

Hilmar Hofmann

List of Publications by Year in descending order

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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	Oxic methanogenesis is only a minor source of lake-wide diffusive CH ₄ emissions from lakes. <i>Nature Communications</i> , 2021, 12, 1206.	12.8	17
2	Interannual Variability of Methane Storage and Emission During Autumn Overturn in a Small Lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006388.	3.0	2
3	Effects of a retaining wall and an artificial embankment on nearshore littoral habitats and biota in a large Alpine lake. <i>Hydrobiologia</i> , 2020, 847, 365-389.	2.0	8
4	Modelling interannual and spatial variability of ice cover in a temperate lake with complex morphology. <i>Hydrological Processes</i> , 2020, 34, 691-704.	2.6	15
5	Where does the river end? Drivers of spatiotemporal variability in CO ₂ concentration and flux in the inflow area of a large boreal lake. <i>Limnology and Oceanography</i> , 2020, 65, 1161-1174.	3.1	8
6	Diurnal Pumped-Storage Operation Minimizes Methane Ebullition Fluxes From Hydropower Reservoirs. <i>Water Resources Research</i> , 2020, 56, e2020WR027221.	4.2	9
7	Reply for comment on "on the calculation of lake metabolic rates: Diel O ₂ and 18/16O technique" by Peeters et al. [<i>Water research</i> 165 2019, 114990]. <i>Water Research</i> , 2020, 180, 115849.	11.3	0
8	Implications of river intrusion and convective mixing on the spatial and temporal variability of under-ice CO ₂ . <i>Inland Waters</i> , 2019, 9, 162-176.	2.2	12
9	On the calculation of lake metabolic rates: Diel O ₂ and 18/16O technique. <i>Water Research</i> , 2019, 165, 114990.	11.3	6
10	Sediment fluxes rather than oxic methanogenesis explain diffusive CH ₄ emissions from lakes and reservoirs. <i>Scientific Reports</i> , 2019, 9, 243.	3.3	59
11	Comparison of results from two 3D hydrodynamic models with field data: internal seiches and horizontal currents. <i>Inland Waters</i> , 2019, 9, 239-260.	2.2	19
12	Lateral variations and vertical structure of the microbial methane cycle in the sediment of Lake Onego (Russia). <i>Inland Waters</i> , 2019, 9, 205-226.	2.2	8
13	Lake Metabolism: Comparison of Lake Metabolic Rates Estimated from a Diel CO ₂ - and the Common Diel O ₂ -Technique. <i>PLoS ONE</i> , 2016, 11, e0168393.	2.5	32
14	Erosion Hazards and Efficient Preservation Measures in Prehistoric Cultural Layers in the Littoral of Lake Constance (Germany, Switzerland). <i>Conservation and Management of Archaeological Sites</i> , 2016, 18, 217-229.	0.5	3
15	Export of Dissolved Methane and Carbon Dioxide with Effluents from Municipal Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2016, 50, 5555-5563.	10.0	64
16	On the methane paradox: Transport from shallow water zones rather than in situ methanogenesis is the major source of CH ₄ in the open surface water of lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2717-2726.	3.0	66
17	Length-scale dependence of horizontal dispersion in the surface water of lakes. <i>Limnology and Oceanography</i> , 2015, 60, 1917-1934.	3.1	13
18	Pumping methane out of aquatic sediments " ebullition forcing mechanisms in an impounded river. <i>Biogeosciences</i> , 2014, 11, 2925-2938.	3.3	95

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19	Importance of the Autumn Overturn and Anoxic Conditions in the Hypolimnion for the Annual Methane Emissions from a Temperate Lake. <i>Environmental Science & Technology</i> , 2014, 48, 7297-7304.	10.0	86
20	The Consequences of Internal Waves for Phytoplankton Focusing on the Distribution and Production of <i>Planktothrix rubescens</i> . <i>PLoS ONE</i> , 2014, 9, e104359.	2.5	21
21	Spatiotemporal distribution patterns of dissolved methane in lakes: How accurate are the current estimations of the diffusive flux path?. <i>Geophysical Research Letters</i> , 2013, 40, 2779-2784.	4.0	65
22	Modeling wind waves and wave exposure of nearshore zones in medium-sized lakes. <i>Limnology and Oceanography</i> , 2013, 58, 23-36.	3.1	20
23	In-Situ Optical and Acoustical Measurements of the Buoyant Cyanobacterium <i>P. Rubescens</i> : Spatial and Temporal Distribution Patterns. <i>PLoS ONE</i> , 2013, 8, e80913.	2.5	16
24	Comment on "Particle dispersal due to interplay of motions in the surface layer of a small reservoir" (by P. Okely, J. Imberger, and K. Shimizu) and "Processes affecting horizontal mixing and dispersion in Winam Gulf, Lake Victoria" (by P. Okely, J. Imberger, and J. P. Antenucci). <i>Limnology and Oceanography</i> , 2012, 57, 382-386.	3.1	1
25	Wind and ship wave-induced resuspension in the littoral zone of a large lake. <i>Water Resources Research</i> , 2011, 47, .	4.2	31
26	Wave-induced release of methane: Littoral zones as source of methane in lakes. <i>Limnology and Oceanography</i> , 2010, 55, 1990-2000.	3.1	94
27	Effect of wave exposure dynamics on gut content mass and growth of young-of-the-year fishes in the littoral zone of lakes. <i>Journal of Fish Biology</i> , 2010, 76, 1714-1728.	1.6	14
28	Spawning site selection by Eurasian perch (<i>Perca fluviatilis</i> L.) in relation to temperature and wave exposure. <i>Ecology of Freshwater Fish</i> , 2009, 18, 1-7.	1.4	24
29	Temporal scales of water-level fluctuations in lakes and their ecological implications. <i>Hydrobiologia</i> , 2008, 613, 85-96.	2.0	99
30	Mining lakes as groundwater-dominated hydrological systems: assessment of the water balance of Mining Lake Plessa 117 (Lusatia, Germany) using stable isotopes. <i>Hydrological Processes</i> , 2008, 22, 4620-4627.	2.6	15
31	Effects of water depth and hydrodynamics on the growth and distribution of juvenile cyprinids in the littoral zone of a large pre-alpine lake. <i>Journal of Fish Biology</i> , 2008, 72, 1001-1022.	1.6	23
32	The relative importance of wind and ship waves in the littoral zone of a large lake. <i>Limnology and Oceanography</i> , 2008, 53, 368-380.	3.1	71
33	Wave-induced variability of the underwater light climate in the littoral zone. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2008, 30, 627-632.	0.1	6
34	Temporal scales of water-level fluctuations in lakes and their ecological implications. , 2008, , 85-96.		10
35	Hydrogeochemistry of groundwater seepage into an acidic mining lake. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2006, 29, 1452-1456.	0.1	4
36	Effects of winter temperature on phytoplankton development in acidic mining lakes. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2006, 29, 1423-1426.	0.1	1