Hilmar Hofmann

List of Publications by Year
in descending order

36 papers	1,042 citations	516710 16 h-index	414414 32 g-index
38 all docs	38 docs citations	38 times ranked	1342 citing authors

#	Article	IF	Citations
1	Temporal scales of water-level fluctuations in lakes and their ecological implications. Hydrobiologia, 2008, 613, 85-96.	2.0	99
2	Pumping methane out of aquatic sediments â€“ ebullition forcing mechanisms in an impounded river. Biogeosciences, 2014, 11, 2925-2938.	3.3	95
3	Waveâ€induced release of methane: Littoral zones as source of methane in lakes. Limnology and Oceanography, 2010, 55, 1990-2000.	3.1	94
4	Importance of the Autumn Overturn and Anoxic Conditions in the Hypolimnion for the Annual Methane Emissions from a Temperate Lake. Environmental Science & Technology, 2014, 48, 7297-7304.	10.0	86
5	The relative importance of wind and ship waves in the littoral zone of a large lake. Limnology and Oceanography, 2008, 53, 368-380.	3.1	71
6	On the methane paradox: Transport from shallow water zones rather than in situ methanogenesis is the major source of CH₄ in the open surface water of lakes. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2717-2726.	3.0	66
7	Spatiotemporal distribution patterns of dissolved methane in lakes: How accurate are the current estimations of the diffusive flux path?. Geophysical Research Letters, 2013, 40, 2779-2784.	4.0	65
8	Export of Dissolved Methane and Carbon Dioxide with Effluents from Municipal Wastewater Treatment Plants. Environmental Science & Technology, 2016, 50, 5555-5563.	10.0	64
9	Sediment fluxes rather than oxic methanogenesis explain diffusive CH4 emissions from lakes and reservoirs. Scientific Reports, 2019, 9, 243.	3.3	59
10	Lake Metabolism: Comparison of Lake Metabolic Rates Estimated from a Diel CO2- and the Common Diel O2-Technique. PLoS ONE, 2016, 11, e0168393.	2.5	32
11	Wind and ship waveâ€induced resuspension in the littoral zone of a large lake. Water Resources Research, 2011, 47, .	4.2	31
12	Spawning site selection by Eurasian perch (<i>Perca fluviatilis</i> L.) in relation to temperature and wave exposure. Ecology of Freshwater Fish, 2009, 18, 1-7.	1.4	24
13	Effects of water depth and hydrodynamics on the growth and distribution of juvenile cyprinids in the littoral zone of a large preâ€alpine lake. Journal of Fish Biology, 2008, 72, 1001-1022.	1.6	23
14	The Consequences of Internal Waves for Phytoplankton Focusing on the Distribution and Production of Planktothrix rubescens. PLoS ONE, 2014, 9, e104359.	2.5	21
15	Modeling wind waves and wave exposure of nearshore zones in medium-sized lakes. Limnology and Oceanography, 2013, 58, 23-36.	3.1	20
16	Comparison of results from two 3D hydrodynamic models with field data: internal seiches and horizontal currents. Inland Waters, 2019, 9, 239-260.	2.2	19
17	Oxic methanogenesis is only a minor source of lake-wide diffusive CH4 emissions from lakes. Nature Communications, 2021, 12, 1206.	12.8	17
18	In-Situ Optical and Acoustical Measurements of the Buoyant Cyanobacterium P. Rubescens: Spatial and Temporal Distribution Patterns. PLoS ONE, 2013, 8, e80913.	2.5	16

#	Article	IF	Citations
19	Mining lakes as groundwaterâ€dominated hydrological systems: assessment of the water balance of Mining Lake Plessa 117 (Lusatia, Germany) using stable isotopes. Hydrological Processes, 2008, 22, 4620-4627.	2.6	15
20	Modelling interâ€annual and spatial variability of ice cover in a temperate lake with complex morphology. Hydrological Processes, 2020, 34, 691-704.	2.6	15
21	Effect of wave exposure dynamics on gut content mass and growth of youngâ€ofâ€theâ€year fishes in the littoral zone of lakes. Journal of Fish Biology, 2010, 76, 1714-1728.	1.6	14
22	Lengthâ€scale dependence of horizontal dispersion in the surface water of lakes. Limnology and Oceanography, 2015, 60, 1917-1934.	3.1	13
23	Implications of river intrusion and convective mixing on the spatial and temporal variability of under-ice CO2. Inland Waters, 2019, 9, 162-176.	2.2	12
24	Temporal scales of water-level fluctuations in lakes and their ecological implications. , 2008, , 85-96.		10
25	Diurnal Pumpedâ€Storage Operation Minimizes Methane Ebullition Fluxes From Hydropower Reservoirs. Water Resources Research, 2020, 56, e2020WR027221.	4.2	9
26	Lateral variations and vertical structure of the microbial methane cycle in the sediment of Lake Onego (Russia). Inland Waters, 2019, 9, 205-226.	2.2	8
27	Effects of a retaining wall and an artificial embankment on nearshore littoral habitats and biota in a large Alpine lake. Hydrobiologia, 2020, 847, 365-389.	2.0	8
28	Where does the river end? Drivers of spatiotemporal variability in CO 2 concentration and flux in the inflow area of a large boreal lake. Limnology and Oceanography, 2020, 65, 1161-1174.	3.1	8
29	Wave-induced variability of the underwater light climate in the littoral zone. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2008, 30, 627-632.	0.1	6
30	On the calculation of lake metabolic rates: Diel O2 and 18/16O technique. Water Research, 2019, 165, 114990.	11.3	6
31	Hydrogeochemistry of groundwater seepage into an acidic mining lake. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2006, 29, 1452-1456.	0.1	4
32	Erosion Hazards and Efficient Preservation Measures in Prehistoric Cultural Layers in the Littoral of Lake Constance (Germany, Switzerland). Conservation and Management of Archaeological Sites, 2016, 18, 217-229.	0.5	3
33	Interannual Variability of Methane Storage and Emission During Autumn Overturn in a Small Lake. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006388.	3.0	2
34	Effects of winter temperature on phytoplankton development in acidic mining lakes. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2006, 29, 1423-1426.	0.1	1
35	Comment on â€œParticle dispersal due to interplay of motions in the surface layer of a small reservoirâ€• (by P. Okely, J. Imberger, and K. Shimizu) and â€œProcesses affecting horizontal mixing and dispersion in Winam Gulf, Lake Victoriaâ€•(by P. Okely, J. Imberger, and J. P. Antenucci). Limnology and Oceanography, 2012, 57, 382-386.	3.1	1
36	Reply for comment on â€œon the calculation of lake metabolic rates: Diel O2 and 18/16O techniqueâ€•by Peeters etÂal. [Water research 165 2019, 114990]. Water Research, 2020, 180, 115849.	11.3	0