensitivity analysis. <i>Climatic Change</i> , 2014, 124, 301-315.	3.6	103
20	Methane sources and sinks in Lake Kivu. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96
21	Effects of climate change on deepwater oxygen and winter mixing in a deep lake (<sc>L</sc>ake) Tj ETQq1 1 0.784314 rgBT /Over 52, 8811-8826.	4.2	96
22	Boundary versus internal diapycnal mixing in stratified natural waters. <i>Journal of Geophysical Research</i> , 1997, 102, 27903-27914.	3.3	92
23	Modeling the Effect of Water Diversion on the Temperature of Mountain Streams. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 755-764.	1.4	86
24	Interaction between a bubble plume and the near field in a stratified lake. <i>Water Resources Research</i> , 2004, 40, .	4.2	85
25	Application of Oxygen Eddy Correlation in Aquatic Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1533-1546.	1.3	85
26	Convection in Lakes. <i>Annual Review of Fluid Mechanics</i> , 2019, 51, 189-215.	25.0	85
27	Comparison of dissipation of turbulent kinetic energy determined from shear and temperature microstructure. <i>Journal of Marine Systems</i> , 1999, 21, 67-84.	2.1	82
28	Impact of a large tropical reservoir on riverine transport of sediment, carbon, and nutrients to downstream wetlands. <i>Water Resources Research</i> , 2011, 47, .	4.2	81
29	Comparison of diapycnal diffusivity measured by tracer and microstructure techniques. <i>Dynamics of Atmospheres and Oceans</i> , 1996, 24, 27-39.	1.8	80
30	Internal carbon and nutrient cycling in Lake Baikal: sedimentation, upwelling, and early diagenesis. <i>Global and Planetary Change</i> , 2005, 46, 101-124.	3.5	78
31	Measurements of eddy correlation oxygen fluxes in shallow freshwaters: Towards routine applications and analysis. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	77
32	Hypolimnetic oxygen consumption by sedimentâ€based reduced substances in former eutrophic lakes. <i>Limnology and Oceanography</i> , 2010, 55, 2073-2084.	3.1	77
33	A conceptual framework for hydropeaking mitigation. <i>Science of the Total Environment</i> , 2016, 568, 1204-1212.	8.0	77
34	Degassing the â€Killer Lakesâ€Nyos and Monoun, Cameroon. <i>Eos</i> , 2004, 85, 281.	0.1	76
35	Heat flux modifications related to climateâ€induced warming of large European lakes. <i>Water Resources Research</i> , 2014, 50, 2072-2085.	4.2	76
36	Shear-induced convective mixing in bottom boundary layers on slopes. <i>Limnology and Oceanography</i> , 2005, 50, 1612-1619.	3.1	71

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37	Cold intrusions in Lake Baikal: Direct observational evidence for deep-water renewal. <i>Limnology and Oceanography</i> , 2005, 50, 184-196.	3.1	70
38	Effects of upstream hydropower operation on riverine particle transport and turbidity in downstream lakes. <i>Water Resources Research</i> , 2006, 42, .	4.2	70
39	Is phosphorus retention in autochthonous lake sediments controlled by oxygen or phosphorus?. <i>Limnology and Oceanography</i> , 2006, 51, 763-771.	3.1	70
40	Small-scale turbulence and vertical mixing in Lake Baikal. <i>Limnology and Oceanography</i> , 2000, 45, 159-173.	3.1	69
41	Dynamics of mixed bottom boundary layers and its implications for diapycnal transport in a stratified, natural water basin. <i>Journal of Geophysical Research</i> , 2000, 105, 8629-8646.	3.3	68
42	Radiatively driven convection in an ice-covered lake investigated by using temperature microstructure technique. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	65
43	Observations of a quasi shear-free lacustrine convective boundary layer: Stratification and its implications on turbulence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	65
44	Horizontal mixing in lakes. <i>Journal of Geophysical Research</i> , 1996, 101, 18361-18375.	3.3	64
45	Response of Lake Kivu stratification to lava inflow and climate warming. <i>Limnology and Oceanography</i> , 2004, 49, 778-783.	3.1	63
46	Double-diffusive convection in Lake Kivu. <i>Limnology and Oceanography</i> , 2010, 55, 225-238.	3.1	63
47	A priori estimates of mixing and circulation in the hard-to-reach water body of Lake Vostok. <i>Ocean Modelling</i> , 2000, 2, 29-43.	2.4	62
48	Sediment accumulation and carbon, nitrogen, and phosphorus deposition in the large tropical reservoir Lake Kariba (Zambia/Zimbabwe). <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
49	Dynamics of Turbulence in Low-Speed Oscillating Bottom-Boundary Layers of Stratified Basins. <i>Environmental Fluid Mechanics</i> , 2002, 2, 291-313.	1.6	60
50	Application of Coherent ADCP for Turbulence Measurements in the Bottom Boundary Layer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 1821-1828.	1.3	60
51	Intermittent oxygen flux from the interior into the bottom boundary of lakes as observed by eddy correlation. <i>Limnology and Oceanography</i> , 2008, 53, 1997-2006.	3.1	60
52	Balancing nutrient inputs to Lake Kivu. <i>Journal of Great Lakes Research</i> , 2009, 35, 406-418.	1.9	60
53	Application of remote sensing for the optimization of in-situ sampling for monitoring of phytoplankton abundance in a large lake. <i>Science of the Total Environment</i> , 2015, 527-528, 493-506.	8.0	60
54	Sources and sinks of methane in Lake Baikal: A synthesis of measurements and modeling. <i>Limnology and Oceanography</i> , 2007, 52, 1824-1837.	3.1	52

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55	Probability density of displacement and overturning length scales under diverse stratification. <i>Journal of Geophysical Research</i> , 2002, 107, 7-1-7-11.	3.3	48
56	Physical and biogeochemical limits to internal nutrient loading of meromictic Lake Kivu. <i>Limnology and Oceanography</i> , 2009, 54, 1863-1873.	3.1	47
57	Simulations of a double-diffusive interface in the diffusive convection regime. <i>Journal of Fluid Mechanics</i> , 2012, 711, 411-436.	3.4	46
58	Lake Baikal deepwater renewal mystery solved. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	45
59	Under-ice convection dynamics in a boreal lake. <i>Inland Waters</i> , 2019, 9, 142-161.	2.2	45
60	Density structure and tritium-helium age of deep hypolimnetic water in the northern basin of Lake Lugano. <i>Aquatic Sciences</i> , 1992, 54, 205-218.	1.5	44
61	MERIS observations of phytoplankton blooms in a stratified eutrophic lake. <i>Remote Sensing of Environment</i> , 2012, 126, 232-239.	11.0	44
62	Acoustic observations of zooplankton in lakes using a Doppler current profiler. <i>Freshwater Biology</i> , 2004, 49, 1280-1292.	2.4	43
63	Green Hydropower: The contribution of aquatic science research to the promotion of sustainable electricity. <i>Aquatic Sciences</i> , 2003, 65, 99-110.	1.5	42
64	Double-diffusive convection in Lake Nyos, Cameroon. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1097-1111.	1.4	42
65	Physical effects of thermal pollution in lakes. <i>Water Resources Research</i> , 2017, 53, 3968-3987.	4.2	42
66	Calcite dissolution in two deep eutrophic lakes. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3349-3356.	3.9	39
67	Ice-covered Lake Onega: effects of radiation on convection and internal waves. <i>Hydrobiologia</i> , 2016, 780, 21-36.	2.0	39
68	Measurement and simulation of viscous dissipation in the wave affected surface layer. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 1133-1155.	1.4	38
69	Evaluating oxygen fluxes using microprofiles from both sides of the sediment-water interface. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 610-627.	2.0	38
70	Modelling Lake Kivu water level variations over the last seven decades. <i>Limnologica</i> , 2014, 47, 21-33.	1.5	38
71	A new robust oxygen-temperature sensor for aquatic eddy covariance measurements. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 151-167.	2.0	38
72	Bacteria-induced mixing in natural waters. <i>Geophysical Research Letters</i> , 2017, 44, 9424-9432.	4.0	38

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73	Silica retention in the Iron Gate I reservoir on the Danube River: the role of side bays as nutrient sinks. <i>River Research and Applications</i> , 2006, 22, 441-456.	1.7	34
74	Effects of alpine hydropower operations on primary production in a downstream lake. <i>Aquatic Sciences</i> , 2007, 69, 240-256.	1.5	34
75	Meteolakes: An operational online three-dimensional forecasting platform for lake hydrodynamics. <i>Water Research</i> , 2020, 172, 115529.	11.3	34
76	Development and sensitivity analysis of a model for assessing stratification and safety of Lake Nyos during artificial degassing. <i>Ocean Dynamics</i> , 2003, 53, 288-301.	2.2	33
77	Revisiting Microstructure Sensor Responses with Implications for Double-Diffusive Fluxes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1907-1923.	1.3	33
78	Are surface temperature and chlorophyll in a large deep lake related? An analysis based on satellite observations in synergy with hydrodynamic modelling and in-situ data. <i>Remote Sensing of Environment</i> , 2018, 209, 510-523.	11.0	33
79	Tributaries affect the thermal response of lakes to climate change. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 31-51.	4.9	33
80	Effects of impoundment on nutrient availability and productivity in lakes. <i>Limnology and Oceanography</i> , 2007, 52, 2629-2640.	3.1	31
81	Organic carbon mass accumulation rate regulates the flux of reduced substances from the sediments of deep lakes. <i>Biogeosciences</i> , 2017, 14, 3275-3285.	3.3	31
82	Hypolimnetic oxygen depletion rates in deep lakes: Effects of trophic state and organic matter accumulation. <i>Limnology and Oceanography</i> , 2020, 65, 3128-3138.	3.1	31
83	Stability of a Double-Diffusive Interface in the Diffusive Convection Regime. <i>Journal of Physical Oceanography</i> , 2012, 42, 840-854.	1.7	30
84	Do Microscopic Organisms Feel Turbulent Flows?. <i>Environmental Science & Technology</i> , 2009, 43, 764-768.	10.0	29
85	Interface structure and flux laws in a natural double-diffusive layering. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6092-6106.	2.6	29
86	Present and past bio-available phosphorus budget in the ultra-oligotrophic Lake Brienz. <i>Aquatic Sciences</i> , 2007, 69, 227-239.	1.5	28
87	Boundary mixing in lakes: 2. Combined effects of shear- and convectively induced turbulence on basin-scale mixing. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
88	Flood frequency matters: Why climate change degrades deep-water quality of peri-alpine lakes. <i>Journal of Hydrology</i> , 2016, 540, 457-468.	5.4	28
89	Positron Blocking from Muon Decay in Silicon. <i>Physical Review Letters</i> , 1984, 52, 938-941.	7.8	27
90	Current variability in a wide and open lacustrine embayment in Lake Geneva (Switzerland). <i>Journal of Great Lakes Research</i> , 2013, 39, 455-465.	1.9	27

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91	Data assimilation of in situ and satellite remote sensing data to 3D hydrodynamic lake models: a case study using Delft3D-FLOW v4.03 and OpenDA v2.4. <i>Geoscientific Model Development</i> , 2020, 13, 1267-1284.	3.6	27
92	Origin and size of hypolimnic mixing in Urnersee, the southern basin of Vierwaldstättersee (Lake Tj ETQq0 0 0 rgBTj/Overlock, 10 Tf 50	0.8	26
93	Title is missing!. <i>Journal of Paleolimnology</i> , 2000, 24, 277-291.	1.6	26
94	Trend-oriented sampling strategy and estimation of soluble reactive phosphorus loads in streams. <i>Water Resources Research</i> , 2005, 41, .	4.2	26
95	Carbonate sedimentation and effects of eutrophication observed at the KaliÅŕta subaquatic springs in Lake Ohrid (Macedonia). <i>Biogeosciences</i> , 2010, 7, 3755-3767.	3.3	26
96	Effects of oligotrophication on primary production in periâ€Alpine lakes. <i>Water Resources Research</i> , 2013, 49, 4700-4710.	4.2	26
97	Into the abyss of Lake Geneva: the elemo interdisciplinary field investigation using the MIR submersibles. <i>Aquatic Sciences</i> , 2014, 76, 1-6.	1.5	26
98	Using smallâ€scale measurements to estimate hypolimnetic oxygen depletion in a deep lake. <i>Limnology and Oceanography</i> , 2018, 63, S54.	3.1	26
99	Mechanical energy budget and mixing efficiency for a radiatively heated ice-covered waterbody. <i>Journal of Fluid Mechanics</i> , 2018, 852, .	3.4	26
100	Characterisation of the Subaquatic Groundwater Discharge That Maintains the Permanent Stratification within Lake Kivu; East Africa. <i>PLoS ONE</i> , 2015, 10, e0121217.	2.5	25
101	Increased sediment oxygen flux in lakes and reservoirs: The impact of hypolimnetic oxygenation. <i>Water Resources Research</i> , 2017, 53, 4876-4890.	4.2	25
102	Differential Heating Drives Downslope Flows that Accelerate Mixedâ€Layer Warming in Iceâ€Covered Waters. <i>Geophysical Research Letters</i> , 2019, 46, 13872-13882.	4.0	25
103	Phosphate adsorption by mineral weathering particles in oligotrophic waters of high particle content. <i>Water Resources Research</i> , 2006, 42, .	4.2	24
104	Particle dynamics in highâ€Alpine proglacial reservoirs modified by pumpedâ€storage operation. <i>Water Resources Research</i> , 2011, 47, .	4.2	24
105	Modeling of temperature and turbidity in a natural lake and a reservoir connected by pumpedâ€storage operations. <i>Water Resources Research</i> , 2012, 48, .	4.2	24
106	Large lakes as sources and sinks of anthropogenic heat: Capacities and limits. <i>Water Resources Research</i> , 2014, 50, 7285-7301.	4.2	24
107	Effects of upstream hydropower operation and oligotrophication on the light regime of a turbid peri-alpine lake. <i>Aquatic Sciences</i> , 2007, 69, 212-226.	1.5	23
108	Stratification, Mixing and Transport Processes in Lake Kivu. , 2012, , 13-29.		23

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109	Optimizing the parameterization of deep mixing and internal seiches in one-dimensional hydrodynamic models: a case study with Simstrat v1.3. <i>Geoscientific Model Development</i> , 2017, 10, 3411-3423.	3.6	23
110	Using lakes and rivers for extraction and disposal of heat: Estimate of regional potentials. <i>Renewable Energy</i> , 2019, 134, 330-342.	8.9	23
111	Comparing effects of oligotrophication and upstream hydropower dams on plankton and productivity in perialpine lakes. <i>Water Resources Research</i> , 2007, 43, .	4.2	22
112	Accelerated Water Quality Improvement during Oligotrophication in Peri-Alpine Lakes. <i>Environmental Science & Technology</i> , 2014, 48, 6671-6677.	10.0	22
113	Oxygen consumption in seasonally stratified lakes decreases only below a marginal phosphorus threshold. <i>Scientific Reports</i> , 2019, 9, 18054.	3.3	22
114	Optimizing turbine withdrawal from a tropical reservoir for improved water quality in downstream wetlands. <i>Water Resources Research</i> , 2013, 49, 5570-5584.	4.2	21
115	Double-€diffusive interfaces in Lake Kivu reproduced by direct numerical simulations. <i>Geophysical Research Letters</i> , 2014, 41, 5114-5121.	4.0	21
116	Global warming affects nutrient upwelling in deep lakes. <i>Aquatic Sciences</i> , 2019, 81, 1.	1.5	21
117	Simulation of CO2 concentrations, temperature, and stratification in Lake Nyos for different degassing scenarios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	20
118	Lake Brienz Project: An interdisciplinary catchment-to-lake study. <i>Aquatic Sciences</i> , 2007, 69, 173-178.	1.5	20
119	Drivers of deep-€water renewal events observed over 13 years in the <sc>S</sc>outh <sc>B</sc>asin of <sc>L</sc>ake <sc>B</sc>aikal. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1508-1526.	2.6	20
120	<sc>LÃ©XPLORÉ</sc>: A floating laboratory on Lake Geneva offering unique lake research opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1544.	6.5	20
121	Resolving biogeochemical processes in lakes using remote sensing. <i>Aquatic Sciences</i> , 2019, 81, 1.	1.5	18
122	An automated calibration framework and open source tools for 3D lake hydrodynamic models. <i>Environmental Modelling and Software</i> , 2020, 134, 104787.	4.5	18
123	Enhanced mixing in narrows: A case study at the Mainau sill (Lake Constance). <i>Aquatic Sciences</i> , 1998, 60, 236.	1.5	17
124	Effects of Lake-€Reservoir Pumped-Storage Operations on Temperature and Water Quality. <i>Sustainability</i> , 2018, 10, 1968.	3.2	17
125	Surface turbulence in natural waters: A comparison of large eddy simulations with microstructure observations. <i>Journal of Geophysical Research</i> , 2000, 105, 1195-1207.	3.3	16
126	Scaling oxygen microprofiles at the sediment interface of deep stratified waters. <i>Geophysical Research Letters</i> , 2017, 44, 1340-1349.	4.0	15

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127	Spatial and temporal changes of primary production in a deep peri-alpine lake. <i>Inland Waters</i> , 2019, 9, 49-60.	2.2	15
128	Development of overturning circulation in sloping waterbodies due to surface cooling. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	3.4	15
129	Double Diffusion in Saline Powell Lake, British Columbia. <i>Journal of Physical Oceanography</i> , 2014, 44, 2893-2908.	1.7	13
130	Primary and Net Ecosystem Production in a Large Lake Diagnosed From High-Resolution Oxygen Measurements. <i>Water Resources Research</i> , 2021, 57, e2020WR029283.	4.2	13
131	Methane Formation and Future Extraction in Lake Kivu. , 2012, , 165-180.		13
132	Nutrient retention in the Danube's Iron Gate reservoir. <i>Eos</i> , 2006, 87, 385.	0.1	12
133	Microsensor for in situ flow measurements in benthic boundary layers at submillimeter resolution with extremely slow flow. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 185-191.	2.0	12
134	Small-Scale Turbulence and Mixing: Energy Fluxes in Stratified Lakes. , 2009, , 628-635.		12
135	Energetics of Radiatively Heated Ice-Covered Lakes. <i>Geophysical Research Letters</i> , 2019, 46, 8913-8925.	4.0	12
136	Hydrodynamics of a periodically wind-forced small and narrow stratified basin: a large-eddy simulation experiment. <i>Environmental Fluid Mechanics</i> , 2019, 19, 667-698.	1.6	12
137	Seasonality modulates wind-driven mixing pathways in a large lake. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	12
138	Bottom boundary mixing: The role of near-sediment density stratification. <i>Coastal and Estuarine Studies</i> , 1998, , 485-502.	0.4	11
139	The Red Harmful Plague in Times of Climate Change: Blooms of the Cyanobacterium <i>Planktothrix rubescens</i> Triggered by Stratification Dynamics and Irradiance. <i>Frontiers in Microbiology</i> , 2021, 12, 705914.	3.5	11
140	Seasonality of density currents induced by differential cooling. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 331-353.	4.9	11
141	Hypolimnetic density currents traced by sulphur hexafluoride (SF6). <i>Aquatic Sciences</i> , 1997, 59, 225-242.	1.5	10
142	Retrieval of vertical particle concentration profiles by optical remote sensing: a model study. <i>Optics Express</i> , 2014, 22, A947.	3.4	10
143	Persistence of bioconvection-induced mixed layers in a stratified lake. <i>Limnology and Oceanography</i> , 2021, 66, 1531-1547.	3.1	10
144	The Imprint of Primary Production on High-Frequency Profiles of Lake Optical Properties. <i>Environmental Science & Technology</i> , 2021, 55, 14234-14244.	10.0	10

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145	Effects of non-uniform vertical constituent profiles on remote sensing reflectance of oligo- to mesotrophic lakes. <i>European Journal of Remote Sensing</i> , 2018, 51, 808-821.	3.5	9
146	Convection&Diffusion Competition Within Mixed Layers of Stratified Natural Waters. <i>Geophysical Research Letters</i> , 2019, 46, 13199-13208.	4.0	9
147	Combined effects of pumped-storage operation and climate change on thermal structure and water quality. <i>Climatic Change</i> , 2019, 152, 413-429.	3.6	9
148	Comment on An additional challenge of Lake Kivu in Central Africa â€“ upward movement of the chemoclines by Finn Hirslund. <i>Journal of Limnology</i> , 2012, 71, 35.	1.1	8
149	Minimal model for double diffusion and its application to <scp>K</scp>ivu, <scp>N</scp>yos, and <scp>P</scp>owell <scp>L</scp>ake. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6202-6224.	2.6	8
150	Model-based data analysis of the effect of winter mixing on primary production in a lake under reoligotrophication. <i>Ecological Modelling</i> , 2021, 440, 109401.	2.5	7
151	Inhibited vertical mixing and seasonal persistence of a thin cyanobacterial layer in a stratified lake. <i>Aquatic Sciences</i> , 2021, 83, 1.	1.5	7
152	Nutrient Cycling in Lake Kivu. , 2012, , 31-45.		7
153	Muon decay channeling in silicon. <i>Hyperfine Interactions</i> , 1984, 19, 965-970.	0.5	6
154	Life under ice in Lake Onego (Russia) â€“ an interdisciplinary winter limnology study. <i>Inland Waters</i> , 2019, 9, 125-129.	2.2	6
155	The role of double diffusion for the heat and salt balance in Lake Kivu. <i>Limnology and Oceanography</i> , 2019, 64, 650-660.	3.1	6
156	Improved Modeling of Sediment Oxygen Kinetics and Fluxes in Lakes and Reservoirs. <i>Environmental Science & Technology</i> , 2020, 54, 2658-2666.	10.0	6
157	Increasing Carbon-to-Phosphorus Ratio (C:P) from Seston as a Prime Indicator for the Initiation of Lake Reoligotrophication. <i>Environmental Science & Technology</i> , 2021, 55, 6459-6466.	10.0	6
158	Net Ecosystem Production of Lakes Estimated From Hypolimnetic Organic Carbon Sinks. <i>Water Resources Research</i> , 2021, 57, e2020WR029473.	4.2	6
159	Cyre formation in open and deep lacustrine embayments: the example of Lake Geneva, Switzerland. <i>Environmental Fluid Mechanics</i> , 2017, 17, 415-428.	1.6	5
160	Hypolimnetic density currents traced by sulphur hexafluoride (SF6). <i>Aquatic Sciences</i> , 1997, 59, 225-242.	1.5	5
161	Horizontal transport under wind-induced resonance in stratified waterbodies. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	4
162	Assessing Subaquatic Mass Movement Hazards: an Integrated Observational and Hydrodynamic Modelling Approach. <i>Water Resources Management</i> , 2020, 34, 4133-4146.	3.9	3

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163	The Landâ€™Waterâ€™Energy Nexus of Ruzizi River Dams (Lake Kivu Outflow, African Great Lakes Region): Status, Challenges, and Perspectives. <i>Frontiers in Environmental Science</i> , 0, 10, .	3.3	3
164	Retrieval of Particle Scattering Coefficients and Concentrations by Genetic Algorithms in Stratified Lake Water. <i>Remote Sensing</i> , 2014, 6, 9530-9551.	4.0	2
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