

Peter A Staehr

List of Publications by Year in descending order

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81
papers

4,523
citations

94381

37
h-index

106281

65
g-index

85
all docs

85
docs citations

85
times ranked

5556
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconciling the temperature dependence of respiration across timescales and ecosystem types. <i>Nature</i> , 2012, 487, 472-476.	13.7	369
2	Decreasing resilience of kelp beds along a latitudinal temperature gradient: potential implications for a warmer future. <i>Ecology Letters</i> , 2010, 13, 685-694.	3.0	282
3	Lake metabolism and the diel oxygen technique: State of the science. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 628-644.	1.0	214
4	Lake size dependency of wind shear and convection as controls on gas exchange. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	199
5	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. <i>Limnology and Oceanography</i> , 2013, 58, 849-866.	1.6	195
6	Recovery of Danish Coastal Ecosystems After Reductions in Nutrient Loading: A Holistic Ecosystem Approach. <i>Estuaries and Coasts</i> , 2016, 39, 82-97.	1.0	187
7	The metabolism of aquatic ecosystems: history, applications, and future challenges. <i>Aquatic Sciences</i> , 2012, 74, 15-29.	0.6	176
8	Invasion of <i>Sargassum muticum</i> in Limfjorden (Denmark) and its possible impact on the indigenous macroalgal community. <i>Marine Ecology - Progress Series</i> , 2000, 207, 79-88.	0.9	142
9	Effects of weather-related episodic events in lakes: an analysis based on high-frequency data. <i>Freshwater Biology</i> , 2012, 57, 589-601.	1.2	135
10	PHYSIOLOGICAL RESPONSES OF <i>ECKLONIA RADIATA</i> (LAMINARIALES) TO A LATITUDINAL GRADIENT IN OCEAN TEMPERATURE. <i>Journal of Phycology</i> , 2009, 45, 91-99.	1.0	128
11	Seasonal changes in temperature and nutrient control of photosynthesis, respiration and growth of natural phytoplankton communities. <i>Freshwater Biology</i> , 2006, 51, 249-262.	1.2	122
12	Temporal dynamics and regulation of lake metabolism. <i>Limnology and Oceanography</i> , 2007, 52, 108-120.	1.6	117
13	Automatic High Frequency Monitoring for Improved Lake and Reservoir Management. <i>Environmental Science & Technology</i> , 2016, 50, 10780-10794.	4.6	104
14	Lake metabolism scales with lake morphometry and catchment conditions. <i>Aquatic Sciences</i> , 2012, 74, 155-169.	0.6	94
15	Diel Surface Temperature Range Scales with Lake Size. <i>PLoS ONE</i> , 2016, 11, e0152466.	1.1	89
16	Seasonal acclimation in metabolism reduces light requirements of eelgrass (<i>Zostera marina</i>). <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 407, 139-146.	0.7	80
17	Seasonal Dynamics of CO ₂ Flux Across the Surface of Shallow Temperate Lakes. <i>Ecosystems</i> , 2012, 15, 336-347.	1.6	75
18	Epibiota communities of the introduced and indigenous macroalgal relatives <i>Sargassum muticum</i> and <i>Halidrys siliquosa</i> in Limfjorden (Denmark). <i>Helgoland Marine Research</i> , 2004, 58, 154-161.	1.3	70

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19	Biomass dynamics of exotic <i>Sargassum muticum</i> and native <i>Halidrys siliquosa</i> in Limfjorden, Denmark – Implications of species replacements on turnover rates. <i>Aquatic Botany</i> , 2005, 83, 31-47.	0.8	62
20	Eutrophication Leads to Accumulation of Recalcitrant Autochthonous Organic Matter in Coastal Environment. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1673-1687.	1.9	61
21	Effects of the invasive macroalgae <i>Gracilaria vermiculophylla</i> on two co-occurring foundation species and associated invertebrates. <i>Aquatic Invasions</i> , 2013, 8, 133-145.	0.6	61
22	Ecosystem metabolism in a stratified lake. <i>Limnology and Oceanography</i> , 2012, 57, 1317-1330.	1.6	59
23	Photoacclimation of four marine phytoplankton species to irradiance and nutrient availability. <i>Marine Ecology - Progress Series</i> , 2002, 238, 47-59.	0.9	59
24	Non-indigenous species refined national baseline inventories: A synthesis in the context of the European Union's Marine Strategy Framework Directive. <i>Marine Pollution Bulletin</i> , 2019, 145, 429-435.	2.3	58
25	Vertical patterns of metabolism in three contrasting stratified lakes. <i>Limnology and Oceanography</i> , 2014, 59, 1228-1240.	1.6	57
26	<i>Gracilaria vermiculophylla</i> (Ohmi) Papenfuss, 1967 (Rhodophyta, Gracilariaceae) in northern Europe, with emphasis on Danish conditions, and what to expect in the future. <i>Aquatic Invasions</i> , 2007, 2, 83-94.	0.6	57
27	Temperature acclimation of growth, photosynthesis and respiration in two mesophilic phytoplankton species. <i>Phycologia</i> , 2006, 45, 648-656.	0.6	55
28	Detection of <i>Karenia mikimotoi</i> by spectral absorption signatures. <i>Journal of Plankton Research</i> , 2003, 25, 1237-1249.	0.8	49
29	Spatio-temporal distribution patterns of the invasive macroalga <i>Sargassum muticum</i> within a Danish <i>Sargassum</i> -bed. <i>Helgoland Marine Research</i> , 2006, 60, 50-58.	1.3	49
30	Decadal Changes in Water Quality and Net Productivity of a Shallow Danish Estuary Following Significant Nutrient Reductions. <i>Estuaries and Coasts</i> , 2017, 40, 63-79.	1.0	48
31	Scaling of Pelagic Metabolism to Size, Trophy and Forest Cover in Small Danish Lakes. <i>Ecosystems</i> , 2007, 10, 128-142.	1.6	47
32	Net Heterotrophy in Small Danish Lakes: A Widespread Feature Over Gradients in Trophic Status and Land Cover. <i>Ecosystems</i> , 2009, 12, 336-348.	1.6	47
33	Drivers of metabolism and net heterotrophy in contrasting lakes. <i>Limnology and Oceanography</i> , 2010, 55, 817-830.	1.6	46
34	Comparative Phenology of <i>Sargassum muticum</i> and <i>Halidrys siliquosa</i> (Phaeophyceae: Fucales) in Limfjorden, Denmark. <i>Botanica Marina</i> , 2001, 44, .	0.6	44
35	Fluctuating water levels control water chemistry and metabolism of a charophyte-dominated pond. <i>Freshwater Biology</i> , 2013, 58, 1353-1365.	1.2	40
36	Delving deeper: Metabolic processes in the metalimnion of stratified lakes. <i>Limnology and Oceanography</i> , 2017, 62, 1288-1306.	1.6	40

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37	Drivers of metabolism and net heterotrophy in contrasting lakes. <i>Limnology and Oceanography</i> , 2010, 55, 817-830.	1.6	38
38	CO ₂ dynamics along Danish lowland streams: water-air gradients, piston velocities and evasion rates. <i>Biogeochemistry</i> , 2012, 111, 615-628.	1.7	37
39	Parameterization of the chlorophyll a-specific in vivo light absorption coefficient covering estuarine, coastal and oceanic waters. <i>International Journal of Remote Sensing</i> , 2004, 25, 5117-5130.	1.3	36
40	Temperature- and light-dependent growth and metabolism of the invasive red algae <i>Gracilaria vermiculophylla</i> a comparison with two native macroalgae. <i>European Journal of Phycology</i> , 2013, 48, 295-308.	0.9	35
41	The potential of high-frequency profiling to assess vertical and seasonal patterns of phytoplankton dynamics in lakes: an extension of the Plankton Ecology Group (PEG) model. <i>Inland Waters</i> , 2016, 6, 565-580.	1.1	34
42	A Marine Biodiversity Observation Network for Genetic Monitoring of Hard-Bottom Communities (ARMS-MBON). <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	34
43	Development of phytoplankton communities: Implications of nutrient injections on phytoplankton composition, pH and ecosystem production. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 473, 81-89.	0.7	32
44	Seasonality of freshwater bacterioplankton diversity in two tropical shallow lakes from the Brazilian Atlantic Forest. <i>FEMS Microbiology Ecology</i> , 2017, 93, fiw218.	1.3	31
45	Linking shifts in bacterial community with changes in dissolved organic matter pool in a tropical lake. <i>Science of the Total Environment</i> , 2019, 672, 990-1003.	3.9	31
46	Seasonal Changes in Metabolic Rates of Two Tropical Lakes in the Atlantic Forest of Brazil. <i>Ecosystems</i> , 2015, 18, 589-604.	1.6	30
47	Global patterns of light saturation and photoinhibition of lake primary production. <i>Inland Waters</i> , 2016, 6, 593-607.	1.1	28
48	Alien macroalgae in Denmark – a broad-scale national perspective. <i>Marine Biology Research</i> , 2007, 3, 61-72.	0.3	25
49	Wind and trophic status explain within and among-lake variability of algal biomass. <i>Limnology and Oceanography Letters</i> , 2018, 3, 409-418.	1.6	24
50	Distinctive effects of allochthonous and autochthonous organic matter on CDOM spectra in a tropical lake. <i>Biogeosciences</i> , 2018, 15, 2931-2943.	1.3	24
51	Pigment specific in vivo light absorption of phytoplankton from estuarine, coastal and oceanic waters. <i>Marine Ecology - Progress Series</i> , 2004, 275, 115-128.	0.9	23
52	Spatial variability of methane (CH ₄) ebullition in a tropical hypereutrophic reservoir: silted areas as a bubble hot spot. <i>Lake and Reservoir Management</i> , 2018, 34, 105-114.	0.4	22
53	Hydrological Conditions Control P Loading and Aquatic Metabolism in an Oligotrophic, Subtropical Estuary. <i>Estuaries and Coasts</i> , 2012, 35, 292-307.	1.0	21
54	Physical conditions driving the spatial and temporal variability in aquatic metabolism of a subtropical coastal lake. <i>Limnologica</i> , 2016, 58, 30-40.	0.7	21

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55	Low contribution of internal metabolism to carbon dioxide emissions along lotic and lentic environments of a Mediterranean fluvial network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 3030-3044.	1.3	20
56	Changes in CO ₂ dynamics related to rainfall and water level variations in a subtropical lake. <i>Hydrobiologia</i> , 2017, 794, 109-123.	1.0	20
57	Occurrence and distribution of antifouling biocide Irgarol-1051 in coral reef ecosystems, Zanzibar. <i>Marine Pollution Bulletin</i> , 2016, 109, 586-590.	2.3	19
58	Ecosystem metabolism in a lake restored by hypolimnetic withdrawal. <i>Ecological Engineering</i> , 2014, 73, 616-623.	1.6	17
59	Role of Eelgrass in the Coastal Filter of Contrasting Baltic Sea Environments. <i>Estuaries and Coasts</i> , 2019, 42, 1882-1895.	1.0	14
60	Managing human pressures to restore ecosystem health of zanzibar coastal waters. <i>Journal of Aquaculture & Marine Biology</i> , 2018, 7, .	0.2	14
61	Importance of nutrients, organic matter and light availability on epilimnetic metabolic rates in a mesotrophic tropical lake. <i>Freshwater Biology</i> , 2018, 63, 1143-1160.	1.2	13
62	Habitat Model of Eelgrass in Danish Coastal Waters: Development, Validation and Management Perspectives. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	13
63	Surface microlayers on temperate lowland lakes. <i>Hydrobiologia</i> , 2009, 625, 43-59.	1.0	12
64	Adoption and consequences of new light-fishing technology (LEDs) on Lake Tanganyika, East Africa. <i>PLoS ONE</i> , 2019, 14, e0216580.	1.1	12
65	Bring fishermen at the center: the value of local knowledge for understanding fisheries resources and climate-related changes in Lake Tanganyika. <i>Environment, Development and Sustainability</i> , 2020, 22, 5621-5649.	2.7	12
66	Temporal variability of air-sea CO ₂ exchange in a low-emission estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 176, 1-11.	0.9	11
67	Seasonal patterns of thermal stratification and primary production in the northern parts of Lake Tanganyika. <i>Journal of Great Lakes Research</i> , 2018, 44, 1209-1220.	0.8	11
68	Ecosystem metabolism of benthic and pelagic zones of a shallow productive estuary: spatio-temporal variability. <i>Marine Ecology - Progress Series</i> , 2018, 601, 15-32.	0.9	11
69	Trends in records and contribution of non-indigenous and cryptogenic species to marine communities in Danish waters: potential indicators for assessing impact. <i>Aquatic Invasions</i> , 2020, 15, 217-244.	0.6	9
70	Suitability of multisensory satellites for long-term chlorophyll assessment in coastal waters: A case study in optically-complex waters of the temperate region. <i>Ecological Indicators</i> , 2022, 134, 108479.	2.6	9
71	Effects of nutrients and organic matter inputs in the gases CO ₂ and O ₂ : A mesocosm study in a tropical lake. <i>Limnologia</i> , 2018, 69, 1-9.	0.7	8
72	Effects of sewage water on bio-optical properties and primary production of coastal systems in West Australia. <i>Hydrobiologia</i> , 2009, 620, 191-205.	1.0	7

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73	Robust estimation of lake metabolism by coupling high frequency dissolved oxygen and chlorophyll fluorescence data in a Bayesian framework. <i>Inland Waters</i> , 2016, 6, 608-621.	1.1	7
74	Seasonal changes in optical properties of two contrasting tropical freshwater systems. <i>Journal of Limnology</i> , 2016, , .	0.3	6
75	Reduced Rainfall Increases Metabolic Rates in Upper Mixed Layers of Tropical Lakes. <i>Ecosystems</i> , 2019, 22, 1406-1423.	1.6	6
76	Annual changes in abundance of non-indigenous marine benthos on a very large spatial scale. <i>Aquatic Invasions</i> , 2008, 3, 133-140.	0.6	6
77	Partitioning of the diffuse attenuation coefficient for photosynthetically available irradiance in a deep dendritic tropical lake. <i>Anais Da Academia Brasileira De Ciencias</i> , 2017, 89, 469-489.	0.3	5
78	Patterns of dark respiration in aquatic systems. <i>Marine and Freshwater Research</i> , 2020, 71, 432.	0.7	5
79	Contribution of boulder reef habitats to oxygen dynamics of a shallow estuary. <i>Science of the Total Environment</i> , 2022, 805, 150261.	3.9	3
80	Ecological Interactions between Marine Plants and Alien Species. , 2016, , 226-249.		3
81	Rainfall and drainage basin shape strongly control temporal and spatial variation of dissolved organic matter in a tropical lake. <i>Limnology</i> , 0, , 1.	0.8	0