Gordon Holtgrieve

List of Publications by Year
in descending order

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Version: 2024-02-01

49 papers	2,478 citations	257101 24 h-index	214527 47 g-index
51 all docs	51 docs citations	51 times ranked	3846 citing authors

#	Article	IF	Citations
1	A Coherent Signature of Anthropogenic Nitrogen Deposition to Remote Watersheds of the Northern Hemisphere. Science, 2011, 334, 1545-1548.	6.0	309
2	Physical controls on carbon dioxide transfer velocity and flux in low-gradient river systems and implications for regional carbon budgets. Journal of Geophysical Research, 2011, 116, .	3.3	219
3	Impacts of hydropower and climate change on drivers of ecological productivity of Southeast Asia's most important wetland. Ecological Modelling, 2014, 272, 252-263.	1.2	190
4	Designing river flows to improve food security futures in the Lower Mekong Basin. Science, 2017, 358, .	6.0	176
5	Animating the Carbon Cycle. Ecosystems, 2014, 17, 344-359.	1.6	168
6	Simultaneous quantification of aquatic ecosystem metabolism and reaeration using a Bayesian statistical model of oxygen dynamics. Limnology and Oceanography, 2010, 55, 1047-1063.	1.6	156
7	BIOTIC CONTROL OF STREAM FLUXES: SPAWNING SALMON DRIVE NUTRIENT AND MATTER EXPORT. Ecology, 2007, 88, 1278-1291.	1.5	124
8	Habitat structure determines resource use by zooplankton in temperate lakes. Ecology Letters, 2011, 14, 364-372.	3.0	101
9	Marine-derived nutrients, bioturbation, and ecosystem metabolism: reconsidering the role of salmon in streams. Ecology, 2011, 92, 373-385.	1.5	90
10	A Fatty Acid Based Bayesian Approach for Inferring Diet in Aquatic Consumers. PLoS ONE, 2015, 10, e0129723.	1.1	60
11	Negligible cycling of terrestrial carbon in many lakes of the arid circumpolar landscape. Nature Geoscience, 2019, 12, 180-185.	5.4	60
12	Large predators and biogeochemical hotspots: brown bear (Ursus arctos) predation on salmon alters nitrogen cycling in riparian soils. Ecological Research, 2009, 24, 1125-1135.	0.7	57
13	Food webs and the sustainability of indiscriminate fisheries. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 656-665.	0.7	55
14	Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the past five centuries. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1750-1755.	3.3	53
15	Seasonal increases in fish trophic niche plasticity within a floodâ€pulse river ecosystem (Tonle Sap Lake,) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	51
16	Variations in soil N cycling and trace gas emissions in wet tropical forests. Oecologia, 2006, 146, 584-594.	0.9	49
17	Patterns of Ecosystem Metabolism in the Tonle Sap Lake, Cambodia with Links to Capture Fisheries. PLoS ONE, 2013, 8, e71395.	1.1	45
18	Consumer trophic positions respond variably to seasonally fluctuating environments. Ecology, 2019, 100, e02570.	1.5	41

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19	Maintaining perspective of ongoing environmental change in the Mekong floodplains. Current Opinion in Environmental Sustainability, 2019, 37, 1-7.	3.1	41
20	Stream geomorphology regulates the effects on periphyton of ecosystem engineering and nutrient enrichment by Pacific salmon. Freshwater Biology, 2010, 55, 2598-2611.	1.2	36
21	Bioaccumulation and Transport of Contaminants: Migrating Sockeye Salmon As Vectors of Mercury. Environmental Science & Technology, 2009, 43, 8840-8846.	4.6	35
22	Ocean acidification and warming effects on the physiology, skeletal properties, and microbiome of the purple-hinge rock scallop. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 240, 110579.	0.8	31
23	Spatial and temporal variability of turbidity, dissolved oxygen, conductivity, temperature, and fluorescence in the lower Mekong Riverâ€“Tonle Sap system identified using continuous monitoring. International Journal of River Basin Management, 2011, 9, 151-168.	1.5	30
24	Does lipid-correction introduce biases into isotopic mixing models? Implications for diet reconstruction studies. Oecologia, 2019, 191, 745-755.	0.9	29
25	Assessing nonpointâ€source nitrogen loading and nitrogen fixation in lakes using Î´¹⁵N and nutrient stoichiometry. Limnology and Oceanography, 2012, 57, 671-683.	1.6	28
26	Widespread variability in overnight patterns of ecosystem respiration linked to gradients in dissolved organic matter, residence time, and productivity in a global set of lakes. Limnology and Oceanography, 2014, 59, 1666-1678.	1.6	22
27	Aquatic ecosystem metabolism as a tool in environmental management. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1521.	2.8	22
28	An assessment of assumptions and uncertainty in deuteriumâ€based estimates of terrestrial subsidies to aquatic consumers. Ecology, 2018, 99, 1073-1088.	1.5	18
29	Hydropowerâ€™s hidden transformation of rivers in the Mekong. Environmental Research Letters, 2020, 15, 044017.	2.2	18
30	Twoâ€stage metabolism inferred from diel oxygen dynamics in aquatic ecosystems. Ecosphere, 2017, 8, e01867.	1.0	17
31	Watershed geomorphology interacts with precipitation to influence the magnitude and source of CO₂ emissions from Alaskan streams. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1903-1921.	1.3	17
32	Comment on Demars et al. 2015, â€œStream metabolism and the open diel oxygen method: Principles, practice, and perspectivesâ€• Limnology and Oceanography: Methods, 2016, 14, 110-113.	1.0	16
33	Linking humans to food webs: a framework for the classification of global fisheries. Frontiers in Ecology and the Environment, 2018, 16, 412-420.	1.9	12
34	Recent warming of Tonle Sap Lake, Cambodia: Implications for one of the worldâ€™s most productive inland fisheries. Lakes and Reservoirs: Research and Management, 2020, 25, 133-142.	0.6	11
35	Predicting the Likely Thermal Impact of Current and Future Dams Around the World. Earth's Future, 2021, 9, e2020EF001916.	2.4	11
36	Monitoring of tropical freshwater fish resources for sustainable use. Journal of Fish Biology, 2019, 94, 1019-1025.	0.7	10

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37	A SALTY DIVIDE WITHIN ASLO?. Limnology and Oceanography Bulletin, 2013, 22, 34-37.	0.2	8
38	Magnitudes and Drivers of Greenhouse Gas Fluxes in Floodplain Ponds During Drawdown and Inundation by the Three Gorges Reservoir. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2499-2517.	1.3	8
39	Stable isotope signatures in historic harbor seal bone link food webâ€assimilated carbon and nitrogen resources to a century of environmental change. Global Change Biology, 2021, 27, 2328-2342.	4.2	8
40	Fish assemblage composition within the floodplain habitat mosaic of a tropical lake (Tonle Sap,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.2	7
41	Coupled CH ₄ production and oxidation support CO ₂ supersaturation in a tropical flood pulse lake (Tonle Sap Lake, Cambodia). Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	7
42	Riparian soil nitrogen cycling and isotopic enrichment in response to a longâ€term salmon carcass manipulation experiment. Ecosphere, 2019, 10, e02958.	1.0	6
43	Ecological dynamics of a peri-urban lake: a multi-proxy paleolimnological study of Cultus Lake (British) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	6
44	Low Levels of Allochthony in Consumers Across Three High-Elevation Lake Types. Ecosystems, 2018, 21, 1101-1117.	1.6	5
45	Response to Comments on â€œDesigning river flows to improve food security futures in the Lower Mekong Basinâ€• Science, 2018, 361, .	6.0	4
46	Optimizing Amazonian dams for nature. Science, 2022, 375, 714-715.	6.0	4
47	Reintroduced Beavers Rapidly Influence the Storage and Biogeochemistry of Sediments in Headwater Streams (Methow River, Washington). Northwest Science, 2019, 93, 112.	0.1	3
48	Response to Comment on â€œDesigning river flows to improve food security futures in the Lower Mekong Basinâ€• Science, 2019, 364, .	6.0	2
49	Population structure and habitat availability determine resource use by Rainbow Trout in high elevation lakes. Freshwater Science, 2021, 40, 508-523.	0.9	2