

Paul C Hanson

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

5,793
citations

71102

41
h-index

79698

73
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95
all docs

95
docs citations

95
times ranked

5762
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating pelagic primary production in lakes: Comparison of 14 C incubation and freeâ€water O 2 approaches. <i>Limnology and Oceanography: Methods</i> , 2022, 20, 34-45.	2.0	5
2	Dynamics of the streamâ€lake transitional zone affect littoral lake metabolism. <i>Aquatic Sciences</i> , 2022, 84, 1.	1.5	3
3	Longâ€term change in metabolism phenology in north temperate lakes. <i>Limnology and Oceanography</i> , 2022, 67, 1502-1521.	3.1	10
4	Anoxia decreases the magnitude of the carbon, nitrogen, and phosphorus sink in freshwaters. <i>Global Change Biology</i> , 2022, 28, 4861-4881.	9.5	23
5	RealSAT, a global dataset of reservoir and lake surface area variations. <i>Scientific Data</i> , 2022, 9, .	5.3	17
6	Variability in fluorescent dissolved organic matter concentrations across diel to seasonal time scales is driven by water temperature and meteorology in a eutrophic reservoir. <i>Aquatic Sciences</i> , 2021, 83, 1.	1.5	6
7	Virtual Growing Pains: Initial Lessons Learned from Organizing Virtual Workshops, Summits, Conferences, and Networking Events during a Global Pandemic. <i>Limnology and Oceanography Bulletin</i> , 2021, 30, 1-11.	0.4	9
8	Lake thermal structure drives interannual variability in summer anoxia dynamics in a eutrophic lake over 37Åyears. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1009-1032.	4.9	47
9	Coupling Natural and Human Models in the Context of a Lake Ecosystem: Lake Mendota, Wisconsin, USA. <i>Ecological Economics</i> , 2020, 169, 106556.	5.7	12
10	Ecosystem-scale nutrient cycling responses to increasing air temperatures vary with lake trophic state. <i>Ecological Modelling</i> , 2020, 430, 109134.	2.5	33
11	Differential Responses of Maximum Versus Median Chlorophyllâ€ <i>a</i> to Air Temperature and Nutrient Loads in an Oligotrophic Lake Over 31ÅYears. <i>Water Resources Research</i> , 2020, 56, e2020WR027296.	4.2	24
12	Predicting lake surface water phosphorus dynamics using process-guided machine learning. <i>Ecological Modelling</i> , 2020, 430, 109136.	2.5	50
13	Stochastic dynamics of Cyanobacteria in longâ€term highâ€frequency observations of a eutrophic lake. <i>Limnology and Oceanography Letters</i> , 2020, 5, 331-336.	3.9	22
14	Lakes at Risk of Chloride Contamination. <i>Environmental Science & Technology</i> , 2020, 54, 6639-6650.	10.0	43
15	Processâ€Guided Deep Learning Predictions of Lake Water Temperature. <i>Water Resources Research</i> , 2019, 55, 9173-9190.	4.2	200
16	Drivers and Management Implications of Long-Term Cisco Oxythermal Habitat Decline in Lake Mendota, WI. <i>Environmental Management</i> , 2019, 63, 396-407.	2.7	21
17	Enhancing collaboration between ecologists and computer scientists: lessons learned and recommendations forward. <i>Ecosphere</i> , 2019, 10, e02753.	2.2	17
18	A General Lake Model (GLM 3.0) for linking with high-frequency sensor data from the Global Lake Ecological Observatory Network (GLEON). <i>Geoscientific Model Development</i> , 2019, 12, 473-523.	3.6	125

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19	Integrating fast and slow processes is essential for simulating human-freshwater interactions. <i>Ambio</i> , 2019, 48, 1169-1182.	5.5	13
20	Drainage Ratio as a Strong Predictor of Allochthonous Carbon Budget in Hemiboreal Lakes. <i>Ecosystems</i> , 2019, 22, 805-817.	3.4	8
21	The age of water and carbon in lake-catchments: A simple dynamical model. <i>Limnology and Oceanography Letters</i> , 2018, 3, 236-245.	3.9	10
22	A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. <i>Environmental Modelling and Software</i> , 2018, 102, 274-291.	4.5	93
23	Toward a more integrative perspective on carbon metabolism across lentic and lotic inland waters. <i>Limnology and Oceanography Letters</i> , 2018, 3, 57-63.	3.9	36
24	A lake classification concept for a more accurate global estimate of the dissolved inorganic carbon export from terrestrial ecosystems to inland waters. <i>Die Naturwissenschaften</i> , 2018, 105, 25.	1.6	13
25	Oxygen dynamics control the burial of organic carbon in a eutrophic reservoir. <i>Limnology and Oceanography Letters</i> , 2018, 3, 293-301.	3.9	31
26	A data mining approach to evaluate suitability of dissolved oxygen sensor observations for lake metabolism analysis. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 787-801.	2.0	2
27	Dynamic modeling of organic carbon fates in lake ecosystems. <i>Ecological Modelling</i> , 2018, 386, 71-82.	2.5	21
28	From concept to practice to policy: modeling coupled natural and human systems in lake catchments. <i>Ecosphere</i> , 2018, 9, e02209.	2.2	23
29	Water quality data for national-scale aquatic research: The Water Quality Portal. <i>Water Resources Research</i> , 2017, 53, 1735-1745.	4.2	119
30	Salting our freshwater lakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4453-4458.	7.1	314
31	A temperature compensation method for chlorophyll and phycocyanin fluorescence sensors in freshwater. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 642-652.	2.0	9
32	Mining lake time series using symbolic representation. <i>Ecological Informatics</i> , 2017, 39, 10-22.	5.2	7
33	GRAPLER: A distributed collaborative environment for lake ecosystem modeling that integrates overlay networks, high-throughput computing, and WEB services. <i>Concurrency Computation Practice and Experience</i> , 2017, 29, e4139.	2.2	9
34	Long-term chloride concentrations in North American and European freshwater lakes. <i>Scientific Data</i> , 2017, 4, 170101.	5.3	43
35	Meteorological drivers of hypolimnetic anoxia in a eutrophic, north temperate lake. <i>Ecological Modelling</i> , 2017, 343, 39-53.	2.5	68
36	LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. <i>GigaScience</i> , 2017, 6, 1-22.	6.4	102

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37	Networked lake science: how the Global Lake Ecological Observatory Network (GLEON) works to understand, predict, and communicate lake ecosystem response to global change. <i>Inland Waters</i> , 2016, 6, 543-554.	2.2	36
38	Consequences of gas flux model choice on the interpretation of metabolic balance across 15 lakes. <i>Inland Waters</i> , 2016, 6, 581-592.	2.2	35
39	Generating community-built tools for data sharing and analysis in environmental networks. <i>Inland Waters</i> , 2016, 6, 637-644.	2.2	9
40	Building the team for team science. <i>Ecosphere</i> , 2016, 7, e01291.	2.2	62
41	Information management at the North Temperate Lakes Long-term Ecological Research site – Successful support of research in a large, diverse, and long running project. <i>Ecological Informatics</i> , 2016, 36, 201-208.	5.2	8
42	LakeMetabolizer: an R package for estimating lake metabolism from free-water oxygen using diverse statistical models. <i>Inland Waters</i> , 2016, 6, 622-636.	2.2	91
43	Using wavelet analyses to examine variability in phytoplankton seasonal succession and annual periodicity. <i>Journal of Plankton Research</i> , 2016, 38, 27-40.	1.8	46
44	A Global Lake Ecological Observatory Network (GLEON) for synthesising high-frequency sensor data for validation of deterministic ecological models. <i>Inland Waters</i> , 2015, 5, 49-56.	2.2	62
45	Predicting the resilience and recovery of aquatic systems: A framework for model evolution within environmental observatories. <i>Water Resources Research</i> , 2015, 51, 7023-7043.	4.2	80
46	Determining the probability of cyanobacterial blooms: the application of Bayesian networks in multiple lake systems. <i>Ecological Applications</i> , 2015, 25, 186-199.	3.8	112
47	Small lakes show muted climate change signal in deepwater temperatures. <i>Geophysical Research Letters</i> , 2015, 42, 355-361.	4.0	99
48	Diel cycles in the fluorescence of dissolved organic matter in dystrophic Wisconsin seepage lakes: Implications for carbon turnover. <i>Limnology and Oceanography</i> , 2015, 60, 482-496.	3.1	22
49	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. <i>Ecosystems</i> , 2015, 18, 363-375.	3.4	81
50	Correcting CDOM fluorescence measurements for temperature effects under field conditions in freshwaters. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 23-24.	2.0	9
51	Lake shoreline in the contiguous United States: quantity, distribution and sensitivity to observation resolution. <i>Freshwater Biology</i> , 2014, 59, 213-223.	2.4	24
52	Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 31-38.	4.0	211
53	Simulating 2368 temperate lakes reveals weak coherence in stratification phenology. <i>Ecological Modelling</i> , 2014, 291, 142-150.	2.5	101
54	Phosphorus speciation in a eutrophic lake by 31P NMR spectroscopy. <i>Water Research</i> , 2014, 62, 229-240.	11.3	73

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55	CO ₂ and CH ₄ emissions from streams in a lake-€rich landscape: Patterns, controls, and regional significance. <i>Global Biogeochemical Cycles</i> , 2014, 28, 197-210.	4.9	115
56	Improving the precision of lake ecosystem metabolism estimates by identifying predictors of model uncertainty. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 303-312.	2.0	23
57	Quantifying lake allochthonous organic carbon budgets using a simple equilibrium model. <i>Limnology and Oceanography</i> , 2014, 59, 167-181.	3.1	40
58	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. <i>Limnology and Oceanography</i> , 2013, 58, 849-866.	3.1	195
59	THE GLOBAL LAKE ECOLOGICAL OBSERVATORY NETWORK (GLEON): THE EVOLUTION OF GRASSROOTS NETWORK SCIENCE. <i>Limnology and Oceanography Bulletin</i> , 2013, 22, 71-73.	0.4	65
60	Spatial heterogeneity strongly affects estimates of ecosystem metabolism in two north temperate lakes. <i>Limnology and Oceanography</i> , 2012, 57, 1689-1700.	3.1	77
61	Staying afloat in the sensor data deluge. <i>Trends in Ecology and Evolution</i> , 2012, 27, 121-129.	8.7	108
62	Lake-€size dependency of wind shear and convection as controls on gas exchange. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	199
63	Time-scale dependence in numerical simulations: Assessment of physical, chemical, and biological predictions in a stratified lake at temporal scales of hours to months. <i>Environmental Modelling and Software</i> , 2012, 35, 104-121.	4.5	55
64	A community-based framework for aquatic ecosystem models. <i>Hydrobiologia</i> , 2012, 683, 25-34.	2.0	87
65	Metabolic changes and the resistance and resilience of a subtropical heterotrophic lake to typhoon disturbance. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 768-780.	1.4	25
66	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. <i>Global Change Biology</i> , 2011, 17, 1193-1211.	9.5	151
67	Comparison of regional stream and lake chemistry: Differences, similarities, and potential drivers. <i>Limnology and Oceanography</i> , 2011, 56, 1551-1562.	3.1	28
68	Fate of Allochthonous Dissolved Organic Carbon in Lakes: A Quantitative Approach. <i>PLoS ONE</i> , 2011, 6, e21884.	2.5	98
69	Lake metabolism and the diel oxygen technique: State of the science. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 628-644.	2.0	214
70	Filling holes in regional carbon budgets: Predicting peat depth in a north temperate lake district. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
71	Phosphorus sources and demand during summer in a eutrophic lake. <i>Aquatic Sciences</i> , 2009, 71, 214-227.	1.5	27
72	Climate change and lakes: Estimating sensitivities of water and carbon budgets. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16

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73	New Eyes on the World: Advanced Sensors for Ecology. <i>BioScience</i> , 2009, 59, 385-397.	4.9	119
74	Seasonal dynamics, typhoons and the regulation of lake metabolism in a subtropical humic lake. <i>Freshwater Biology</i> , 2008, 53, 1929-1941.	2.4	56
75	Depth-integrated, continuous estimates of metabolism in a clear-water lake. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 712-722.	1.4	75
76	Evaluation of metabolism models for free-water dissolved oxygen methods in lakes. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 454-465.	2.0	104
77	Conceptual Challenges and Practical Issues in Building The Global Lake Ecological Observatory Network. , 2007, , .		8
78	Understanding Regional Change: A Comparison of Two Lake Districts. <i>BioScience</i> , 2007, 57, 323-335.	4.9	129
79	Carbon and water cycling in lake-rich landscapes: Landscape connections, lake hydrology, and biogeochemistry. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
80	A grassroots approach to sensor and science networks. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 343-343.	4.0	24
81	Small lakes dominate a random sample of regional lake characteristics. <i>Freshwater Biology</i> , 2007, 52, 814-822.	2.4	107
82	Gross primary production and respiration differences among littoral and pelagic habitats in northern Wisconsin lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 1130-1141.	1.4	88
83	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. <i>Ecological Monographs</i> , 2006, 76, 343-363.	5.4	82
84	A model of carbon evasion and sedimentation in temperate lakes. <i>Global Change Biology</i> , 2004, 10, 1285-1298.	9.5	149
85	Controls of $\delta^{13}\text{C}$ in lakes: Geochemistry, lake metabolism, and morphometry. <i>Limnology and Oceanography</i> , 2004, 49, 1160-1172.	3.1	152
86	Lake metabolism: Relationships with dissolved organic carbon and phosphorus. <i>Limnology and Oceanography</i> , 2003, 48, 1112-1119.	3.1	335