Georgiy B Kirillin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physics of seasonally ice-covered lakes: a review. Aquatic Sciences, 2012, 74, 659-682.	1.5	284
2	The underâ€ice microbiome of seasonally frozen lakes. Limnology and Oceanography, 2013, 58, 1998-2012.	3.1	173
3	Modeling lakes and reservoirs in the climate system. Limnology and Oceanography, 2009, 54, 2315-2329.	3.1	101
4	Radiatively driven convection in ice-covered lakes: Observations, scaling, and a mixed layer model. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	87
5	Contribution of oxic methane production to surface methane emission in lakes and its global importance. Nature Communications, 2019, 10, 5497.	12.8	84
6	Generalized scaling of seasonal thermal stratification in lakes. Earth-Science Reviews, 2016, 161, 179-190.	9.1	77
7	Consequences of thermal pollution from a nuclear plant on lake temperature and mixing regime. Journal of Hydrology, 2013, 496, 47-56.	5.4	71
8	Attribution of global lake systems change to anthropogenic forcing. Nature Geoscience, 2021, 14, 849-854.	12.9	70
9	Enhancing Surface Methane Fluxes from an Oligotrophic Lake: Exploring the Microbubble Hypothesis. Environmental Science & Technology, 2015, 49, 873-880.	10.0	69
10	Future projections of temperature and mixing regime of European temperate lakes. Hydrology and Earth System Sciences, 2019, 23, 1533-1551.	4.9	69
11	Lake ice phenology in Berlin-Brandenburg from 1947–2007: observations and model hindcasts. Climatic Change, 2012, 112, 791-817.	3.6	65
12	Zooplankton carcasses and non-predatory mortality in freshwater and inland sea environments. Journal of Plankton Research, 2014, 36, 597-612.	1.8	63
13	FLake-Global: Online lake model with worldwide coverage. Environmental Modelling and Software, 2011, 26, 683-684.	4.5	62
14	Physical background of the development of oxygen depletion in ice-covered lakes. Oecologia, 2007, 151, 331-340.	2.0	61
15	Some features of the thermal and dissolved oxygen structure in boreal, shallow ice-covered Lake Vendyurskoe, Russia. Aquatic Ecology, 2009, 43, 617-627.	1.5	57
16	Present state of the Aral Sea: diverging physical and biological characteristics of the residual basins. Scientific Reports, 2016, 6, 23906.	3.3	56
17	Extreme Weather Event Triggers Cascade Towards Extreme Turbidity in a Clear-water Lake. Ecosystems, 2017, 20, 1407-1420.	3.4	56
18	Thermocline deepening boosts ecosystem metabolism: evidence from a largeâ€scale lake enclosure experiment simulating a summer storm. Global Change Biology, 2017, 23, 1448-1462.	9.5	55

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19	Rapid degradation of permafrost underneath waterbodies in tundra landscapes—Toward a representation of thermokarst in land surface models. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2446-2470.	2.8	54
20	High Spatiotemporal Dynamics of Methane Production and Emission in Oxic Surface Water. Environmental Science & Technology, 2020, 54, 1451-1463.	10.0	48
21	Integrating Perspectives to Understand Lake Ice Dynamics in a Changing World. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005799.	3.0	48
22	Axisymmetric circulation driven by marginal heating in iceâ€covered lakes. Geophysical Research Letters, 2015, 42, 2893-2900.	4.0	40
23	Planktonic events may cause polymictic-dimictic regime shifts in temperate lakes. Scientific Reports, 2016, 6, 24361.	3.3	40
24	Modeling sinking rate of zooplankton carcasses: Effects of stratification and mixing. Limnology and Oceanography, 2012, 57, 881-894.	3.1	39
25	Thermal processes of thermokarst lakes in the continuous permafrost zone of northern Siberia – observations and modeling (Lena River Delta, Siberia). Biogeosciences, 2015, 12, 5941-5965.	3.3	38
26	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
27	A parameterized model of heat storage by lake sediments. Environmental Modelling and Software, 2010, 25, 793-801.	4.5	35
28	Localization of lacustrine groundwater discharge (LGD) by airborne measurement of thermal infrared radiation. Remote Sensing of Environment, 2013, 138, 119-125.	11.0	35
29	Seasonal thermal regime and climatic trends in lakes of the Tibetan highlands. Hydrology and Earth System Sciences, 2017, 21, 1895-1909.	4.9	34
30	Climate change impact on thermal and oxygen regime of shallow lakes. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 17264.	1.7	32
31	Effects of spring warming and mixing duration on diatom deposition in deep Tiefer See, NE Germany. Journal of Paleolimnology, 2017, 57, 37-49.	1.6	32
32	Airlake boundary layer and performance of a simple lake parameterization scheme over the Tibetan highlands. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 31091.	1.7	30
33	Numerical study on the response of the largest lake in China to climate change. Hydrology and Earth System Sciences, 2019, 23, 2093-2109.	4.9	30
34	Turbulent mixing and heat fluxes under lake ice: the role of seiche oscillations. Hydrology and Earth System Sciences, 2018, 22, 6493-6504.	4.9	29
35	Basin-scale circulation and heat fluxes in ice-covered lakes. Limnology and Oceanography, 2014, 59, 445-464.	3.1	28
36	lceâ€Covered Lakes of Tibetan Plateau as Solar Heat Collectors. Geophysical Research Letters, 2021, 48, e2021GL093429.	4.0	27

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37	Thermal instability in freshwater lakes under ice: Effect of salt gradients or solar radiation?. Cold Regions Science and Technology, 2011, 65, 184-190.	3.5	26
38	Basin-scale internal waves in the bottom boundary layer of ice-covered Lake Müggelsee, Germany. Aquatic Ecology, 2009, 43, 641-651.	1.5	25
39	Climate Change Demands Adaptive Management of Urban Lakes: Model-Based Assessment of Management Scenarios for Lake Tegel (Berlin, Germany). Water (Switzerland), 2018, 10, 186.	2.7	25
40	Effects of the Largest Lake of the Tibetan Plateau on the Regional Climate. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033396.	3.3	24
41	Ice–water heat exchange during ice growth in Lake Baikal. Journal of Great Lakes Research, 2014, 40, 599-607.	1.9	23
42	Criteria for the onset and breakup of summer lake stratification based on routine temperature measurements. Fundamental and Applied Limnology, 2014, 184, 183-194.	0.7	23
43	Seeking a compromise between pharmaceutical pollution and phosphorus load: Management strategies for Lake Tegel, Berlin. Water Research, 2012, 46, 4153-4163.	11.3	22
44	Upwelling of deep water during thermal stratification onset—A major mechanism of vertical transport in small temperate lakes in spring?. Water Resources Research, 2015, 51, 9612-9627.	4.2	22
45	Fine scale structure of convective mixed layer in ice-covered lake. Environmental Fluid Mechanics, 2019, 19, 751-764.	1.6	22
46	Transient convection in upper lake sediments produced by internal seiching. Geophysical Research Letters, 2009, 36, .	4.0	21
47	Citizen science shows systematic changes in the temperature difference between air and inland waters with global warming. Scientific Reports, 2017, 7, 43890.	3.3	21
48	Ice cover decay and heat balance in Lake Kilpisjävi in Arctic tundra. Journal of Limnology, 2019, 78, .	1.1	21
49	Seasonal pattern of rotation-affected internal seiches in a small temperate lake. Limnology and Oceanography, 2013, 58, 1344-1360.	3.1	20
50	Effects of wind-driven circulation on river intrusion in Lake Tegel: modeling study with projection on transport of pollutants. Environmental Fluid Mechanics, 2012, 12, 321-339.	1.6	18
51	Plasticity in habitat use determines metabolic response of fish to global warming in stratified lakes. Oecologia, 2012, 170, 275-287.	2.0	16
52	Net groundwater inflow in an enclosed lake: from synoptic variations to climatic projections. Hydrological Processes, 2013, 27, 347-359.	2.6	15
53	Estimating In Situ Zooplankton Non-Predation Mortality in an Oligo-Mesotrophic Lake from Sediment Trap Data: Caveats and Reality Check. PLoS ONE, 2015, 10, e0131431.	2.5	15
54	Fate of pharmaceutical micro-pollutants in Lake Tegel (Berlin, Germany): the impact of lake-specific mechanisms. Environmental Earth Sciences, 2016, 75, 1.	2.7	14

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55	Turbulence in the stratified boundary layer under ice: observations from Lake Baikal and a new similarity model. Hydrology and Earth System Sciences, 2020, 24, 1691-1708.	4.9	13
56	A mesoscale vortex in a small stratified lake. Environmental Fluid Mechanics, 2008, 8, 349-366.	1.6	12
57	New profiling and mooring records help to assess variability of Lake Issyk-Kul and reveal unknown features of its thermohaline structure. Hydrology and Earth System Sciences, 2018, 22, 6279-6295.	4.9	11
58	Lakeâ€Atmosphere Heat Flux Dynamics of a Thermokarst Lake in Arctic Siberia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5222-5239.	3.3	10
59	Methane hydrate emergence from Lake Baikal: direct observations, modelling, and hydrate footprints in seasonal ice cover. Scientific Reports, 2019, 9, 19361.	3.3	10
60	The extent and variability of stormâ€induced temperature changes in lakes measured with longâ€ŧerm and highâ€frequency data. Limnology and Oceanography, 2021, 66, 1979-1992.	3.1	10
61	Surface seiches in Flathead Lake. Hydrology and Earth System Sciences, 2015, 19, 2605-2615.	4.9	9
62	Variation of bacterial communities along the vertical gradient in Lake Issyk Kul, Kyrgyzstan. Environmental Microbiology Reports, 2021, 13, 337-347.	2.4	9
63	Periodic convection within littoral lake sediments on the background of seicheâ€driven oxygen fluctuations. Limnology & Oceanography Fluids & Environments, 2014, 4, 17-33.	1.7	8
64	The world's largest heliothermal lake newly formed in the Aral Sea basin. Environmental Research Letters, 2021, 16, 115009.	5.2	8
65	A study of heat transport at the ice base and structure of the under-ice water layer in Southern Baikal. Water Resources, 2017, 44, 428-441.	0.9	7
66	Thermal Responses of the Largest Freshwater Lake in the Tibetan Plateau and Its Nearby Saline Lake to Climate Change. Remote Sensing, 2022, 14, 1774.	4.0	7
67	Effects of water column processes on the use of sediment traps to measure zooplankton non-predatory mortality: a mathematical and empirical assessment. Journal of Plankton Research, 2018, 40, 91-106.	1.8	6
68	An Automatic Method to Detect Lake Ice Phenology Using MODIS Daily Temperature Imagery. Remote Sensing, 2021, 13, 2711.	4.0	6
69	Changing Pattern of Water Level Trends in Eurasian Endorheic Lakes as a Response to the Recent Climate Variability. Remote Sensing, 2021, 13, 3705.	4.0	6
70	A low ost underwater particle tracking velocimetry system for measuring in situ particle flux and sedimentation rate in lowâ€ŧurbulence environments. Limnology and Oceanography: Methods, 2019, 17, 665-681.	2.0	5
71	Modeling reservoir surface temperatures for regional and global climate models: a multi-model study on the inflow and level variation effects. Geoscientific Model Development, 2022, 15, 173-197.	3.6	4
72	Autonomous System for Lake Ice Monitoring. Sensors, 2021, 21, 8505.	3.8	4

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73	Numerical Modeling of Vertical Distribution of Living and Dead Copepods Arctodiaptomus salinus in Salt Lake Shira. Contemporary Problems of Ecology, 2018, 11, 543-550.	0.7	2
74	Lake Ice Formation and Melt. Under-Ice Dynamics. , 2022, , 534-545.		1
75	Sources and scales of near-bottom turbulent mixing in large meromictic Lake Iseo. Journal of Great Lakes Research, 2020, 46, 1581-1594.	1.9	1