## Deep-water renewal and biological production in Lake

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Citation Report

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#	Article	IF	CITATIONS
1	Slow renewal of deep waters. Nature, 1991, 349, 654-655.	27.8	3
2	Convection in Lake Baikal: An Example of Thermobaric Instability. Elsevier Oceanography Series, 1991, , 215-228.	0.1	24
4	The major and minor element geochemistry of Lake Baikal. Limnology and Oceanography, 1991, 36, 413-423.	3.1	135
5	Ice Patterns and Hydrothermal Plumes, Lake Baikal, Russia: Insights from Space Shuttle Hand-Held Photography. , 0, , .		0
6	Oxygen concentration profiles in soft sediment of Lake Baikal (Russia) near the Selenga delta. Freshwater Biology, 1993, 29, 343-349.	2.4	26
7	Mixing processes in Crater Lake, Oregon. Journal of Geophysical Research, 1993, 98, 18295-18307.	3.3	28
8	Sediment oxygen distribution in ancient lakes. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1993, 25, 793-794.	0.1	2
9	Depth distribution of oligochaetes in Lake Baikal (Siberia - Russia). Hydrobiologia, 1994, 278, 151-156.	2.0	5
10	A synthesis of post-glacial diatom records from Lake Baikal. Journal of Paleolimnology, 1994, 10, 213-252.	1.6	112
11	Radiocarbon chronology of Black Sea sediments. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 531-557.	1.4	143
12	Visual pigments and the photic environment: The cottoid fish of Lake Baikal. Vision Research, 1994, 34, 591-605.	1.4	166
13	Organochlorines in the water and biota of Lake Baikal, Siberia. Environmental Science & Technology, 1994, 28, 31-37.	10.0	84
14	Deep convection in a lake triggered by wind: Two-dimensional numerical experiments with a nonhydrostatic model. Journal of Oceanography, 1995, 51, 171-185.	1.7	5
15	Siliceous microfossil succession in the recent history of two basins in Lake Baikal, Siberia. Journal of Paleolimnology, 1995, 14, 165-184.	1.6	29
16	Mercury speciation in Lake Baikal. Water, Air, and Soil Pollution, 1995, 80, 539-551.	2.4	31
17	The visual pigments of fish. Progress in Retinal and Eye Research, 1995, 15, 1-31.	15.5	177
18	Physics and Chemistry of Lakes. , 1995, , .		101
19	Persistent Organochlorine Residues in Air, Water, Sediments, and Soils from the Lake Baikal Region, Russia. Environmental Science & Technology, 1995, 29, 792-801.	10.0	238

#	Article	IF	CITATIONS
20	Redox-Driven Cycling of Trace Elements in Lakes. , 1995, , 217-263.		60
21	A three-dimensional numerical model of deep ventilation in temperate lakes. Journal of Geophysical Research, 1995, 100, 22711.	3.3	19
22	Chlorofluorocarbons in the Hudson Estuary During Summer Months. Water Resources Research, 1995, 31, 2553-2560.	4.2	16
23	Internal waves, turbulence and mixing in stratified flows: a report on Euromech Colloquium 339. Journal of Fluid Mechanics, 1996, 314, 349-371.	3.4	12
24	Spectral tuning and molecular evolution of rod visual pigments in the species flock of cottoid fish in Lake Baikal. Vision Research, 1996, 36, 1217-1224.	1.4	129
25	Photosynthetic pigments and perylene in the sediments of southern basin of Lake Baikal. Organic Geochemistry, 1996, 24, 553-561.	1.8	40
26	AMS radiocarbon analyses from Lake Baikal, Siberia: Challanges of dating sediments from a large, oligotrophic lake. Quaternary Science Reviews, 1996, 15, 669-684.	3.0	138
27	Uranium-series disequilibrium, sedimentation, diatom frustules, and paleoclimate change in Lake Baikal. Earth and Planetary Science Letters, 1996, 142, 29-42.	4.4	66
28	Bottomwater formation due to hydrothermal activity in Frolikha Bay, Lake Baikal, eastern Siberia. Geochimica Et Cosmochimica Acta, 1996, 60, 961-971.	3.9	33
29	Airâ^'Water Gas Exchange of Organochlorine Compounds in Lake Baikal, Russia. Environmental Science & Technology, 1996, 30, 2975-2983.	10.0	82
30	Description of stability and neutrally buoyant transport in freshwater lakes. Limnology and Oceanography, 1996, 41, 1711-1724.	3.1	23
31	AULACOSEIRA SKVORTZOWII SP. NOV. (BACILLARIOPHYTA), A POORLY UNDERSTOOD DIATOM FROM LAKE BAIKAL, RUSSIA1. Journal of Phycology, 1996, 32, 165-175.	2.3	67
32	Organochlorine dynamics in the pelagic food web of lake baikal. Environmental Toxicology and Chemistry, 1996, 15, 1388-1400.	4.3	93
33	Oligochaeta and Aphanoneura in ancient lakes: a review. Hydrobiologia, 1996, 334, 63-72.	2.0	23
34	Thermal stratification, nutrient dynamics, and phytoplankton productivity during the onset of spring phytoplankton growth in Lake Baikal, Russia. Hydrobiologia, 1996, 331, 9-24.	2.0	44
35	Processes of deepâ€water renewal in Lake Baikal. Limnology and Oceanography, 1997, 42, 841-855.	3.1	98
36	Observations of a deep-mixing event in Crater Lake, Oregon. Limnology and Oceanography, 1997, 42, 299-306.	3.1	37
37	Minor and trace element chemistry of Lake Baikal, its tributaries, and surrounding hot springs. Limpology and Oceanography, 1997, 42, 329-345.	3.1	72

#	Article	IF	CITATIONS
38	<sup>13</sup> C and <sup>15</sup> N Abundances in the Sediment Core (VER 92/1-St-10-GC2) from Northern Lake Baikal. Isotopes in Environmental and Health Studies, 1997, 33, 277-286.	1.0	5
39	Modeling Transport Rates in Lake Baikal:Â Gas Exchange and Deep Water Renewal. Environmental Science & Technology, 1997, 31, 2973-2982.	10.0	38
40	Lake Baikal Record of Continental Climate Response to Orbital Insolation During the Past 5 Million Years. Science, 1997, 278, 1114-1117.	12.6	236
41	Reply to the Comment by R. Anderson on "Uranium-series disequilibrium, sedimentation, diatom frustules, and paleoclimate change in Lake Baikal†Earth and Planetary Science Letters, 1997, 148, 399-404.	4.4	9
42	Lignin phenols in sediments of Lake Baikal, Siberia: application to paleoenvironmental studies. Organic Geochemistry, 1997, 27, 153-172.	1.8	46
43	Lipid Accumulation and Fatty Acid Composition During Maturation of Three Pelagic Fish Species in Lake Baikal. Journal of Great Lakes Research, 1997, 23, 241-253.	1.9	27
44	Title is missing!. Journal of Paleolimnology, 1997, 18, 189-206.	1.6	21
45	Biogeochemical phosphorus mass balance for Lake Baikal, southeastern Siberia, Russia. Marine Geology, 1997, 139, 5-19.	2.1	13
46	Formation of ferric iron crusts in Quaternary sediments of Lake Baikal, Russia, and implications for paleoclimate. Marine Geology, 1997, 139, 21-46.	2.1	42
47	Molecular Evolution of the Cottoid Fish Endemic to Lake Baikal Deduced from Nuclear DNA Evidence. Molecular Phylogenetics and Evolution, 1997, 8, 415-422.	2.7	39
48	Title is missing!. Hydrobiologia, 1998, 367, 163-174.	2.0	47
49	Effect of the coriolis force on convection in a deep lake: Numerical experiment. Journal of Applied Mechanics and Technical Physics, 1998, 39, 593-599.	0.5	8
50	Stable carbon isotope ratios differentiate autotrophs supporting animal diversity in Lake Baikal. Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie, 1998, 321, 509-516.	0.8	11
51	Diatom succession trends in recent sediments from Lake Baikal and their relation to atmospheric pollution and to climate change. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 1011-1055.	4.0	67
52	Distribution of helium and tritium in Lake Baikal. Journal of Geophysical Research, 1998, 103, 12823-12838.	3.3	50
53	The Influence of Biogeochemical Processes on the Physics of Lakes. Coastal and Estuarine Studies, 0, , 591-612.	0.4	3
54	Oxygen and hydrogen isotope systematics of Lake Baikal, Siberia: Implications for paleoclimate studies. Limnology and Oceanography, 1998, 43, 1251-1261.	3.1	38
55	Geochronology of Lake Baikal from 210Pb and 137Cs radioisotopes. Applied Radiation and Isotopes, 1999, 50, 1105-1119.	1.5	25

	CITATION	Report	
#	Article	IF	CITATIONS
56	Oligochaeta from the abyssal zone of Lake Baikal (Siberia, Russia). Hydrobiologia, 1999, 406, 165-174.	2.0	21
57	Title is missing!. Hydrobiologia, 1999, 407, 123-129.	2.0	12
58	Mathematical modelling of Lake Baikal hydrodynamics. Hydrobiologia, 1999, 407, 37-43.	2.0	17
59	Stable isotope analyses of benthic organisms in Lake Baikal. Hydrobiologia, 1999, 411, 145-159.	2.0	56
60	From Limnology to Fisheries: Lake Tanganyika and Other Large Lakes. , 1999, , .		4
61	Response of Lake Baikal ecosystem to climate forcing and pCO2 change over the last glacial/interglacial transition. Earth and Planetary Science Letters, 1999, 172, 239-253.	4.4	60
62	Stable Isotope Ecology and Palaeodiet in the Lake Baikal Region of Siberia. Journal of Archaeological Science, 1999, 26, 651-659.	2.4	229
63	Stable isotope analyses of the pelagic food web in Lake Baikal. Limnology and Oceanography, 1999, 44, 502-511.	3.1	135
64	Comparison of calcium storage between a Baikalian gastropod and holarctic relatives. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 125, 273-283.	1.8	28
65	A numerical study of plankton population dynamics in a deep lake during the passage of the Spring thermal bar. Journal of Marine Systems, 2000, 26, 367-386.	2.1	20
66	on the vertical distribution of microorganisms in lake baikal during spring deep-water renewal. Microbiology, 2000, 69, 357-363.	1.2	11
67	Determination of bis(2-ethylhexyl) phthalate in water by high-performance liquid chromatography with direct on-column preconcentration. Journal of Analytical Chemistry, 2000, 55, 750-754.	0.9	12
68	A computer-assisted thin-section study of Lake Baikal sediments: a tool for understanding sedimentary processes and deciphering their climatic signal. International Journal of Earth Sciences, 2000, 89, 260-267.	1.8	26
69	Smallâ€scale turbulence and vertical mixing in Lake Baikal. Limnology and Oceanography, 2000, 45, 159-173.	3.1	69
71	Molecular-isotopic stratigraphy of long-chain n-alkanes in Lake Baikal Holocene and glacial age sediments. Organic Geochemistry, 2000, 31, 287-294.	1.8	102
72	A priori estimates of mixing and circulation in the hard-to-reach water body of Lake Vostok. Ocean Modelling, 2000, 2, 29-43.	2.4	62
73	Analysis of deep-water exchange in the Caspian Sea based on environmental tracers. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 621-654.	1.4	97
74	Palaeoenvironmental history of Lake Baikal during the last 23000 years. Palaeogeography, Palaeoclimatology, Palaeoecology, 2000, 157, 95-108.	2.3	91

ARTICLE IF CITATIONS # Vertical turbulent diffusion and upwelling in Lake Baikal estimated by inverse modeling of transient 75 3.3 11 tracers. Journal of Geophysical Research, 2000, 105, 3451-3464. A preliminary assessment of the geochemical dynamics of Issykâ€Kul Lake, Kirghizstan. Limnology and 3.1 Oceanography, 2001, 46, 713-718. Biogenic Silica Record of the Lake Baikal Response to Climatic Forcing during the Brunhes. Quaternary 77 1.7 108 Research, 2001, 55, 123-132. The Oxygen Cycle in Lake Baikal. Water Resources, 2001, 28, 502-508. 0.9 A Numerical Study of the Dynamics of the Riverine Thermal Bar in a Deep Lake. Environmental Fluid 79 1.6 22 Mechanics, 2001, 1, 311-332. P, As, Sb, Mo, and Other Elements in Sedimentary Fe/Mn Layers of Lake Baikal. Environmental Science & Technology, 2002, 36, 411-420. Spectral Tuning and Evolution of Short Wave-Sensitive Cone Pigments in Cottoid Fish from Lake 81 2.554 Baikalâ€. Biochemistry, 2002, 41, 6019-6025. Deep-water renewal in Lake Issyk-Kul. Geophysical Research Letters, 2002, 29, 124-1-124-4. 21 83 Transit time distributions in Lake Issyk-Kul. Geophysical Research Letters, 2002, 29, 84-1-84-4. 4.0 33 84 Noble Gases in Lakes and Ground Waters. Reviews in Mineralogy and Geochemistry, 2002, 47, 615-700. 4.8 261 Lake Issyk-Kul: Its Natural Environment., 2002, , . 85 10 Scales and structures of large lake eddies. Geophysical Research Letters, 2002, 29, 30-1-30-4. 86 38 A model of the wind-driven circulation in Lake Baikal. Dynamics of Atmospheres and Oceans, 2002, 35, 87 1.8 23 131-152. 14. Noble Gases in Lakes and Ground Waters., 2002, , 615-700. 56 Distribution of dissolved organic carbon in Lake Baikal and its watershed. Limnology, 2002, 3, 159-168. 89 1.5 73 Simultaneous determination of sulfur hexafluoride and three chlorofluorocarbons in water and air. 2.3 Marine Chemistry, 2002, 78, 137-148. Comment on the Paper "Biogenic Silica Record of the Lake Baikal Response to Climatic Forcing During 91 the Brunhes†by A. A. Prokopenko, E. B. Karabanov, D. F. Williams, M. I. Kuzmin, N. J. Shakleton, S. J. 1.7 5 Crowhurst, J. A. Peck, A. N. Gvozdkov, and J. W. King. Quaternary Research, 2002, 57, 282-282. A three-dimensional general circulation model of the surface layers of Lake Baikal. Hydrobiologia, 2002, 487, 95-110.

#	Article	IF	CITATIONS
93	The physical structure and dynamics of a deep, meromictic crater lake (Lac Pavin, France). Hydrobiologia, 2002, 487, 111-136.	2.0	57
94	Water Exchange between Bed Depressions in Baikal. Water Resources, 2003, 30, 623-626.	0.9	3
95	Seasonal dynamics of primary production in the pelagic zone of southern Lake Baikal. Limnology, 2003, 4, 53-62.	1.5	25
96	Photosynthetic potential of phytoplankton in the deep water of Lake Baikal, Russia. Limnology, 2003, 4, 113-117.	1.5	7
97	Preparation and assessment of a candidate reference sample of Lake Baikal deep water. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 277-288.	2.9	25
98	Mapping of uranium and phosphorus in sediments of Lakes Baikal and Issyk-Kul by neutron-induced autoradiography. Radiation Measurements, 2003, 36, 567-579.	1.4	7
99	Relationships among tracer ages. Journal of Geophysical Research, 2003, 108, .	3.3	168
100	Long Continental Records from Lake Baikal. , 2003, , .		15
101	Large-Scale Climatic Controls on Lake Baikal Ice Cover. Journal of Climate, 2003, 16, 3186-3199.	3.2	76
103	Quaternary Sedimentation and Subsidence History of Lake Baikal, Siberia, Based on Seismic Stratigraphy and Coring. Journal of Sedimentary Research, 2003, 73, 941-956.	1.6	46
104	Worldwide Occurrence and Fate of Chlorofluorocarbons in Groundwater. Critical Reviews in Environmental Science and Technology, 2003, 33, 1-29.	12.8	70
105	Deepâ€water renewal in Lake Issykâ€Kul driven by differential cooling. Limnology and Oceanography, 2003, 48, 1419-1431.	3.1	44
106	Glacial-interglacial changes in organic carbon, nitrogen and sulfur accumulation in Lake Baikal sediment over the past 250kyr. Geochemical Journal, 2003, 37, 493-502.	1.0	15
107	Residence time and physical processes in lakes. Journal of Limnology, 2003, 62, 1.	1.1	118
109	Biological and environmental changes in Lake Baikal during the late Quaternary inferred from carbon, nitrogen and sulfur isotopes. Earth and Planetary Science Letters, 2004, 222, 285-299.	4.4	47
110	Absence of a regional surface thermal high in the Baikal rift; new insights from detailed contouring of heat flow anomalies. Tectonophysics, 2004, 383, 217-241.	2.2	27
111	Deglacial methane emission signals in the carbon isotopic record of Lake Baikal. Earth and Planetary Science Letters, 2004, 218, 135-147.	4.4	43
112	Cold intrusions in Lake Baikal: Direct observational evidence for deep-water renewal. Limnology and Oceanography, 2005, 50, 184-196.	3.1	70

#	Article	IF	CITATIONS
113	Influence of climate fluctuation on clay formation in the Baikal drainage basin. Journal of Paleolimnology, 2005, 33, 105-121.	1.6	16
114	Regional, vertical and seasonal distribution of phytoplankton and photosynthetic pigments in Lake Baikal. Journal of Plankton Research, 2005, 27, 793-810.	1.8	52
116	Late glacial and Holocene environmental change in the Lake Baikal region documented by oxygen isotopes from diatom silica. Global and Planetary Change, 2005, 46, 221-233.	3.5	70
117	Vivianite formation and distribution in Lake Baikal sediments. Global and Planetary Change, 2005, 46, 315-336.	3.5	78
118	High-resolution diatom/clay record in Lake Baikal from grey scale, and magnetic susceptibility over Holocene and Termination I. Global and Planetary Change, 2005, 46, 299-313.	3.5	21
119	Flux of lipophilic photosynthetic pigments to the surface sediments of Lake Baikal. Global and Planetary Change, 2005, 46, 29-44.	3.5	18
120	Internal carbon and nutrient cycling in Lake Baikal: sedimentation, upwelling, and early diagenesis. Global and Planetary Change, 2005, 46, 101-124.	3.5	78
121	Detrital input and early diagenesis in sediments from Lake Baikal revealed by rock magnetism. Global and Planetary Change, 2005, 46, 145-166.	3.5	85
122	Lipid and lignin/cutin compounds in Lake Baikal sediments over the last 37 kyr: implications for glacial–interglacial palaeoenvironmental change. Organic Geochemistry, 2005, 36, 327-347.	1.8	48
123	Isotopes in Lake Studies: A Historical Perspective. , 2005, , 139-150.		19
124	Microscale mineralization pathways in surface sediments: A chemical sensor study in Lake Baikal. Limnology and Oceanography, 2006, 51, 1342-1354.	3.1	40
125	SEASONAL MOVEMENTS AND DIVE PATTERNS OF JUVENILE BAIKAL SEALS, <i>PHOCA SIBIRICA</i> . Marine Mammal Science, 1996, 12, 528-542.	1.8	41
126	Assessing the vulnerability of endemic diatom species in Lake Baikal to predicted future climate change: a multivariate approach. Global Change Biology, 2006, 12, 2297-2315.	9.5	36
127	Vorticity cumulation in a rectangular tank with a sloping bottom after a sharp deceleration in rotation. Fluid Dynamics, 2006, 41, 938-948.	0.9	2
128	Uranium and Thorium Isotope Distribution in an Offshore Bottom Sediment Core of the Selenga Delta, Lake Baikal, Siberia. Journal of Paleolimnology, 2006, 35, 807-818.	1.6	25
129	Nutrient limitation of the primary production of phytoplankton in Lake Baikal. Limnology, 2006, 7, 225-229.	1.5	13
130	Sources and sinks of methane in Lake Baikal: A synthesis of measurements and modeling. Limnology and Oceanography, 2007, 52, 1824-1837.	3.1	52
131	A time series of environmental tracer data from deep meromictic Lake Lugano, Switzerland. Limnology and Oceanography, 2007, 52, 257-273.	3.1	29

#	Article	IF	CITATIONS
132	Elements of the iron and manganese cycles in Lake Baikal. Geochemistry International, 2007, 45, 918-925.	0.7	6
133	The paleoclimatology of Lake Baikal: A diatom synthesis and prospectus. Earth-Science Reviews, 2007, 82, 181-215.	9.1	58
134	Present and past bio-available phosphorus budget in the ultra-oligotrophic Lake Brienz. Aquatic Sciences, 2007, 69, 227-239.	1.5	28
135	Reconstructing hydrological variability in Lake Baikal during MIS 11: an application of oxygen isotope analysis of diatom silica. Journal of Quaternary Science, 2008, 23, 365-374.	2.1	26
136	Stratification of lakes. Reviews of Geophysics, 2008, 46, .	23.0	464
137	Lake Baikal deepwater renewal mystery solved. Geophysical Research Letters, 2008, 35, .	4.0	45
138	Stratification of very deep, thermally stratified lakes. Geophysical Research Letters, 2008, 35, .	4.0	33
139	Vertical Distribution of Lead in Lake Baikal Water Measured by ID-ICP-MS. Journal of Nuclear Science and Technology, 2008, 45, 65-68.	1.3	2
140	Resting stages and ecology of the planktonic diatom Aulacoseira skvortzowii in Lake Baikal. Limnology and Oceanography, 2008, 53, 1125-1136.	3.1	67
141	Determination of 56 Elements in Lake Baikal Water by High-Resolution ICP-MS with the Aid of a Tandem Preconcentration Method. Analytical Sciences, 2008, 24, 1513-1517.	1.6	7
142	Chapter 5 Radionuclides as Tracers and Timers in Surface and Groundwater. Radioactivity in the Environment, 2009, , 139-230.	0.2	4
143	Baikal neutrino telescope—An underwater laboratory for astroparticle physics and environmental studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 282-288.	1.6	6
144	The BAIKAL neutrino experiment—Physics results and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 14-20.	1.6	27
145	High energy neutrino acoustic detection activities in Lake Baikal: Status and results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S130-S135.	1.6	6
146	Optical-thermal fronts under ice cover of Lake Baikal and their connection with the bottom water renewal. Atmospheric and Oceanic Optics, 2009, 22, 227-233.	1.3	1
147	Modern climate changes and deep water temperature of Lake Baikal. Doklady Earth Sciences, 2009, 427, 804-808.	0.7	8
148	A new age model for the sediment cores from Academician ridge (Lake Baikal) based on high-time-resolution AMS 14C data sets over the last 30Âkyr: Paleoclimatic and environmental implications. Earth and Planetary Science Letters, 2009, 286, 347-354.	4.4	27
149	Climate Change and the World's "Sacred Seaâ€â€"Lake Baikal, Siberia. BioScience, 2009, 59, 405-417.	4.9	145

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#	Article	IF	Citations
150	Currents in Stratified Water Bodies 1: Density-Driven Flows. , 2009, , 530-538.		6
151	Deep water temperature variation of Lake Baikal during 1972–2007. Geography and Natural Resources, 2009, 30, 258-264.	0.3	2
152	Mixing and its effects on biogeochemistry in the persistently stratified, deep, tropical Lake Matano, Indonesia. Limnology and Oceanography, 2010, 55, 763-776.	3.1	36
153	Gas seeps in Lake Baikal—detection, distribution, and implications for water column mixing. Geo-Marine Letters, 2010, 30, 399-409.	1.1	51
154	Simulation of Water Age and Residence Time in New York Bight. Journal of Physical Oceanography, 2010, 40, 965-982.	1.7	67
155	Impact of lake level change on deepâ€water renewal and oxic conditions in deep saline Lake Van, Turkey. Water Resources Research, 2010, 46, .	4.2	44
156	Uranium isotopes as proxies of the environmental history of the Lake Baikal watershed (East Siberia) during the past 150ka. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 294, 16-29.	2.3	20
157	Differential cooling drives largeâ€scale convective circulation in Lake Tanganyika. Limnology and Oceanography, 2011, 56, 910-926.	3.1	50
158	Specific features of cold bottom intrusion in Baikal according to observations in 1993–2009. Water Resources, 2011, 38, 169-174.	0.9	3
159	Renewal of deep waters of Lake Baikal revisited. Doklady Earth Sciences, 2011, 438, 652-655.	0.7	7
161	Freshening of near-bottom waters in Lake Baikal triggered by the Mw6.2 Kultuk earthquake of August 2008. Geo-Marine Letters, 2012, 32, 453.	1.1	3
162	Thermodynamic and convective properties of Baikal waters in the region of maximum depths of lake Baikal based on observations from the manned submersible MIR-2 during the period of the spring thermal bar. Doklady Earth Sciences, 2012, 446, 1223-1228.	0.7	1
163	The joint effects of riverine, thermal, and wind forcing on a temperate fjord lake: Quesnel Lake, Canada. Journal of Great Lakes Research, 2012, 38, 540-549.	1.9	17
164	Physics of seasonally ice-covered lakes: a review. Aquatic Sciences, 2012, 74, 659-682.	1.5	284
165	Higher Mass-Independent Isotope Fractionation of Methylmercury in the Pelagic Food Web of Lake Baikal (Russia). Environmental Science & Technology, 2012, 46, 5902-5911.	10.0	87
166	Molecular ecology and adaptation of visual photopigments in craniates. Molecular Ecology, 2012, 21, 3121-3158.	3.9	169
167	Hydrological instability during the Last Interglacial in central Asia: a new diatom oxygen isotope record from Lake Baikal. Quaternary Science Reviews, 2013, 66, 45-54.	3.0	20
168	Thermobaric stratification in very deep Norwegian freshwater lakes. Journal of Great Lakes Research, 2013, 39, 690-695.	1.9	17

#	Article	IF	CITATIONS
169	Deep water renewal in Lake Baikal: A model for longâ€ŧerm analyses. Journal of Geophysical Research: Oceans, 2013, 118, 6717-6733.	2.6	19
170	Oxidation of methane in the water column of Lake Baikal. Doklady Earth Sciences, 2013, 451, 784-786.	0.7	9
172	A freshwater old carbon offset in Lake Baikal, Siberia and problems with the radiocarbon dating of archaeological sediments: Evidence from the Sagan-Zaba II site. Quaternary International, 2013, 290-291, 110-125.	1.5	34
173	Dissolved Organic Matter in Natural Waters. Environmental Science and Engineering, 2013, , 1-137.	0.2	28
174	Photoinduced and Microbial Degradation of Dissolved Organic Matter in Natural Waters. Environmental Science and Engineering, 2013, , 273-364.	0.2	5
175	Fluorescent Dissolved Organic Matter in Natural Waters. Environmental Science and Engineering, 2013, , 429-559.	0.2	22
176	Modeling a Proposed Quarry Reservoir for Raw Water Storage in Atlanta, Georgia. Journal of Environmental Engineering, ASCE, 2013, 139, 70-78.	1.4	12
177	Freshwater Reservoir Offsets Investigated Through Paired Human-Faunal <sup>14</sup> C Dating and Stable Carbon and Nitrogen Isotope Analysis at Lake Baikal, Siberia. Radiocarbon, 2014, 56, 991-1008.	1.8	46
178	Biological nitrate utilization in south Siberian lakes (Baikal and Hovsgol) during the Last Glacial period: the influence of climate change on primary productivity. Quaternary Science Reviews, 2014, 90, 69-79.	3.0	18
179	Early diagenetic processes generate iron and manganese oxide layers in the sediments of Lake Baikal, Siberia. Environmental Sciences: Processes and Impacts, 2014, 16, 879-889.	3.5	37
180	Thermodynamic parameters of water of Subglacial Lake Vostok, Eastern Antarctica. Doklady Earth Sciences, 2014, 454, 163-168.	0.7	2
181	A comparative study between present and palaeo-heat flow in the Qiangtang Basin, northern Tibet, China. Marine and Petroleum Geology, 2014, 57, 345-358.	3.3	7
182	Ventilation and dissolved oxygen cycle in L ake S uperior: Insights from a numerical model. Geochemistry, Geophysics, Geosystems, 2015, 16, 3097-3110.	2.5	9
183	Drivers of deepâ€water renewal events observed over 13 years in the <scp>S</scp> outh <scp>B</scp> asin of <scp>L</scp> ake <scp>B</scp> aikal. Journal of Geophysical Research: Oceans, 2015, 120, 1508-1526.	2.6	20
184	Concentration of nutrients in the water of Southern Baikal in summer. , 2015, , .		2
185	Identification of a putatively multixenobiotic resistance related Abcb1 transporter in amphipod species endemic to the highly pristine Lake Baikal. Environmental Science and Pollution Research, 2015, 22, 5453-5468.	5.3	5
186	Insights into the transfer of silicon isotopes into the sediment record. Biogeosciences, 2016, 13, 147-157.	3.3	25
187	Lake Baikal amphipods under climate change: thermalÂconstraintsÂand ecological consequences. Ecosphere, 2016, 7, e01308.	2.2	49

#	Article	IF	CITATIONS
188	Ocean Convective Available Potential Energy. Part I: Concept and Calculation. Journal of Physical Oceanography, 2016, 46, 1081-1096.	1.7	16
189	Ocean Convective Available Potential Energy. Part II: Energetics of Thermobaric Convection and Thermobaric Cabbeling. Journal of Physical Oceanography, 2016, 46, 1097-1115.	1.7	17
190	Natural and forced under-ice convection. , 2016, , .		2
191	The influence of deep convection on aeration of the bottom zone in Baikal. Geography and Natural Resources, 2016, 37, 212-219.	0.3	3
192	Net removal of dissolved organic carbon in the anoxic waters of the Black Sea. Marine Chemistry, 2016, 183, 13-24.	2.3	24
193	Bacterial community composition in the water column of the deepest freshwater Lake Baikal as determined by next-generation sequencing. FEMS Microbiology Ecology, 2016, 92, fiw094.	2.7	62
194	Methods for Monitoring the Chemical Composition of Lake Baikal Water. Springer Water, 2016, , 113-132.	0.3	11
195	Nitrogen and phosphorus colimitation of phytoplankton in Lake Baikal: Insights from a spatial survey and nutrient enrichment experiments. Limnology and Oceanography, 2017, 62, 1383-1392.	3.1	33
196	Physical Features of Meromictic Lakes: Stratification and Circulation. Ecological Studies, 2017, , 15-34.	1.2	26
197	Constraining modernâ€day silicon cycling in Lake Baikal. Global Biogeochemical Cycles, 2017, 31, 556-574.	4.9	19
198	Uptake Kinetics and Subcellular Compartmentalization Explain Lethal but Not Sublethal Effects of Cadmium in Two Closely Related Amphipod Species. Environmental Science & Technology, 2017, 51, 7208-7218.	10.0	16
199	High-throughput sequencing of microbial eukaryotes in Lake Baikal reveals ecologically differentiated communities and novel evolutionary radiations. FEMS Microbiology Ecology, 2017, 93, .	2.7	35
200	Numerical simulation of water exchange processes in Lake Baikal. Water Resources, 2017, 44, 453-462.	0.9	5
201	Background composition of pore waters in Lake Baikal bottom sediments. Journal of Great Lakes Research, 2017, 43, 1030-1043.	1.9	20
202	Current chemical composition of Lake Baikal water. Inland Waters, 2017, 7, 250-258.	2.2	57
203	Seasonal variations in the vertical structure of pelagian water stratum in the Southern Baikal. Water Resources, 2017, 44, 417-427.	0.9	7
204	Spatial differences in dissolved silicon utilization in Lake Baikal, Siberia: Examining the impact of high diatom biomass events and eutrophication. Limnology and Oceanography, 2018, 63, 1562-1578.	3.1	10
205	Lake Baikal's response to remote earthquakes: Lake-level fluctuations and near-bottom water layer temperature change. Marine and Petroleum Geology, 2018, 89, 604-614.	3.3	8

#	Article	IF	CITATIONS
206	Lake Baikal isotope records of Holocene Central Asian precipitation. Quaternary Science Reviews, 2018, 189, 210-222.	3.0	26
207	Genomes of Novel Microbial Lineages Assembled from the Sub-Ice Waters of Lake Baikal. Applied and Environmental Microbiology, 2018, 84, .	3.1	91
208	Diagenesis of amino compounds in water column and sediment of Lake Baikal. Organic Geochemistry, 2018, 115, 67-77.	1.8	12
209	Environmental characteristics and changes of sediment pore water dissolved organic matter in four Chinese lakes. Environmental Science and Pollution Research, 2018, 25, 2783-2804.	5.3	16
210	Natural ring structures on the Baikal ice cover: analysis of experimental data and mathematical modeling. Russian Geology and Geophysics, 2018, 59, 1514-1525.	0.7	5
211	The fate of Lake Baikal: how climate change may alter deep ventilation in the largest lake on Earth. Climatic Change, 2018, 150, 181-194.	3.6	23
212	Co-occurrence Networks Among Bacteria and Microbial Eukaryotes of Lake Baikal During a Spring Phytoplankton Bloom. Microbial Ecology, 2019, 77, 96-109.	2.8	97
213	Spatial and Historical Occurrence, Sources, and Potential Toxicological Risk of Polycyclic Aromatic Hydrocarbons in Sediments of the Largest Chinese Deep Lake. Archives of Environmental Contamination and Toxicology, 2019, 77, 501-513.	4.1	9
214	Environmental studies in Lake Baikal: basic facts and perspectives for interdisciplinary research. EPJ Web of Conferences, 2019, 207, 09001.	0.3	2
215	Dynamics of dissolved greenhouse gas response to seasonal water mixing in subtropical reservoirs. Environmental Monitoring and Assessment, 2019, 191, 639.	2.7	5
216	Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods. BMC Genomics, 2019, 20, 712.	2.8	17
217	The role of base level, watershed attribute and sediment accumulation in the landscape and tectonic evolution of the Circum-Tibetan Plateau Basin and Orogen System. Journal of Asian Earth Sciences, 2019, 186, 104053.	2.3	14
218	Biogeochemical processes at the Krasniy Yar seepage area (Lake Baikal) and a comparison with oceanic seeps. Geo-Marine Letters, 2019, 39, 59-75.	1.1	7
219	Bacterial Communities in Areas of Oil and Methane Seeps in Pelagic of Lake Baikal. Microbial Ecology, 2019, 78, 269-285.	2.8	16
220	Fluid migrations at the Krasny Yar methane seep of Lake Baikal according to geochemical data. Journal of Great Lakes Research, 2020, 46, 123-131.	1.9	7
221	Changing nutrient cycling in Lake Baikal, the world's oldest lake. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27211-27217.	7.1	19
222	New viral biogeochemical roles revealed through metagenomic analysis of Lake Baikal. Microbiome, 2020, 8, 163.	11.1	43
223	Microorganisms of Lake Baikal—the deepest and most ancient lake on Earth. Applied Microbiology and Biotechnology, 2020, 104, 6079-6090.	3.6	12

#	Article	IF	CITATIONS
224	Estimates of the remineralization and burial of organic carbon in Lake Baikal sediments. Journal of Great Lakes Research, 2020, 46, 102-114.	1.9	14
225	Microbiome of the deep Lake Baikal, a unique oxic bathypelagic habitat. Limnology and Oceanography, 2020, 65, 1471-1488.	3.1	60
226	Proteomics reveals sex-specific heat shock response of Baikal amphipod Eulimnogammarus cyaneus. Science of the Total Environment, 2021, 763, 143008.	8.0	4
227	Lake Ice Formation and Melt. Under-Ice Dynamics. , 2022, , 534-545.		1
228	Dissolved organic matter in large lakes: a key but understudied component of the carbon cycle. Biogeochemistry, 2023, 164, 295-318.	3.5	13
229	Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species. Scientific Reports, 2021, 11, 4562.	3.3	7
230	Persistence of bioconvectionâ€induced mixed layers in a stratified lake. Limnology and Oceanography, 2021, 66, 1531-1547.	3.1	10
231	Annelids in Extreme Aquatic Environments: Diversity, Adaptations and Evolution. Diversity, 2021, 13, 98.	1.7	23
232	Extended Evaluation of Viral Diversity in Lake Baikal through Metagenomics. Microorganisms, 2021, 9, 760.	3.6	15
233	Different ways to play it cool: Transcriptomic analysis sheds light on different activity patterns of three amphipod species under longâ€ŧerm cold exposure. Molecular Ecology, 2021, 30, 5735-5751.	3.9	11
234	Seasonal Succession and Coherence Among Bacteria and Microeukaryotes in Lake Baikal. Microbial Ecology, 2022, 84, 404-422.	2.8	12
235	The Ecology of Visual Pigments. Novartis Foundation Symposium, 1999, 224, 21-43.	1.1	2
237	Glacial/Interglacial Changes in the Carbon Cycle of Lake Baikal. , 2003, , 163-185.		3
238	Mercury Distribution and Fluxes in Lake Baikal. , 1996, , 303-315.		12
239	Using Transient Conservative and Environmental Tracers to Study Water Exchange in Lake Issyk-Kul. , 2002, , 89-100.		3
240	Paleoenvironmental changes in the Eurasian continent interior inferred from chemical elements in sediment cores (BDP96/1, BDP96/2) from Lake Baikal. , 2000, , 127-135.		4
241	Nonlinear stability near the temperature of maximum density and thermobaric instability in lake baikal during summer stratification. , 2000, , 214-228.		2
242	Some speculations on the possibility of changes in deep-water renewal in Lake Baikal and their consequences. , 2000, , 273-280.		3

#	Article	IF	CITATIONS
243	The Structure of Microbial Community and Degradation of Diatoms in the Deep Near-Bottom Layer of Lake Baikal. PLoS ONE, 2013, 8, e59977.	2.5	29
244	Silica-scaled chrysophytes of Lake Baikal. Acta Biologica Sibirica, 2017, 3, 47.	0.2	6
245	Current State of Deep Oil Seepage Near Cape Gorevoi Utes (Central Baikal). Russian Geology and Geophysics, 2020, 61, 1007-1014.	0.7	4
247	Intersexual differences of heat shock response between two amphipods ( <i>Eulimnogammarus) Tj ETQq1 1 0.78</i>	4314 rgB <sup>-</sup> 2.0	Г /Qyerlock 1
248	Inorganic Characteristics of Surface Sediment from Lake Baikal: Natural Elemental Composition, Redox Condition, and Pb Contamination. , 2003, , 313-327.		0
251	Mercury Speciation in Lake Baikal. , 1995, , 539-551.		9
252	Oligochaeta and Aphanoneura in ancient lakes: a review. , 1996, , 63-72.		6
254	Macrozooplankton communities in Lake Tanganyika indicate food chain differences between the northern part and the main basins. , 1999, , 123-129.		1
255	Oligochaeta from the abyssal zone of Lake Baikal (Siberia, Russia). , 1999, , 165-174.		4
259	Thermobaric Processes Both Drive and Constrain Seasonal Ventilation in Deep Great Slave Lake, Canada. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006288.	2.8	6
260	The Position of Gas Hydrates in the Sedimentary Strata and in the Geological Structure of Lake Baikal. , 2022, , 465-471.		3
261	Source to sink analysis of weathering fluxes in Lake Baikal and its watershed based on riverine fluxes, elemental lake budgets, REE patterns, and radiogenic (Nd, Sr) and 10Be/9Be isotopes. Geochimica Et Cosmochimica Acta, 2022, 321, 133-154.	3.9	4
262	Changes in the Heat Content of Water Column in the Slope Area of the Southern Basin of Lake Baikal in the 21st Century. Water (Switzerland), 2022, 14, 348.	2.7	5
263	Modeling biogeochemical processes in a freshwater lake during the spring thermal bar. Ecological Modelling, 2022, 465, 109877.	2.5	0
264	The Current Oxygen and Hydrogen Isotopic Status of Lake Baikal. Water (Switzerland), 2021, 13, 3476.	2.7	0
265	Warming overcomes dispersal-limitation to promote non-native expansion in Lake Baikal. Journal of Great Lakes Research, 2022, , .	1.9	0
266	Southern Hemisphere Westerly Winds have modulated the formation of laminations in sediments in Lago Fagnano (Tierra del Fuego, Argentina) over the past 6.3 ka. Boreas, 2023, 52, 124-138.	2.4	0
267	Currents in Stratified Water Bodies 1: Density-Driven Flows. , 2009, , 525-533.		0

#	Article	IF	CITATIONS
268	Postglacial adaptations enabled colonization and quasi-clonal dispersal of ammonia-oxidizing archaea in modern European large lakes. Science Advances, 2023, 9, .	10.3	12
269	Annual patterns of stratification, mixing and ventilation in long, deep, seasonally ice-covered François lake, British Columbia, Canada. Frontiers in Earth Science, 0, 11, .	1.8	2
270	Interannual Variability of Intrusions and Their Association with Changes in Atmospheric Circulation During 1993‒2021. Springer Proceedings in Earth and Environmental Sciences, 2023, , 167-174.	0.4	0
271	Lake Water Body in the Ice Season. , 2023, , 235-275.		Ο
272	Increase in the water level of Lake Baikal as a possible cause of changes in methane flux and concentrations in the water column. Environmental Earth Sciences, 2023, 82, .	2.7	0
273	Numerical Simulation of Radiatively Driven Convection in a Small Ice-Covered Lake with a Lateral Pressure Gradient. Water (Switzerland), 2023, 15, 3953.	2.7	Ο
274	Study of Interannual Variability of the Winter Mesothermal Temperature Maximum Layer in Southern Baikal. Water (Switzerland), 2024, 16, 21.	2.7	0
275	Extracting paleo-weathering signals from authigenic phases in lake sediments: A case-study of Lake Baikal. Chemical Geology, 2024, 654, 122054.	3.3	ο