

Denis Gilbert

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

6,222
citations

201385

27
h-index

276539

41
g-index

48
all docs

48
docs citations

48
times ranked

7101
citing authors

#	ARTICLE	IF	CITATIONS
1	Declining oxygen in the global ocean and coastal waters. <i>Science</i> , 2018, 359, .	6.0	1,707
2	Dynamics and distribution of natural and human-caused hypoxia. <i>Biogeosciences</i> , 2010, 7, 585-619.	1.3	880
3	Fifteen years of ocean observations with the global Argo array. <i>Nature Climate Change</i> , 2016, 6, 145-153.	8.1	380
4	Natural and human-induced hypoxia and consequences for coastal areas: synthesis and future development. <i>Biogeosciences</i> , 2010, 7, 1443-1467.	1.3	358
5	Impacts of hypoxia on the structure and processes in pelagic communities (zooplankton,) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.3	356
6	Temporal responses of coastal hypoxia to nutrient loading and physical controls. <i>Biogeosciences</i> , 2009, 6, 2985-3008.	1.3	320
7	A seventy-two-year record of diminishing deep-water oxygen in the St. Lawrence estuary: The northwest Atlantic connection. <i>Limnology and Oceanography</i> , 2005, 50, 1654-1666.	1.6	212
8	Evidence for greater oxygen decline rates in the coastal ocean than in the open ocean. <i>Biogeosciences</i> , 2010, 7, 2283-2296.	1.3	204
9	Modeling the formation and circulation processes of water masses and sea ice in the Gulf of St. Lawrence, Canada. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	153
10	Abrupt transitions of the top-down controlled Black Sea pelagic ecosystem during 1960â€“2000: Evidence for regime-shifts under strong fishery exploitation and nutrient enrichment modulated by climate-induced variations. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 220-242.	0.6	140
11	Modeling dissolved oxygen dynamics and hypoxia. <i>Biogeosciences</i> , 2010, 7, 933-957.	1.3	119
12	Argo Data 1999â€“2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	117
13	Implications for Ocean Mixing of Internal Wave Scattering off Irregular Topography. <i>Journal of Physical Oceanography</i> , 1989, 19, 1716-1729.	0.7	85
14	A climatology-based quality control procedure for profiling float oxygen data. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5640-5650.	1.0	76
15	Acidification of Lower St. Lawrence Estuary Bottom Waters. <i>Atmosphere - Ocean</i> , 2011, 49, 206-218.	0.6	74
16	Air Oxygen Calibration of Oxygen Optodes on a Profiling Float Array. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 2160-2172.	0.5	70
17	Interannual variability (1948Â–1994) of the CIL core temperature in the Gulf of St. Lawrence. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 57-67.	0.7	69
18	Growth, condition, and environmental relationships in Atlantic cod (<i>Gadus morhua</i>) in the northern Gulf of St. Lawrence and implications for management strategies in the Northwest Atlantic. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 1818-1831.	0.7	69

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19	Rapid coastal deoxygenation due to ocean circulation shift in the northwest Atlantic. <i>Nature Climate Change</i> , 2018, 8, 868-872.	8.1	69
20	Interannual variability (1948–1994) of the CIL core temperature in the Gulf of St. Lawrence. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 57-67.	0.7	63
21	Distribution changes of Atlantic cod (<i>Gadus morhua</i> L.) in the northern Gulf of St Lawrence in relation to an oceanic cooling. <i>ICES Journal of Marine Science</i> , 1999, 56, 333-344.	1.2	62
22	Distribution and habitat selection of early benthic stages of snow crab <i>Chionoecetes opilio</i> . <i>Marine Ecology - Progress Series</i> , 2003, 259, 117-128.	0.9	52
23	Aerobic respiration and hypoxia in the Lower St. Lawrence Estuary: Stable isotope ratios of dissolved oxygen constrain oxygen sink partitioning. <i>Limnology and Oceanography</i> , 2009, 54, 2157-2169.	1.6	46
24	Recent changes in bottom water oxygenation and temperature in the Gulf of St. Lawrence: Micropaleontological and geochemical evidence. <i>Limnology and Oceanography</i> , 2011, 56, 1319-1329.	1.6	41
25	Hydrographic Variability in the Waters of the Gulf of St. Lawrence, the Scotian Shelf and the Eastern Gulf of Maine (NAFO Subarea 4) During 1991-2000. <i>Journal of Northwest Atlantic Fishery Science</i> , 0, 34, 85-101.	1.4	38
26	Real-time estimation of pH and aragonite saturation state from Argo profiling floats: Prospects for an autonomous carbon observing strategy. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	37
27	Hydrological and biological processes modulate carbon, nitrogen and phosphorus flux from the St. Lawrence River to its estuary (Quebec, Canada). <i>Biogeochemistry</i> , 2017, 135, 251-276.	1.7	36
28	Benthic nutrient fluxes along the Laurentian Channel: Impacts on the N budget of the St. Lawrence marine system. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 90, 195-205.	0.9	34
29	Oxycline variability in the central Arabian Sea: An Argo-oxygen study. <i>Journal of Sea Research</i> , 2012, 71, 1-8.	0.6	30
30	Estimates of Vertical Mixing by Internal Waves Reflected off a Sloping Bottom. <i>Elsevier Oceanography Series</i> , 1988, , 405-423.	0.1	27
31	Oxygen Saturation Surrounding Deep Water Formation Events in the Labrador Sea From Argo ² Data. <i>Global Biogeochemical Cycles</i> , 2018, 32, 635-653.	1.9	27
32	A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	26
33	Temporal Changes in the Causes of the Observed Oxygen Decline in the St. Lawrence Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016577.	1.0	25
34	Variability and wind forcing of ocean temperature and thermal fronts in the Scotian Shelf region of the Northwest Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7325-7343.	1.0	24
35	Projections of Future Trends in Biogeochemical Conditions in the Northwest Atlantic Using CMIP5 Earth System Models. <i>Atmosphere - Ocean</i> , 2019, 57, 18-40.	0.6	24
36	Hypoxia in the Lower St. Lawrence Estuary: How physics controls spatial patterns. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20

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37	Tidally induced variations of pH at the head of the Laurentian Channel. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 1128-1141.	0.7	20
38	Variability of the directly observed, middepth subpolar North Atlantic circulation. Geophysical Research Letters, 2016, 43, 2700-2708.	1.5	16
39	A search for evidence of critical internal wave reflection on the continental rise and slope off Nova Scotia. Atmosphere - Ocean, 1993, 31, 99-122.	0.6	14
40	Oceans lose oxygen. Nature, 2017, 542, 303-304.	13.7	9
41	The Gulf of St. Lawrence Biogeochemical Model: A Modelling Tool for Fisheries and Ocean Management. Frontiers in Marine Science, 2021, 8, .	1.2	5
42	Estimate of the steric contribution to global sea level rise from a comparison of the WOCE one-time survey with 2006-2008 Argo observations. Atmosphere - Ocean, 2009, 47, 292-298.	0.6	1
43	Oceanography and Quaternary geology of the St. Lawrence Estuary and the Saguenay Fjord. IOP Conference Series: Earth and Environmental Science, 2011, 14, 012004.	0.2	0