

# Alfred Wuest

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1429457/publications.pdf>

Version: 2024-02-01

177  
papers

8,721  
citations

41627

51  
h-index

71088

80  
g-index

185  
all docs

185  
docs citations

185  
times ranked

7297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current status and strategic way forward for long-term management of Lake Kivu (East Africa). <i>Journal of Great Lakes Research</i> , 2023, 49, 102024.	0.8	1
2	Development of overturning circulation in sloping waterbodies due to surface cooling. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	1.4	15
3	Seasonality of density currents induced by differential cooling. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 331-353.	1.9	11
4	Coupling remote sensing and particle tracking to estimate trajectories in large water bodies. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 110, 102809.	0.9	2
5	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.	1.2	7
6	Persistence of bioconvection-induced mixed layers in a stratified lake. <i>Limnology and Oceanography</i> , 2021, 66, 1531-1547.	1.6	10
7	Inhibited vertical mixing and seasonal persistence of a thin cyanobacterial layer in a stratified lake. <i>Aquatic Sciences</i> , 2021, 83, 1.	0.6	7
8	Increasing Carbon-to-Phosphorus Ratio (C:P) from Seston as a Prime Indicator for the Initiation of Lake Reoligotrophication. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6459-6466.	4.6	6
9	Primary and Net Ecosystem Production in a Large Lake Diagnosed From High-Resolution Oxygen Measurements. <i>Water Resources Research</i> , 2021, 57, e2020WR029283.	1.7	13
10	Net Ecosystem Production of Lakes Estimated From Hypolimnetic Organic Carbon Sinks. <i>Water Resources Research</i> , 2021, 57, e2020WR029473.	1.7	6
11	<sc>EXPLORE</sc>: A floating laboratory on Lake Geneva offering unique lake research opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1544.	2.8	20
12	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.	1.5	11
13	The Imprint of Primary Production on High-Frequency Profiles of Lake Optical Properties. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14234-14244.	4.6	10
14	Small-Scale Turbulence and Mixing: Energy Fluxes in Stratified Lakes. , 2021, , .		0
15	Seasonality modulates wind-driven mixing pathways in a large lake. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	12
16	Subaquatic slope instabilities: The aftermath of river correction and artificial dumps in Lake Biel (Switzerland). <i>Sedimentology</i> , 2020, 67, 971-990.	1.6	1
17	An automated calibration framework and open source tools for 3D lake hydrodynamic models. <i>Environmental Modelling and Software</i> , 2020, 134, 104787.	1.9	18
18	Hypolimnetic oxygen depletion rates in deep lakes: Effects of trophic state and organic matter accumulation. <i>Limnology and Oceanography</i> , 2020, 65, 3128-3138.	1.6	31

#	ARTICLE	IF	CITATIONS
19	Assessing Subaquatic Mass Movement Hazards: an Integrated Observational and Hydrodynamic Modelling Approach. <i>Water Resources Management</i> , 2020, 34, 4133-4146.	1.9	3
20	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.	1.3	27
21	Improved Modeling of Sediment Oxygen Kinetics and Fluxes in Lakes and Reservoirs. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2658-2666.	4.6	6
22	Meteolakes: An operational online three-dimensional forecasting platform for lake hydrodynamics. <i>Water Research</i> , 2020, 172, 115529.	5.3	34
23	Horizontal transport under wind-induced resonance in stratified waterbodies. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	4
24	Energetics of Radiatively Heated Ice-Covered Lakes. <i>Geophysical Research Letters</i> , 2019, 46, 8913-8925.	1.5	12
25	Convection-Diffusion Competition Within Mixed Layers of Stratified Natural Waters. <i>Geophysical Research Letters</i> , 2019, 46, 13199-13208.	1.5	9
26	Life under ice in Lake Onego (Russia) – an interdisciplinary winter limnology study. <i>Inland Waters</i> , 2019, 9, 125-129.	1.1	6
27	Resolving biogeochemical processes in lakes using remote sensing. <i>Aquatic Sciences</i> , 2019, 81, 1.	0.6	18
28	Global warming affects nutrient upwelling in deep lakes. <i>Aquatic Sciences</i> , 2019, 81, 1.	0.6	21
29	Spatial and temporal changes of primary production in a deep peri-alpine lake. <i>Inland Waters</i> , 2019, 9, 49-60.	1.1	15
30	Under-ice convection dynamics in a boreal lake. <i>Inland Waters</i> , 2019, 9, 142-161.	1.1	45
31	Differential Heating Drives Downslope Flows that Accelerate Mixed-Layer Warming in Ice-Covered Waters. <i>Geophysical Research Letters</i> , 2019, 46, 13872-13882.	1.5	25
32	Oxygen consumption in seasonally stratified lakes decreases only below a marginal phosphorus threshold. <i>Scientific Reports</i> , 2019, 9, 18054.	1.6	22
33	Convection in Lakes. <i>Annual Review of Fluid Mechanics</i> , 2019, 51, 189-215.	10.8	85
34	Combined effects of pumped-storage operation and climate change on thermal structure and water quality. <i>Climatic Change</i> , 2019, 152, 413-429.	1.7	9
35	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.	0.7	12
36	The role of double diffusion for the heat and salt balance in Lake Kivu. <i>Limnology and Oceanography</i> , 2019, 64, 650-660.	1.6	6

#	ARTICLE	IF	CITATIONS
37	Using lakes and rivers for extraction and disposal of heat: Estimate of regional potentials. <i>Renewable Energy</i> , 2019, 134, 330-342.	4.3	23
38	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.	4.6	33
39	Using small-scale measurements to estimate hypolimnetic oxygen depletion in a deep lake. <i>Limnology and Oceanography</i> , 2018, 63, S54.	1.6	26
40	Effects of Lake Reservoir Pumped-Storage Operations on Temperature and Water Quality. <i>Sustainability</i> , 2018, 10, 1968.	1.6	17
41	Tributaries affect the thermal response of lakes to climate change. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 31-51.	1.9	33
42	Mechanical energy budget and mixing efficiency for a radiatively heated ice-covered waterbody. <i>Journal of Fluid Mechanics</i> , 2018, 852, .	1.4	26
43	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.	1.7	9
44	Scaling oxygen microprofiles at the sediment interface of deep stratified waters. <i>Geophysical Research Letters</i> , 2017, 44, 1340-1349.	1.5	15
45	Physical effects of thermal pollution in lakes. <i>Water Resources Research</i> , 2017, 53, 3968-3987.	1.7	42
46	Gyre formation in open and deep lacustrine embayments: the example of Lake Geneva, Switzerland. <i>Environmental Fluid Mechanics</i> , 2017, 17, 415-428.	0.7	5
47	Increased sediment oxygen flux in lakes and reservoirs: The impact of hypolimnetic oxygenation. <i>Water Resources Research</i> , 2017, 53, 4876-4890.	1.7	25
48	Bacteria-induced mixing in natural waters. <i>Geophysical Research Letters</i> , 2017, 44, 9424-9432.	1.5	38
49	Organic carbon mass accumulation rate regulates the flux of reduced substances from the sediments of deep lakes. <i>Biogeosciences</i> , 2017, 14, 3275-3285.	1.3	31
50	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.	1.3	23
51	A new robust oxygen-temperature sensor for aquatic eddy covariance measurements. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 151-167.	1.0	38
52	Flood frequency matters: Why climate change degrades deep-water quality of peri-alpine lakes. <i>Journal of Hydrology</i> , 2016, 540, 457-468.	2.3	28
53	Ice-covered Lake Onega: effects of radiation on convection and internal waves. <i>Hydrobiologia</i> , 2016, 780, 21-36.	1.0	39
54	Effects of climate change on deepwater oxygen and winter mixing in a deep lake (Lake Tj ETQq0 0 0 rgBT /Overlock 10 Tf 52, 8811-8826.	1.7	96

#	ARTICLE	IF	CITATIONS
55	A conceptual framework for hydropeaking mitigation. <i>Science of the Total Environment</i> , 2016, 568, 1204-1212.	3.9	77
56	Minimal model for double diffusion and its application to <sc>K</sc>ivu, <sc>N</sc>yos, and <sc>P</sc>owell <sc>L</sc>ake. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6202-6224.	1.0	8
57	Characterisation of the Subaquatic Groundwater Discharge That Maintains the Permanent Stratification within Lake Kivu; East Africa. <i>PLoS ONE</i> , 2015, 10, e0121217.	1.1	25
58	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.	1.0	20
59	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.	3.9	60
60	Double-diffusive interfaces in Lake Kivu reproduced by direct numerical simulations. <i>Geophysical Research Letters</i> , 2014, 41, 5114-5121.	1.5	21
61	Retrieval of Particle Scattering Coefficients and Concentrations by Genetic Algorithms in Stratified Lake Water. <i>Remote Sensing</i> , 2014, 6, 9530-9551.	1.8	2
62	Heat flux modifications related to climate-induced warming of large European lakes. <i>Water Resources Research</i> , 2014, 50, 2072-2085.	1.7	76
63	Retrieval of vertical particle concentration profiles by optical remote sensing: a model study. <i>Optics Express</i> , 2014, 22, A947.	1.7	10
64	Lake surface temperatures in a changing climate: a global sensitivity analysis. <i>Climatic Change</i> , 2014, 124, 301-315.	1.7	103
65	Double Diffusion in Saline Powell Lake, British Columbia. <i>Journal of Physical Oceanography</i> , 2014, 44, 2893-2908.	0.7	13
66	Accelerated Water Quality Improvement during Oligotrophication in Peri-Alpine Lakes. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6671-6677.	4.6	22
67	Into the abyss of Lake Geneva: the elemo interdisciplinary field investigation using the MIR submersibles. <i>Aquatic Sciences</i> , 2014, 76, 1-6.	0.6	26
68	Modelling Lake Kivu water level variations over the last seven decades. <i>Limnologica</i> , 2014, 47, 21-33.	0.7	38
69	Large lakes as sources and sinks of anthropogenic heat: Capacities and limits. <i>Water Resources Research</i> , 2014, 50, 7285-7301.	1.7	24
70	Prediction of surface temperature in lakes with different morphology using air temperature. <i>Limnology and Oceanography</i> , 2014, 59, 2185-2202.	1.6	106
71	Impacts by dams: From water quality modelling to management optimization. , 2014, , 2357-2362.		0
72	Current variability in a wide and open lacustrine embayment in Lake Geneva (Switzerland). <i>Journal of Great Lakes Research</i> , 2013, 39, 455-465.	0.8	27

#	ARTICLE	IF	CITATIONS
73	Optimizing turbine withdrawal from a tropical reservoir for improved water quality in downstream wetlands. <i>Water Resources Research</i> , 2013, 49, 5570-5584.	1.7	21
74	Revisiting Microstructure Sensor Responses with Implications for Double-Diffusive Fluxes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1907-1923.	0.5	33
75	Interface structure and flux laws in a natural double-diffusive layering. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6092-6106.	1.0	29
76	Effects of oligotrophication on primary production in peri-alpine lakes. <i>Water Resources Research</i> , 2013, 49, 4700-4710.	1.7	26
77	Stratification, Mixing and Transport Processes in Lake Kivu. , 2012, , 13-29.		23
78	Simulations of a double-diffusive interface in the diffusive convection regime. <i>Journal of Fluid Mechanics</i> , 2012, 711, 411-436.	1.4	46
79	Hypolimnetic Oxygen Depletion in Eutrophic Lakes. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9964-9971.	4.6	186
80	Modeling of temperature and turbidity in a natural lake and a reservoir connected by pumped-storage operations. <i>Water Resources Research</i> , 2012, 48, .	1.7	24
81	MERIS observations of phytoplankton blooms in a stratified eutrophic lake. <i>Remote Sensing of Environment</i> , 2012, 126, 232-239.	4.6	44
82	Stability of a Double-Diffusive Interface in the Diffusive Convection Regime. <i>Journal of Physical Oceanography</i> , 2012, 42, 840-854.	0.7	30
83	Comment on An additional challenge of Lake Kivu in Central Africa – upward movement of the chemoclines by Finn Hirslund. <i>Journal of Limnology</i> , 2012, 71, .	0.3	1
84	Comment on An additional challenge of Lake Kivu in Central Africa – upward movement of the chemoclines by Finn Hirslund. <i>Journal of Limnology</i> , 2012, 71, 35.	0.3	8
85	Methane Formation and Future Extraction in Lake Kivu. , 2012, , 165-180.		13
86	Nutrient Cycling in Lake Kivu. , 2012, , 31-45.		7
87	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
88	Particle dynamics in high-Alpine proglacial reservoirs modified by pumped-storage operation. <i>Water Resources Research</i> , 2011, 47, .	1.7	24
89	Methane sources and sinks in Lake Kivu. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96
90	Impact of a large tropical reservoir on riverine transport of sediment, carbon, and nutrients to downstream wetlands. <i>Water Resources Research</i> , 2011, 47, .	1.7	81

#	ARTICLE	IF	CITATIONS
91	Spatial Heterogeneity of Methane Ebullition in a Large Tropical Reservoir. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9866-9873.	4.6	205
92	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
93	Carbonate sedimentation and effects of eutrophication observed at the KaliÅita subaquatic springs in Lake Ohrid (Macedonia). <i>Biogeosciences</i> , 2010, 7, 3755-3767.	1.3	26
94	Hypolimnetic oxygen consumption by sedimentâ€based reduced substances in former eutrophic lakes. <i>Limnology and Oceanography</i> , 2010, 55, 2073-2084.	1.6	77
95	Application of Oxygen Eddy Correlation in Aquatic Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1533-1546.	0.5	85
96	Doubleâ€diffusive convection in Lake Kivu. <i>Limnology and Oceanography</i> , 2010, 55, 225-238.	1.6	63
97	Evaluating oxygen fluxes using microprofiles from both sides of the sedimentâ€water interface. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 610-627.	1.0	38
98	Physical and biogeochemical limits to internal nutrient loading of meromictic Lake Kivu. <i>Limnology and Oceanography</i> , 2009, 54, 1863-1873.	1.6	47
99	Aquatic Sciences celebrates its 20th anniversary. <i>Aquatic Sciences</i> , 2009, 71, 1-2.	0.6	0
100	Do Microscopic Organisms Feel Turbulent Flows?. <i>Environmental Science &amp; Technology</i> , 2009, 43, 764-768.	4.6	29
101	Balancing nutrient inputs to Lake Kivu. <i>Journal of Great Lakes Research</i> , 2009, 35, 406-418.	0.8	60
102	Small-Scale Turbulence and Mixing: Energy Fluxes in Stratified Lakes. , 2009, , 628-635.		12
103	Measurements of eddy correlation oxygen fluxes in shallow freshwaters: Towards routine applications and analysis. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	77
104	Lake Baikal deepwater renewal mystery solved. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	45
105	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.	1.6	60
106	Eutrophication of ancient Lake Ohrid: Global warming amplifies detrimental effects of increased nutrient inputs. <i>Limnology and Oceanography</i> , 2007, 52, 338-353.	1.6	151
107	Sources and sinks of methane in Lake Baikal: A synthesis of measurements and modeling. <i>Limnology and Oceanography</i> , 2007, 52, 1824-1837.	1.6	52
108	Effects of impoundment on nutrient availability and productivity in lakes. <i>Limnology and Oceanography</i> , 2007, 52, 2629-2640.	1.6	31

#	ARTICLE	IF	CITATIONS
109	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.	1.0	12
110	Comparing effects of oligotrophication and upstream hydropower dams on plankton and productivity in perialpine lakes. <i>Water Resources Research</i> , 2007, 43, .	1.7	22
111	Lake Brienz Project: An interdisciplinary catchment-to-lake study. <i>Aquatic Sciences</i> , 2007, 69, 173-178.	0.6	20
112	Present and past bio-available phosphorus budget in the ultra-oligotrophic Lake Brienz. <i>Aquatic Sciences</i> , 2007, 69, 227-239.	0.6	28
113	Effects of alpine hydropower operations on primary production in a downstream lake. <i>Aquatic Sciences</i> , 2007, 69, 240-256.	0.6	34
114	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.	0.6	23
115	Simulation of CO <sub>2</sub> concentrations, temperature, and stratification in Lake Nyos for different degassing scenarios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	20
116	Fate of rising methane bubbles in stratified waters: How much methane reaches the atmosphere?. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	461
117	Effects of upstream hydropower operation on riverine particle transport and turbidity in downstream lakes. <i>Water Resources Research</i> , 2006, 42, .	1.7	70
118	Phosphate adsorption by mineral weathering particles in oligotrophic waters of high particle content. <i>Water Resources Research</i> , 2006, 42, .	1.7	24
119	Nutrient retention in the Danube's Iron Gate reservoir. <i>Eos</i> , 2006, 87, 385.	0.1	12
120	Sensitivity of Ancient Lake Ohrid to Local Anthropogenic Impacts and Global Warming. <i>Journal of Great Lakes Research</i> , 2006, 32, 158-179.	0.8	105
121	Is phosphorus retention in autochthonous lake sediments controlled by oxygen or phosphorus?. <i>Limnology and Oceanography</i> , 2006, 51, 763-771.	1.6	70
122	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.	0.7	34
123	Is Lake Prespa Jeopardizing the Ecosystem of Ancient Lake Ohrid?. <i>Hydrobiologia</i> , 2006, 553, 89-109.	1.0	106
124	Shear-induced convective mixing in bottom boundary layers on slopes. <i>Limnology and Oceanography</i> , 2005, 50, 1612-1619.	1.6	71
125	Cold intrusions in Lake Baikal: Direct observational evidence for deep-water renewal. <i>Limnology and Oceanography</i> , 2005, 50, 184-196.	1.6	70
126	Application of Coherent ADCP for Turbulence Measurements in the Bottom Boundary Layer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 1821-1828.	0.5	60



#	ARTICLE	IF	CITATIONS
127	Internal carbon and nutrient cycling in Lake Baikal: sedimentation, upwelling, and early diagenesis. <i>Global and Planetary Change</i> , 2005, 46, 101-124.	1.6	78
128	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.	0.6	38
129	Weak mixing in Lake Kivu: New insights indicate increasing risk of uncontrolled gas eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	130
130	Trend-oriented sampling strategy and estimation of soluble reactive phosphorus loads in streams. <i>Water Resources Research</i> , 2005, 41, .	1.7	26
131	Acoustic observations of zooplankton in lakes using a Doppler current profiler. <i>Freshwater Biology</i> , 2004, 49, 1280-1292.	1.2	43
132	Degassing the "Killer Lakes" Nyos and Monoun, Cameroon. <i>Eos</i> , 2004, 85, 281.	0.1	76
133	Interaction between a bubble plume and the near field in a stratified lake. <i>Water Resources Research</i> , 2004, 40, .	1.7	85
134	Double-diffusive convection in Lake Nyos, Cameroon. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1097-1111.	0.6	42
135	Response of Lake Kivu stratification to lava inflow and climate warming. <i>Limnology and Oceanography</i> , 2004, 49, 778-783.	1.6	63
136	Interaction between a bubble plume and the near field in a stratified lake. , 2004, , 411-416.		2
137	Hydrodynamic control of sediment-water fluxes. , 2004, , 497-502.		0
138	Formation and expansion of a double-diffusive staircase in Lake Nyos, Cameroon. , 2004, , 233-238.		0
139	Green Hydropower: The contribution of aquatic science research to the promotion of sustainable electricity. <i>Aquatic Sciences</i> , 2003, 65, 99-110.	0.6	42
140	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.	0.9	33
141	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
142	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
143	CO <sub>2</sub> exchange between air and water in an Arctic Alaskan and midlatitude Swiss lake: Importance of convective mixing. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	153
144	SMALL-SCALE HYDRODYNAMICS IN LAKES. <i>Annual Review of Fluid Mechanics</i> , 2003, 35, 373-412.	10.8	458

#	ARTICLE	IF	CITATIONS
145	Modeling the Effect of Water Diversion on the Temperature of Mountain Streams. Journal of Environmental Engineering, ASCE, 2003, 129, 755-764.	0.7	86
146	Breathing sediments: The control of diffusive transport across the sediment-water interface by periodic boundary-layer turbulence. Limnology and Oceanography, 2003, 48, 2077-2085.	1.6	176
147	Application of k- $\mu$ turbulence models to enclosed basins: The role of internal seiches. Journal of Geophysical Research, 2002, 107, 23-1-23-13.	3.3	134
148	Probability density of displacement and overturning length scales under diverse stratification. Journal of Geophysical Research, 2002, 107, 7-1-7-11.	3.3	48
149	Disrupting biogeochemical cycles - Consequences of damming. , 2002, 64, 55-65.		361
150	Dynamics of Turbulence in Low-Speed Oscillating Bottom-Boundary Layers of Stratified Basins. Environmental Fluid Mechanics, 2002, 2, 291-313.	0.7	60
151	Title is missing!. Journal of Paleolimnology, 2000, 24, 277-291.	0.8	26
152	Small-scale turbulence and vertical mixing in Lake Baikal. Limnology and Oceanography, 2000, 45, 159-173.	1.6	69
153	Turbulent kinetic energy balance as a tool for estimating vertical diffusivity in wind-forced stratified waters. Limnology and Oceanography, 2000, 45, 1388-1400.	1.6	144
154	A priori estimates of mixing and circulation in the hard-to-reach water body of Lake Vostok. Ocean Modelling, 2000, 2, 29-43.	1.0	62
155	Surface turbulence in natural waters: A comparison of large eddy simulations with microstructure observations. Journal of Geophysical Research, 2000, 105, 1195-1207.	3.3	16
156	Dynamics of mixed bottom boundary layers and its implications for diapycnal transport in a stratified, natural water basin. Journal of Geophysical Research, 2000, 105, 8629-8646.	3.3	68
157	Comparison of dissipation of turbulent kinetic energy determined from shear and temperature microstructure. Journal of Marine Systems, 1999, 21, 67-84.	0.9	82
158	Calcite dissolution in two deep eutrophic lakes. Geochimica Et Cosmochimica Acta, 1999, 63, 3349-3356.	1.6	39
159	Enhanced mixing in narrows: A case study at the Mainau sill (Lake Constance). Aquatic Sciences, 1998, 60, 236.	0.6	17
160	Bottom boundary mixing: The role of near-sediment density stratification. Coastal and Estuarine Studies, 1998, , 485-502.	0.4	11
161	Boundary versus internal diapycnal mixing in stratified natural waters. Journal of Geophysical Research, 1997, 102, 27903-27914.	3.3	92
162	Hypolimnetic density currents traced by sulphur hexafluoride (SF <sub>6</sub> ). Aquatic Sciences, 1997, 59, 225-242.	0.6	10

#	ARTICLE	IF	CITATIONS
163			