Sally MacIntyre

List of Publications by Year
in descending order

88 papers	7,172 citations	71102 41 h-index	58581 82 g-index
89 all docs	89 docs citations	89 times ranked	6509 citing authors

#	Article	IF	Citations
1	Ozone depletion: ultraviolet radiation and phytoplankton biology in antarctic waters. Science, 1992, 255, 952-959.	12.6	900
2	Rapid and highly variable warming of lake surface waters around the globe. Geophysical Research Letters, 2015, 42, 10,773.	4.0	767
3	Climate-sensitive northern lakes and ponds are critical components of methane release. Nature Geoscience, 2016, 9, 99-105.	12.9	357
4	Ecology under lake ice. Ecology Letters, 2017, 20, 98-111.	6.4	320
5	Boundary mixing and nutrient fluxes in Mono Lake, California. Limnology and Oceanography, 1999, 44, 512-529.	3.1	240
6	Accumulation of marines now at density discontinuities in the water column. Limnology and Oceanography, 1995, 40, 449-468.	3.1	219
7	Lakeâ€size dependency of wind shear and convection as controls on gas exchange. Geophysical Research Letters, 2012, 39, .	4.0	199
8	Variability in greenhouse gas emissions from permafrost thaw ponds. Limnology and Oceanography, 2010, 55, 115-133.	3.1	198
9	Buoyancy flux, turbulence, and the gas transfer coefficient in a stratified lake. Geophysical Research Letters, 2010, 37, .	4.0	183
10	Characteristics, distribution and persistence of thin layers over a 48 hour period. Marine Ecology - Progress Series, 2003, 261, 1-19.	1.9	171
11	Spatialâ€temporal variability in surface layer deepening and lateral advection in an embayment of Lake Victoria, East Africa. Limnology and Oceanography, 2002, 47, 656-671.	3.1	164
12	CO2exchange between air and water in an Arctic Alaskan and midlatitude Swiss lake: Importance of convective mixing. Journal of Geophysical Research, 2003, 108, .	3.3	153
13	A global database of lake surface temperatures collected by in situ and satellite methods from 1985â€“2009. Scientific Data, 2015, 2, 150008.	5.3	153
14	Spatial patterns of flow and their modification within and around a giant kelp forest. Limnology and Oceanography, 2007, 52, 1838-1852.	3.1	148
15	Tropospheric methane from an Amazonian floodplain lake. Journal of Geophysical Research, 1988, 93, 1564-1570.	3.3	142
16	Vertical mixing in a shallow, eutrophic lake: Possible consequences for the light climate of phytoplankton. Limnology and Oceanography, 1993, 38, 798-817.	3.1	135
17	Vertical and Horizontal Transport in Lakes: Linking Littoral, Benthic, and Pelagic Habitats. Journal of the North American Benthological Society, 1995, 14, 599-615.	3.1	113
18	Modeling lakes and reservoirs in the climate system. Limnology and Oceanography, 2009, 54, 2315-2329.	3.1	101

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19	Energy input is primary controller of methane bubbling in subarctic lakes. Geophysical Research Letters, 2014, 41, 555-560.	4.0	96
20	A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. Environmental Modelling and Software, 2018, 102, 274-291.	4.5	93
21	Climateâ€related variations in mixing dynamics in an Alaskan arctic lake. Limnology and Oceanography, 2009, 54, 2401-2417.	3.1	92
22	Physical pathways and utilization of nitrate supply to the giant kelp, Macrocystis pyrifera. Limnology and Oceanography, 2008, 53, 1589-1603.	3.1	78
23	Physical pathways of nutrient supply in a small, ultraoligotrophic arctic lake during summer stratification. Limnology and Oceanography, 2006, 51, 1107-1124.	3.1	74
24	Effects of cooling and internal wave motions on gas transfer coefficients in a boreal lake. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 22827.	1.6	74
25	Meromixis in an equatorial African soda lake1. Limnology and Oceanography, 1982, 27, 595-609.	3.1	72
26	PHYSICAL STRUCTURE OF LAKES CONSTRAINS EPIDEMICS INDAPHNIAPOPULATIONS. Ecology, 2006, 87, 1438-1444.	3.2	71
27	Large CO ₂ effluxes at night and during synoptic weather events significantly contribute to CO ₂ emissions from a reservoir. Environmental Research Letters, 2016, 11, 064001.	5.2	66
28	Evidence for sustained residence of macrocrustacean fecal pellets in surface waters off Southern California. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 1641-1652.	1.5	65
29	Similarity scaling of turbulence in a temperate lake during fall cooling. Journal of Geophysical Research: Oceans, 2014, 119, 4689-4713.	2.6	64
30	Oxygen dynamics in permafrost thaw lakes: Anaerobic bioreactors in the <scp>C</scp>anadian subarctic. Limnology and Oceanography, 2015, 60, 1656-1670.	3.1	59
31	Effects of climate change and episodic heat events on cyanobacteria in a eutrophic polymictic lake. Science of the Total Environment, 2019, 693, 133414.	8.0	58
32	Differences in growth, morphology and tissue carbon and nitrogen of Macrocystis pyrifera within and at the outer edge of a giant kelp forest in California, USA. Marine Ecology - Progress Series, 2009, 375, 101-112.	1.9	58
33	Orthophosphate turnover in East African lakes. Oecologia, 1976, 25, 313-319.	2.0	56
34	Stratification and horizontal exchange in Lake Victoria, East Africa. Limnology and Oceanography, 2014, 59, 1805-1838.	3.1	55
35	Turbulent mixing induced by nonlinear internal waves in Mono Lake, California. Limnology and Oceanography, 2009, 54, 2255-2272.	3.1	50
36	Climateâ€Sensitive Controls on Large Spring Emissions of CH₄ and CO₂ From Northern Lakes. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2379-2399.	3.0	50

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37	Depthâ€integrated estimates of ecosystem metabolism in a highâ€elevation lake (Emerald Lake, Sierra) Tj ETQq1 1 0.784314 rgBT /O	3.1	49
38	Winter Limnology: How do Hydrodynamics and Biogeochemistry Shape Ecosystems Under Ice?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006237.	3.0	47
39	Why Are Daphnia in Some Lakes Sicker? Disease Ecology, Habitat Structure, and the Plankton. BioScience, 2010, 60, 363-375.	4.9	45
40	Seasonal and spatial variability of CO₂emission from a large floodplain lake in the lower Amazon. Journal of Geophysical Research, 2011, 116, .	3.3	45
41	BAWLD-CH₄: a comprehensive dataset of methane fluxes from boreal and arctic ecosystems. Earth System Science Data, 2021, 13, 5151-5189.	9.9	44
42	Greenhouse gas emission and storage in a small shallow lake. Hydrobiologia, 2015, 757, 101-115.	2.0	43
43	Spatial and Temporal Variability in the Ecosystem Metabolism of a High-elevation Lake: Integrating Benthic and Pelagic Habitats. Ecosystems, 2011, 14, 1123-1140.	3.4	42
44	Sediment respiration drives circulation and production of CO₂ in iceâ€covered Alaskan arctic lakes. Limnology and Oceanography Letters, 2018, 3, 302-310.	3.9	42
45	A new large volume bioluminescence bathyphotometer with defined turbulence excitation. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 607-627.	1.4	40
46	Diel variations of marine snow concentration in surface waters and implications for particle flux in the sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 367-395.	1.4	38
47	The Nile perch invasion in Lake Victoria: cause or consequence of the haplochromine decline?. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 622-643.	1.4	38
48	Mixing processes in small arctic lakes during spring. Limnology and Oceanography, 2020, 65, 260-288.	3.1	38
49	Internal wave effects on photosynthesis: Experiments, theory, and modeling. Limnology and Oceanography, 2008, 53, 339-353.	3.1	37
50	Effects of Wind and Buoyancy on Carbon Dioxide Distribution and Airâ€Water Flux of a Stratified Temperate Lake. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2305-2322.	3.0	35
51	Turbulence in a small arctic pond. Limnology and Oceanography, 2018, 63, 2337-2358.	3.1	34
52	Modelling the fate and transport of negatively buoyant stormâ€“river water in small multi-basin lakes. Environmental Modelling and Software, 2010, 25, 146-157.	4.5	33
53	Understanding the Temperature Variations and Thermal Structure of a Subtropical Deep River-Run Reservoir before and after Impoundment. Water (Switzerland), 2017, 9, 603.	2.7	33
54	Flowpath and retention of snowmelt in an iceâ€covered arctic lake. Limnology and Oceanography, 2017, 62, 2023-2044.	3.1	31

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55	Temporal and spatial variability of the internal wave field in a lake with complex morphometry. Limnology and Oceanography, 2013, 58, 1557-1580.	3.1	30
56	Spatial variability of nutrient concentrations, fluxes, and ecosystem metabolism in Nyanza Gulf and Rusinga Channel, Lake Victoria (East Africa). Limnology and Oceanography, 2013, 58, 774-789.	3.1	30
57	Variability of entrainment of cohesive sediments in freshwater. Biogeochemistry, 1990, 9, 187.	3.5	29
58	Density and conductivity properties of Naâˆ’CO3âˆ’Clâˆ’SO4 brine from Mono Lake, California, USA. International Journal of Salt Lake Research, 1999, 8, 41-53.	0.1	29
59	Persistent weak thermal stratification inhibits mixing in the epilimnion of north-temperate Lake Opeongo, Canada. Aquatic Sciences, 2014, 76, 187-201.	1.5	28
60	Dissolved methane concentrations and fluxes to the atmosphere from a tropical floodplain lake. Biogeochemistry, 2020, 148, 129-151.	3.5	27
61	Turbulence in a small boreal lake: Consequences for airâ€“water gas exchange. Limnology and Oceanography, 2021, 66, 827-854.	3.1	27
62	Dispersion of produced water in a coastal environment and its biological implications. Continental Shelf Research, 1999, 19, 57-78.	1.8	25
63	Flow paths and spatial heterogeneity of stream inflows in a small multibasin lake. Limnology and Oceanography, 2009, 54, 2041-2057.	3.1	24
64	Snowpack determines relative importance of climate factors driving summer lake warming. Limnology and Oceanography Letters, 2020, 5, 271-279.	3.9	23
65	Drivers of diffusive CH₄ emissions from shallow subarctic lakes on daily to multi-year timescales. Biogeosciences, 2020, 17, 1911-1932.	3.3	22
66	Stratification and mixing in large floodplain lakes along the lower Amazon River. Journal of Great Lakes Research, 2019, 45, 61-72.	1.9	20
67	Carbon Dioxide Fluxes to the Atmosphere From Waters Within Flooded Forests in the Amazon Basin. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005293.	3.0	20
68	Turbulence and Gas Transfer Velocities in Sheltered Flooded Forests of the Amazon Basin. Geophysical Research Letters, 2019, 46, 9628-9636.	4.0	18
69	Vertical and temporal distribution of two copepod species, Cyclops scutifer and Diaptomus pribilofensis, in 24 h arctic daylight. Journal of Plankton Research, 2007, 29, 275-289.	1.8	16
70	Inter- and intra-annual variations of pCO2 and pO2 in a freshwater subtropical coastal lake. Inland Waters, 2015, 5, 107-116.	2.2	16
71	Nocturnal escape route for marsh gas. Nature, 2016, 535, 363-365.	27.8	16
72	Need for harmonized long-term multi-lake monitoring of African Great Lakes. Journal of Great Lakes Research, 2023, 49, 101988.	1.9	16

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73	Hydrogen peroxide as a natural tracer of mixing in surface layers. Aquatic Sciences, 1998, 60, 169.	1.5	15
74	Temperature Proxies as a Solution to Biased Sampling of Lake Methane Emissions. Geophysical Research Letters, 2020, 47, e2020GL088647.	4.0	14
75	Diel Variability of CO₂ Emissions From Northern Lakes. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006246.	3.0	14
76	A flow-measuring system for use in small lakes1. Limnology and Oceanography, 1986, 31, 900-906.	3.1	13
77	The Response of Lakes Near the Arctic LTER to Environmental Change. , 2014, , 238-286.		13
78	Enhanced Turbulence in the Upper Mixed Layer Under Light Winds and Heating: Implications for Gas Fluxes. Journal of Geophysical Research: Oceans, 2021, 126, .	2.6	12
79	Variable Physical Drivers of Nearâ€Surface Turbulence in a Regulated River. Water Resources Research, 2021, 57, e2020WR027939.	4.2	11
80	Inundation, Hydrodynamics and Vegetation Influence Carbon Dioxide Concentrations in Amazon Floodplain Lakes. Ecosystems, 2022, 25, 911-930.	3.4	9
81	Global data set of long-term summertime vertical temperature profiles in 153 lakes. Scientific Data, 2021, 8, 200.	5.3	7
82	Turbulent Eddies and Their Implications for Phytoplankton within the Euphotic Zone of Lake Biwa, Japan. Japanese Journal of Limnology, 1996, 57, 395-410.	0.1	7
83	Physicochemical gradients and water fluxes between Nyanza Gulf and main Lake Victoria, East Africa: Tracing dynamics of gulf-main lake interaction. Journal of Great Lakes Research, 2018, 44, 1252-1263.	1.9	5
84	Improving biogeochemical knowledge through technological innovation. Frontiers in Ecology and the Environment, 2011, 9, 37-43.	4.0	4
85	Challenges Regionalizing Methane Emissions Using Aquatic Environments in the Amazon Basin as Examples. Frontiers in Environmental Science, 2022, 10, .	3.3	4
86	Morphometry and Physical Processes of East African Soda Lakes. , 2016, , 61-76.		3
87	Integrated approach towards quantifying carbon dioxide and methane release from waste stabilization ponds. Water Research, 2021, 202, 117389.	11.3	3
88	Oxygen dynamics in permafrost thaw lakes: Anaerobic bioreactors in the Canadian subarctic. , 2015, 60, 1656.		1