

Bernhard Wehrli

List of Publications by Year in descending order

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189
papers

14,389
citations

20817

60
h-index

22166

113
g-index

222
all docs

222
docs citations

222
times ranked

16884
citing authors

#	ARTICLE	IF	CITATIONS
1	The Challenge of Micropollutants in Aquatic Systems. <i>Science</i> , 2006, 313, 1072-1077.	12.6	2,873
2	Global Water Pollution and Human Health. <i>Annual Review of Environment and Resources</i> , 2010, 35, 109-136.	13.4	1,381
3	Vanadyl in natural waters: Adsorption and hydrolysis promote oxygenation. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 69-77.	3.9	333
4	Organic carbon burial efficiency in lake sediments controlled by oxygen exposure time and sediment source. <i>Limnology and Oceanography</i> , 2009, 54, 2243-2254.	3.1	323
5	The coordination chemistry of weathering: III. A generalization on the dissolution rates of minerals. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 1969-1981.	3.9	301
6	Anaerobic ammonium oxidation in a tropical freshwater system (Lake Tanganyika). <i>Environmental Microbiology</i> , 2006, 8, 1857-1863.	3.8	278
7	Extreme Methane Emissions from a Swiss Hydropower Reservoir: Contribution from Bubbling Sediments. <i>Environmental Science & Technology</i> , 2010, 44, 2419-2425.	10.0	235
8	Spatial Heterogeneity of Methane Ebullition in a Large Tropical Reservoir. <i>Environmental Science & Technology</i> , 2011, 45, 9866-9873.	10.0	205
9	Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. <i>Biogeosciences</i> , 2014, 11, 1215-1259.	3.3	175
10	Benthic chamber and profiling landers in oceanography – A review of design, technical solutions and functioning. <i>Progress in Oceanography</i> , 1995, 35, 253-294.	3.2	164
11	Ten Years of Artificial Mixing and Oxygenation: No Effect on the Internal Phosphorus Loading of Two Eutrophic Lakes. <i>Environmental Science & Technology</i> , 1998, 32, 3659-3665.	10.0	151
12	<i>Crenothrix</i> are major methane consumers in stratified lakes. <i>ISME Journal</i> , 2017, 11, 2124-2140.	9.8	146
13	Dissolution-precipitation behaviour of ettringite, monosulfate, and calcium silicate hydrate. <i>Cement and Concrete Research</i> , 2004, 34, 341-348.	11.0	135
14	Vertical Distribution of Methanogens in the Anoxic Sediment of Rotsee (Switzerland). <i>Applied and Environmental Microbiology</i> , 1999, 65, 2402-2408.	3.1	134
15	Retention of Sediments and Nutrients in the Iron Gate I Reservoir on the Danube River. <i>Biogeochemistry</i> , 2005, 76, 539-565.	3.5	130
16	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.	2.5	130
17	Extreme organic carbon burial fuels intense methane bubbling in a temperate reservoir. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	130
18	Solute transfer across the sediment surface of a eutrophic lake: I. Porewater profiles from dialysis samplers. <i>Aquatic Sciences</i> , 1997, 59, 1-25.	1.5	125

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19	Limitations of Using $\delta^{18}\text{O}$ for the Source Identification of Nitrate in Agricultural Soils. <i>Environmental Science & Technology</i> , 2001, 35, 1840-1844.	10.0	124
20	Arsenic release from paddy soils during monsoon flooding. <i>Nature Geoscience</i> , 2010, 3, 53-59.	12.9	123
21	Comparative effects of zinc oxide nanoparticles and dissolved zinc on zebrafish embryos and leuthero-embryos: Importance of zinc ions. <i>Science of the Total Environment</i> , 2014, 476-477, 657-666.	8.0	123
22	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. <i>PLoS ONE</i> , 2015, 10, e0132574.	2.5	120
23	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. <i>Limnology and Oceanography</i> , 2016, 61, S101.	3.1	119
24	Aerobic and anaerobic methanotrophs in the Black Sea water column. <i>Environmental Microbiology</i> , 2006, 8, 1844-1856.	3.8	115
25	Kinetics and mechanism of the reaction of hydrogen sulfide with lepidocrocite. <i>Environmental Science & Technology</i> , 1992, 26, 2408-2413.	10.0	112
26	Solid phases in the cycling of manganese in eutrophic lakes: New insights from EXAFS spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 275-290.	3.9	111
27	Sources and sinks of nitrous oxide (N_2O) in deep lakes. <i>Biogeochemistry</i> , 1997, 38, 281-301.	3.5	111
28	Nitrogen Removal in a Small Constructed Wetland: An Isotope Mass Balance Approach. <i>Environmental Science & Technology</i> , 2006, 40, 3313-3319.	10.0	111
29	Measurement of Denitrification in Sediments with the ^{15}N Isotope Pairing Technique. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3771-3778.	3.1	110
30	Redox processes catalyzed by hydrous oxide surfaces. <i>Chemical Geology</i> , 1989, 78, 167-179.	3.3	108
31	Varve formation since 1885 and high-resolution varve analyses in hypertrophic Baldeggersee (Switzerland). <i>Aquatic Sciences</i> , 1997, 59, 304-325.	1.5	107
32	Reviews and syntheses: Dams, water quality and tropical reservoir stratification. <i>Biogeosciences</i> , 2019, 16, 1657-1671.	3.3	106
33	Influence of temperature and high acetate concentrations on methanogenesis in lake sediment slurries. <i>FEMS Microbiology Ecology</i> , 2007, 62, 336-344.	2.7	104
34	CaCO_3 nucleation by cyanobacteria: laboratory evidence for a passive, surface-induced mechanism. <i>Geobiology</i> , 2009, 7, 324-347.	2.4	101
35	Iron-Mediated Oxidation of Antimony(III) by Oxygen and Hydrogen Peroxide Compared to Arsenic(III) Oxidation. <i>Environmental Science & Technology</i> , 2006, 40, 2565-2571.	10.0	100
36	P, As, Sb, Mo, and Other Elements in Sedimentary Fe/Mn Layers of Lake Baikal. <i>Environmental Science & Technology</i> , 2002, 36, 411-420.	10.0	95

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37	The Role of Autotrophic Picocyanobacteria in Calcite Precipitation in an Oligotrophic Lake. <i>Geomicrobiology Journal</i> , 2004, 21, 45-53.	2.0	95
38	Geochemical-focusing of manganese in lake sediments ? An indicator of deep-water oxygen conditions. <i>Aquatic Geochemistry</i> , 1997, 2, 359-378.	1.3	94
39	Size Does Matter: Importance of Large Bubbles and Small-Scale Hot Spots for Methane Transport. <i>Environmental Science & Technology</i> , 2015, 49, 1268-1276.	10.0	93
40	Nitrogen elimination in two deep eutrophic lakes. <i>Limnology and Oceanography</i> , 1997, 42, 1530-1543.	3.1	82
41	Microbial reactions, chemical speciation, and multicomponent diffusion in porewaters of a eutrophic lake. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2333-2346.	3.9	81
42	Benthic Nutrient Cycling and Diagenetic Pathways in the North-western Black Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2002, 54, 369-383.	2.1	81
43	Green hydropower: a new assessment procedure for river management. <i>River Research and Applications</i> , 2004, 20, 865-882.	1.7	81
44	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
45	Benthic fluxes of nutrients in the northwestern Black Sea. <i>Marine Chemistry</i> , 1998, 62, 77-88.	2.3	78
46	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
47	Origin and dynamics of Fe and Mn sedimentary layers in Lake Baikal. <i>Chemical Geology</i> , 2004, 205, 55-72.	3.3	77
48	Is the Iron Gate I reservoir on the Danube River a sink for dissolved silica?. <i>Biogeochemistry</i> , 2004, 68, 21-32.	3.5	75
49	Sedimentary profiles of Fe, Mn, V, Cr, As and Mo as indicators of benthic redox conditions in Baldeggersee. <i>Aquatic Sciences</i> , 1997, 59, 345-361.	1.5	73
50	Phosphorus Retention in Small Constructed Wetlands Treating Agricultural Drainage Water. <i>Journal of Environmental Quality</i> , 2005, 34, 1251-1259.	2.0	73
51	Mineralization pathways in lake sediments with different oxygen and organic carbon supply. <i>Limnology and Oceanography</i> , 2009, 54, 428-438.	3.1	72
52	Evidence of Intense Archaeal and Bacterial Methanotrophic Activity in the Black Sea Water Column. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8099-8106.	3.1	71
53	Large iron isotope fractionation at the oxicâ€“anoxic boundary in Lake Nyos. <i>Earth and Planetary Science Letters</i> , 2009, 285, 52-60.	4.4	70
54	Arsenic Dynamics in Porewater of an Intermittently Irrigated Paddy Field in Bangladesh. <i>Environmental Science & Technology</i> , 2011, 45, 971-976.	10.0	70

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55	Monte Carlo simulations of surface morphologies during mineral dissolution. <i>Journal of Colloid and Interface Science</i> , 1989, 132, 230-242.	9.4	65
56	Induced Calcite Precipitation by Cyanobacterium <i>Synechococcus</i> . <i>Clean - Soil, Air, Water</i> , 2003, 31, 162-169.	0.6	65
57	Nutrient transfer from soil to surface waters: Differences between nitrate and phosphate. <i>Aquatic Sciences</i> , 2004, 66, 117-122.	1.5	64
58	The influence of tortuosity on molecular diffusion in freshwater sediments of high porosity 1 Associate editor: M. L. Machesky. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1519-1528.	3.9	64
59	Polyaluminum chloride with high Al ₃₀ content as removal agent for arsenic-contaminated well water. <i>Water Research</i> , 2012, 46, 53-62.	11.3	64
60	Adsorption kinetics of vanadyl (IV) and chromium (III) to aluminum oxide: Evidence for a two-step mechanism. <i>Colloids and Surfaces</i> , 1990, 51, 77-88.	0.9	62
61	Hydropower production and river rehabilitation: A case study on an alpine river. <i>Environmental Modeling and Assessment</i> , 2007, 12, 257-267.	2.2	62
62	Alkenone distribution in Lake Van sediment over the last 2700 years: influence of temperature and haptophyte species composition. <i>Quaternary Science Reviews</i> , 2014, 104, 53-62.	3.0	62
63	Reaction Rates and Products of Manganese Oxidation at the Sediment-Water Interface. <i>Advances in Chemistry Series</i> , 1995, , 111-134.	0.6	61
64	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
65	Greenhouse gas emissions (CO ₂ , CH ₄ , and N ₂ O) from several perialpine and alpine hydropower reservoirs by diffusion and loss in turbines. <i>Aquatic Sciences</i> , 2012, 74, 619-635.	1.5	61
66	Conduits of the carbon cycle. <i>Nature</i> , 2013, 503, 346-347.	27.8	61
67	Chemical mechanisms in the dissolution kinetics of minerals; the aspect of active sites. <i>Aquatic Sciences</i> , 1990, 52, 3-31.	1.5	60
68	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
69	On the chemistry of the keggin Al ₁₃ polymer: kinetics of proton-promoted decomposition. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3069-3076.	3.9	54
70	<i>In Situ</i> Ammonium Profiling Using Solid-Contact Ion-Selective Electrodes in Eutrophic Lakes. <i>Analytical Chemistry</i> , 2015, 87, 11990-11997.	6.5	53
71	Oxygenation of vanadyl(IV). Effect of coordinated surface hydroxyl groups and hydroxide ion. <i>Langmuir</i> , 1988, 4, 753-758.	3.5	51
72	Century-Long Warming Trends in the Upper Water Column of Lake Tanganyika. <i>PLoS ONE</i> , 2015, 10, e0132490.	2.5	50

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73	Complexation of Copper(II) with Carbonate Ligands in Aqueous Solution: A CW and Pulse EPR Study. <i>Inorganic Chemistry</i> , 1997, 36, 4490-4499.	4.0	48
74	Solid Solutions between CrO_4 - and SO_4 -Etringite $\text{Ca}_6(\text{Al}(\text{OH})_6)_2[(\text{CrO}_4)_x(\text{SO}_4)_{1-x}]_2\text{H}_2\text{O}$. <i>Environmental Science & Technology</i> , 2010, 44, 8983-8988.	4.0	48
75	Adsorption of Arsenic on Polyaluminum Granulate. <i>Environmental Science & Technology</i> , 2012, 46, 7310-7317.	10.0	48
76	Physical and biogeochemical limits to internal nutrient loading of meromictic Lake Kivu. <i>Limnology and Oceanography</i> , 2009, 54, 1863-1873.	3.1	47
77	Uptake of Cu^{2+} by the calcium carbonates vaterite and calcite as studied by continuous wave (cw) and pulse electron paramagnetic resonance. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1955-1967.	3.9	46
78	Influence of organic carbon decomposition on calcite dissolution in surficial sediments of a freshwater lake. <i>Water Research</i> , 2003, 37, 4524-4532.	11.3	46
79	Robust Solid-Contact Ion Selective Electrodes for High-Resolution <i>In Situ</i> Measurements in Fresh Water Systems. <i>Environmental Science and Technology Letters</i> , 2017, 4, 286-291.	8.7	46
80	Nutrient Behavior in Hydrothermal Carbonization Aqueous Phase Following Recirculation and Reuse. <i>Environmental Science & Technology</i> , 2019, 53, 10426-10434.	10.0	43
81	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
82	Methane oxidation pathways and associated methanotrophic communities in the water column of a tropical lake. <i>Limnology and Oceanography</i> , 2015, 60, 553-572.	3.1	41
83	Determination of methane and other small hydrocarbons with a platinum-Nafion electrode by stripping voltammetry. <i>Analytica Chimica Acta</i> , 2001, 432, 1-10.	5.4	40
84	Microscale mineralization pathways in surface sediments: A chemical sensor study in Lake Baikal. <i>Limnology and Oceanography</i> , 2006, 51, 1342-1354.	3.1	40
85	Growth and rapid succession of methanotrophs effectively limit methane release during lake overturn. <i>Communications Biology</i> , 2020, 3, 108.	4.4	40
86	Calcite dissolution in two deep eutrophic lakes. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3349-3356.	3.9	39
87	Abrupt onset of carbonate deposition in Lake Kivu during the 1960s: response to recent environmental changes. <i>Journal of Paleolimnology</i> , 2010, 44, 931-946.	1.6	39
88	Amperometric detection of gaseous ethanol and acetaldehyde at low concentrations on an Au-Nafion electrode. <i>Analyst</i> , 1999, 124, 871-876.	3.5	38
89	Drought vulnerability assessment of maize in Sub-Saharan Africa: Insights from physical and social perspectives. <i>Global and Planetary Change</i> , 2018, 162, 266-274.	3.5	38
90	Nitrous oxide emissions to the atmosphere from an artificially oxygenated lake. <i>Limnology and Oceanography</i> , 1996, 41, 548-553.	3.1	35

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91	Arsenate uptake by Al nanoclusters and other Al-based sorbents during water treatment. <i>Water Research</i> , 2016, 88, 844-851.	11.3	35
92	High-resolution varve studies in Baldeggersee (Switzerland): Project overview and limnological background data. <i>Aquatic Sciences</i> , 1997, 59, 285-294.	1.5	34
93	EXAFS study of Nd(III) uptake by amorphous calcium silicate hydrates (Ca-Si-H). <i>Journal of Colloid and Interface Science</i> , 2010, 342, 1-7.	9.4	34
94	Methanotrophic microbial communities associated with bubble plumes above gas seeps in the Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	33
95	Cycling of calcite in hard water lakes of different trophic states. <i>Limnology and Oceanography</i> , 2006, 51, 1678-1688.	3.1	33
96	Biogenic silica accumulation in the sediments of Iron Gate I Reservoir on the Danube River. <i>Aquatic Sciences</i> , 2006, 68, 469-481.	1.5	33
97	High spatial resolution measurements in lake sediments with PVC based liquid membrane ion-selective electrodes. <i>Limnology and Oceanography</i> , 1998, 43, 1728-1733.	3.1	32
98	Lake sediments during the transient eutrophication period: Reactive-transport model and identifiability study. <i>Ecological Modelling</i> , 2009, 220, 2751-2769.	2.5	32
99	Renewable but not carbon-free. <i>Nature Geoscience</i> , 2011, 4, 585-586.	12.9	32
100	Green Electricity from Alpine Hydropower Plants. <i>Mountain Research and Development</i> , 2001, 21, 19-24.	1.0	31
101	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
102	Fe(III) uptake by calcium silicate hydrates. <i>Applied Geochemistry</i> , 2020, 113, 104460.	3.0	31
103	Spatial assessment of maize physical drought vulnerability in sub-Saharan Africa: Linking drought exposure with crop failure. <i>Environmental Research Letters</i> , 2018, 13, 074010.	5.2	31
104	Fe(II) Sorption on a Synthetic Montmorillonite. A Combined Macroscopic and Spectroscopic Study. <i>Environmental Science & Technology</i> , 2013, 47, 6978-6986.	10.0	30
105	Submicromolar Oxygen Profiles at the Oxidic-Anoxic Boundary of Temperate Lakes. <i>Aquatic Geochemistry</i> , 2014, 20, 39-57.	1.3	30
106	Influence of the diffusive boundary layer on solute dynamics in the sediments of a seiche-driven lake: A model study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
107	Diagenetic cycling of arsenic in the sediments of eutrophic Baldeggersee, Switzerland. <i>Applied Geochemistry</i> , 2003, 18, 1497-1506.	3.0	27
108	Spatial distribution and recent changes in carbon, nitrogen and phosphorus accumulation in sediments of the Black Sea. <i>Marine Chemistry</i> , 2007, 105, 52-69.	2.3	27

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109	Title is missing!. Journal of Paleolimnology, 2000, 24, 277-291.	1.6	26
110	Contribution of bacterial cells to lacustrine organic matter based on amino sugars and d-amino acids. Geochimica Et Cosmochimica Acta, 2012, 89, 159-172.	3.9	26
111	River-floodplain exchange and its effects on the fluvial oxygen regime in a large tropical river system (Kafue Flats, Zambia). Journal of Geophysical Research, 2012, 117, .	3.3	26
112	Organic carbon and nitrogen export from a tropical dam-impacted floodplain system. Biogeosciences, 2013, 10, 23-38.	3.3	26
113	Ecotoxicological assessment of solar cell leachates: Copper indium gallium selenide (CIGS) cells show higher activity than organic photovoltaic (OPV) cells. Science of the Total Environment, 2016, 543, 703-714.	8.0	26
114	Nutrient uptake and benthic regeneration in Danube Delta Lakes. Biogeochemistry, 2003, 64, 373-398.	3.5	24
115	Thermostatted dual-channel portable capillary electrophoresis instrument. Electrophoresis, 2016, 37, 2368-2375.	2.4	24
116	Iron speciation in blast furnace slag cements. Cement and Concrete Research, 2021, 140, 106287.	11.0	24
117	Anoxic chlorophyll maximum enhances local organic matter remineralization and nitrogen loss in Lake Tanganyika. Nature Communications, 2021, 12, 830.	12.8	24
118	In Situ Measurements in Lake Sediments Using Ion-Selective Electrodes with a Profiling Lander System. ACS Symposium Series, 2002, , 126-143.	0.5	23
119	Oxygenic primary production below the oxycline and its importance for redox dynamics. Aquatic Sciences, 2016, 78, 727-741.	1.5	23
120	Analysis of the Major Fe Bearing Mineral Phases in Recent Lake Sediments by EXAFS Spectroscopy. Aquatic Geochemistry, 2003, 9, 1-17.	1.3	22
121	Assessing river-groundwater exchange in the regulated Rhone River (Switzerland) using stable isotopes and geochemical tracers. Applied Geochemistry, 2005, 20, 701-712.	3.0	22
122	What prevents outgassing of methane to the atmosphere in Lake Tanganyika?. Journal of Geophysical Research, 2011, 116, .	3.3	22
123	Uncertainty-based auto-calibration for crop yield – the EPIC+ procedure for a case study in Sub-Saharan Africa. European Journal of Agronomy, 2018, 93, 57-72.	4.1	22
124	Living with floating vegetation invasions. Ambio, 2021, 50, 125-137.	5.5	22
125	Unaccounted CO ₂ leaks downstream of a large tropical hydroelectric reservoir. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
126	Sulfate reduction and methanogenesis in the Shira and Shunet meromictic lakes (Khakasia, Russia). Microbiology, 2006, 75, 720-726.	1.2	21

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127	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
128	Spatial heterogeneity of benthic methane dynamics in the subaquatic canyons of the Rhone River Delta (Lake Geneva). <i>Aquatic Sciences</i> , 2014, 76, 89-101.	1.5	21
129	Structural genomic variation leads to genetic differentiation in Lake Tanganyika's sardines. <i>Molecular Ecology</i> , 2020, 29, 3277-3298.	3.9	21
130	Biomarkers in Lake Van sediments reveal dry conditions in eastern Anatolia during 110,000–10,000 years BP. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 571-583.	2.5	20
131	Aerobic methane oxidation under copper scarcity in a stratified lake. <i>Scientific Reports</i> , 2019, 9, 4817.	3.3	20
132	Methane oxidation in the waters of a humic-rich boreal lake stimulated by photosynthesis, nitrite, Fe(III) and humics. <i>Biogeosciences</i> , 2021, 18, 3087-3101.	3.3	20
133	Biogeochemical processes at the sediment-water interface: measurements and modeling. <i>Applied Geochemistry</i> , 1993, 8, 117-119.	3.0	19
134	Seasonal Fluctuations of Bacterial Community Diversity in Agricultural Soil and Experimental Validation by Laboratory Disturbance Experiments. <i>Microbial Ecology</i> , 2008, 56, 210-222.	2.8	19
135	Fast Potentiometric CO ₂ Sensor for High-Resolution in Situ Measurements in Fresh Water Systems. <i>Environmental Science & Technology</i> , 2018, 52, 11259-11266.	10.0	19
136	Sources and emission of greenhouse gases in Danube Delta lakes. <i>Environmental Science and Pollution Research</i> , 2009, 16, 86-91.	5.3	18
137	Intensified organic carbon dynamics in the ground water of a restored riparian zone. <i>Freshwater Biology</i> , 2012, 57, 1603-1616.	2.4	18
138	Environmental and Microbial Interactions Shape Methane-Oxidizing Bacterial Communities in a Stratified Lake. <i>Frontiers in Microbiology</i> , 2020, 11, 579427.	3.5	18
139	Fe(II) interaction with cement phases: Method development, wet chemical studies and X-ray absorption spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 692-704.	9.4	18
140	Small hydropower goes unchecked. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 256-258.	4.0	17
141	Potential health effects of cyanide use in artisanal and small-scale gold mining in Burkina Faso. <i>Journal of Cleaner Production</i> , 2020, 252, 119689.	9.3	17
142	Reconstructing the iron cycle from the horizontal distribution of metals in the sediment of Baldeggersee. <i>Aquatic Sciences</i> , 1997, 59, 326-344.	1.5	16
143	Microbial processes at the aerobic-anaerobic interface in the deep-water zone of the black sea. <i>Microbiology</i> , 2000, 69, 436-448.	1.2	16
144	Moving Targets, Long-Lived Infrastructure, and Increasing Needs for Integration and Adaptation in Water Management: An Illustration from Switzerland. <i>Environmental Science & Technology</i> , 2012, 46, 112-118.	10.0	16

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145	Methane dynamics downstream of a temperate runâ€“theâ€“river reservoir. <i>Limnology and Oceanography</i> , 2016, 61, S188.	3.1	16
146	Lake Modeling Reveals Management Opportunities for Improving Water Quality Downstream of Transboundary Tropical Dams. <i>Water Resources Research</i> , 2021, 57, e2020WR027465.	4.2	16
147	Exploring the hydrology and biogeochemistry of the dam-impacted Kafue River and Kafue Flats (Zambia). <i>Physics and Chemistry of the Earth</i> , 2011, 36, 775-788.	2.9	15
148	Nitrate removal in a restored riparian groundwater system: functioning and importance of individual riparian zones. <i>Biogeosciences</i> , 2012, 9, 4295-4307.	3.3	15
149	Hysteresis effects in organic matter turnover in a tropical floodplain during a flood cycle. <i>Biogeochemistry</i> , 2016, 131, 49-63.	3.5	15
150	Varve formation since 1885 and high-resolution varve analyses in hypertrophic Baldeggersee (Switzerland). <i>Aquatic Sciences</i> , 1997, 59, 304.	1.5	14
151	Seasonal dynamics of carbon and nutrients from two contrasting tropical floodplain systems in the Zambezi River basin. <i>Biogeosciences</i> , 2015, 12, 7535-7547.	3.3	13
152	Redox gradients at the low oxygen boundary of lakes. <i>Aquatic Sciences</i> , 2015, 77, 81-93.	1.5	13
153	Solute transfer across the sediment surface of a eutrophic lake: I. Porewater profiles from dialysis samplers. <i>Aquatic Sciences</i> , 1997, 59, 1-25.	1.5	13
154	Sedimentary profiles of Fe, Mn, V, Cr, As and Mo as indicators of benthic redox conditions in Baldeggersee. <i>Aquatic Sciences</i> , 1997, 59, 345.	1.5	13
155	Nutrient retention in the Danube's Iron Gate reservoir. <i>Eos</i> , 2006, 87, 385.	0.1	12
156	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
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