

Eric D Galbraith

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

8,973
citations

53660

45
h-index

45213

90
g-index

118
all docs

118
docs citations

118
times ranked

10386
citing authors

#	ARTICLE	IF	CITATIONS
1	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	5.4	1,627
2	Assessing the impacts of 1.5°C global warming – simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). <i>Geoscientific Model Development</i> , 2017, 10, 4321-4345.	1.3	410
3	Global ensemble projections reveal trophic amplification of ocean biomass declines with climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12907-12912.	3.3	357
4	Future changes in climate, ocean circulation, ecosystems, and biogeochemical cycling simulated for a business-as-usual CO ₂ emission scenario until year 4000 AD. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	327
5	A review of nitrogen isotopic alteration in marine sediments. <i>Paleoceanography</i> , 2012, 27, .	3.0	240
6	How well do global ocean biogeochemistry models simulate dissolved iron distributions?. <i>Global Biogeochemical Cycles</i> , 2016, 30, 149-174.	1.9	230
7	Cessation of deep convection in the open Southern Ocean under anthropogenic climate change. <i>Nature Climate Change</i> , 2014, 4, 278-282.	8.1	215
8	Intensification of open-ocean oxygen depletion by vertically migrating animals. <i>Nature Geoscience</i> , 2013, 6, 545-548.	5.4	209
9	Carbon dioxide release from the North Pacific abyss during the last deglaciation. <i>Nature</i> , 2007, 449, 890-893.	13.7	201
10	Simulating the global distribution of nitrogen isotopes in the ocean. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	186
11	Data-based estimates of suboxia, denitrification, and N ₂ O production in the ocean and their sensitivities to dissolved O ₂ . <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	183
12	Large climate-driven changes of oceanic oxygen concentrations during the last deglaciation. <i>Nature Geoscience</i> , 2012, 5, 151-156.	5.4	182
13	Glacial greenhouse-gas fluctuations controlled by ocean circulation changes. <i>Nature</i> , 2008, 456, 373-376.	13.7	179
14	Covariation of deep Southern Ocean oxygenation and atmospheric CO ₂ through the last ice age. <i>Nature</i> , 2016, 530, 207-210.	13.7	173
15	A simple nutrient-dependence mechanism for predicting the stoichiometry of marine ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8199-8204.	3.3	170
16	Linked sustainability challenges and trade-offs among fisheries, aquaculture and agriculture. <i>Nature Ecology and Evolution</i> , 2017, 1, 1240-1249.	3.4	161
17	Regional impacts of iron-light colimitation in a global biogeochemical model. <i>Biogeosciences</i> , 2010, 7, 1043-1064.	1.3	152
18	Twenty-first-century climate change impacts on marine animal biomass and ecosystem structure across ocean basins. <i>Global Change Biology</i> , 2019, 25, 459-472.	4.2	151

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19	Subarctic Pacific evidence for a glacial deepening of the oceanic respired carbon pool. <i>Earth and Planetary Science Letters</i> , 2009, 277, 156-165.	1.8	129
20	Nitrogen isotopes in bulk marine sediment: linking seafloor observations with subseafloor records. <i>Biogeosciences</i> , 2013, 10, 101-118.	1.3	127
21	A protocol for the intercomparison of marine fishery and ecosystem models: Fish-MIP v1.0. <i>Geoscientific Model Development</i> , 2018, 11, 1421-1442.	1.3	116
22	Diel vertical migration: Ecological controls and impacts on the biological pump in a one-dimensional ocean model. <i>Global Biogeochemical Cycles</i> , 2013, 27, 478-491.	1.9	113
23	Large fluctuations of dissolved oxygen in the Indian and Pacific oceans during Dansgaard-Oeschger oscillations caused by variations of North Atlantic Deep Water subduction. <i>Paleoceanography</i> , 2007, 22, .	3.0	104
24	Next-generation ensemble projections reveal higher climate risks for marine ecosystems. <i>Nature Climate Change</i> , 2021, 11, 973-981.	8.1	96
25	Linking scaling laws across eukaryotes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21616-21622.	3.3	95
26	Role of Mesoscale Eddies in Cross-Frontal Transport of Heat and Biogeochemical Tracers in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2015, 45, 3057-3081.	0.7	94
27	Climate Variability and Radiocarbon in the CM2Mc Earth System Model. <i>Journal of Climate</i> , 2011, 24, 4230-4254.	1.2	88
28	The acceleration of oceanic denitrification during deglacial warming. <i>Nature Geoscience</i> , 2013, 6, 579-584.	5.4	84
29	Global pulses of organic carbon burial in deep-sea sediments during glacial maxima. <i>Nature Communications</i> , 2016, 7, 10796.	5.8	84
30	Glacial-interglacial modulation of the marine nitrogen cycle by high-latitude O ₂ supply to the global thermocline. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	83
31	Consistent relationship between global climate and surface nitrate utilization in the western subarctic Pacific throughout the last 500 ka. <i>Paleoceanography</i> , 2008, 23, .	3.0	78
32	Glacial expansion of oxygen-depleted seawater in the eastern tropical Pacific. <i>Nature</i> , 2018, 562, 410-413.	13.7	78
33	Enhanced weathering and CO ₂ drawdown caused by latest Eocene strengthening of the Atlantic meridional overturning circulation. <i>Nature Geoscience</i> , 2017, 10, 213-216.	5.4	69
34	Rapid coastal deoxygenation due to ocean circulation shift in the northwest Atlantic. <i>Nature Climate Change</i> , 2018, 8, 868-872.	8.1	69
35	A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800kys. <i>Quaternary Science Reviews</i> , 2010, 29, 206-212.	1.4	68
36	The impact of atmospheric CO ₂ on carbon isotope ratios of the atmosphere and ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 307-324.	1.9	67

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37	Calibration of the carbon isotope composition ($\delta^{13}\text{C}$) of benthic foraminifera. <i>Paleoceanography</i> , 2017, 32, 512-530.	3.0	63
38	Metabolic impacts of climate change on marine ecosystems: Implications for fish communities and fisheries. <i>Global Ecology and Biogeography</i> , 2019, 28, 158-169.	2.7	62
39	Response of a comprehensive climate model to a broad range of external forcings: relevance for deep ocean ventilation and the development of late Cenozoic ice ages. <i>Climate Dynamics</i> , 2019, 52, 653-679.	1.7	61
40	Deglacial weakening of the oceanic soft tissue pump: global constraints from sedimentary nitrogen isotopes and oxygenation proxies. <i>Quaternary Science Reviews</i> , 2015, 109, 38-48.	1.4	59
41	A coupled human-Earth model perspective on long-term trends in the global marine fishery. <i>Nature Communications</i> , 2017, 8, 14884.	5.8	59
42	Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts. <i>Quaternary Science Reviews</i> , 2018, 180, 214-228.	1.4	58
43	Enhancement of anammox by the excretion of diel vertical migrators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15653-15658.	3.3	57
44	Estimating global biomass and biogeochemical cycling of marine fish with and without fishing. <i>Science Advances</i> , 2021, 7, eabd7554.	4.7	54
45	Biogeochemical Role of Subsurface Coherent Eddies in the Ocean: Tracer Cannonballs, Hypoxic Storms, and Microbial Stewpots?. <i>Global Biogeochemical Cycles</i> , 2018, 32, 226-249.	1.9	53
46	Denitrification under glacial and interglacial conditions: A physical approach. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	51
47	Complex functionality with minimal computation: Promise and pitfalls of reduced-tracer ocean biogeochemistry models. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 2012-2028.	1.3	49
48	Hosed vs. unhosed: interruptions of the Atlantic Meridional Overturning Circulation in a global coupled model, with and without freshwater forcing. <i>Climate of the Past</i> , 2016, 12, 1663-1679.	1.3	48
49	Preformed and regenerated phosphate in ocean general circulation models: can right total concentrations be wrong?. <i>Biogeosciences</i> , 2012, 9, 1797-1807.	1.3	47
50	Direct ventilation of the North Pacific did not reach the deep ocean during the last deglaciation. <i>Geophysical Research Letters</i> , 2013, 40, 199-203.	1.5	46
51	Response of the Ocean Natural Carbon Storage to Projected Twenty-First-Century Climate Change. <i>Journal of Climate</i> , 2014, 27, 2033-2053.	1.2	46
52	A novel estimate of ocean oxygen utilisation points to a reduced rate of respiration in the ocean interior. <i>Biogeosciences</i> , 2013, 10, 7723-7738.	1.3	43
53	Ocean (De)oxygenation Across the Last Deglaciation: Insights for the Future. <i>Oceanography</i> , 2014, 27, 26-35.	0.5	43
54	The ecological module of BOATS-1.0: a bioenergetically constrained model of marine upper trophic levels suitable for studies of fisheries and ocean biogeochemistry. <i>Geoscientific Model Development</i> , 2016, 9, 1545-1565.	1.3	43

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55	Western U.S. lake expansions during Heinrich stadials linked to Pacific Hadley circulation. <i>Science Advances</i> , 2018, 4, eaav0118.	4.7	42
56	Disentangling diverse responses to climate change among global marine ecosystem models. <i>Progress in Oceanography</i> , 2021, 198, 102659.	1.5	42
57	Impact of Weddell Sea deep convection on natural and anthropogenic carbon in a climate model. <i>Geophysical Research Letters</i> , 2014, 41, 7262-7269.	1.5	39
58	Carbon burial in deep-sea sediment and implications for oceanic inventories of carbon and alkalinity over the last glacial cycle. <i>Climate of the Past</i> , 2018, 14, 1819-1850.	1.3	39
59	Interhemispheric gradient of atmospheric radiocarbon reveals natural variability of Southern Ocean winds. <i>Climate of the Past</i> , 2011, 7, 1123-1138.	1.3	37
60	Seasonal variability in global industrial fishing effort. <i>PLoS ONE</i> , 2019, 14, e0216819.	1.1	37
61	Climate change impacts on marine ecosystems through the lens of the size spectrum. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 233-243.	1.1	37
62	A lower limit to atmospheric CO ₂ concentrations over the past 800,000 years. <i>Nature Geoscience</i> , 2017, 10, 295-298.	5.4	36
63	The global ocean size spectrum from bacteria to whales. <i>Science Advances</i> , 2021, 7, eabh3732.	4.7	36
64	The Biological Pump During the Last Glacial Maximum. <i>Annual Review of Marine Science</i> , 2020, 12, 559-586.	5.1	34
65	Coupled climate impacts of the Drake Passage and the Panama Seaway. <i>Climate Dynamics</i> , 2014, 43, 37-52.	1.7	33
66	North Atlantic ventilation of "southern-sourced" deep water in the glacial ocean. <i>Paleoceanography</i> , 2012, 27, .	3.0	32
67	The Deep Ocean Buoyancy Budget and Its Temporal Variability. <i>Journal of Climate</i> , 2014, 27, 551-573.	1.2	29
68	Smaller fish species in a warm and oxygen-poor Humboldt Current system. <i>Science</i> , 2022, 375, 101-104.	6.0	29
69	Nitrogen in Past Marine Environments. , 2008, , 1497-1535.		28
70	Formulation, General Features and Global Calibration of a Bioenergetically-Constrained Fishery Model. <i>PLoS ONE</i> , 2017, 12, e0169763.	1.1	26
71	The devil's in the disequilibrium: multi-component analysis of dissolved carbon and oxygen changes under a broad range of forcings in a general circulation model. <i>Biogeosciences</i> , 2018, 15, 3761-3777.	1.3	26
72	Upwelling in the Ocean Basins North of the ACC: 1. On the Upwelling Exposed by the Surface Distribution of $\bar{\sigma}_\theta > 14$. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2591-2608.	1.0	25

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73	A dual-track transition to global carbon pricing. <i>Climate Policy</i> , 2020, 20, 1057-1069.	2.6	25
74	A mid-Holocene transition in the nitrogen dynamics of the western equatorial Pacific: Evidence of a deepening thermocline?. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	23
75	Destabilization of glacial climate by the radiative impact of Atlantic Meridional Overturning Circulation disruptions. <i>Geophysical Research Letters</i> , 2016, 43, 8214-8221.	1.5	23
76	Growth Limitation of Marine Fish by Low Iron Availability in the Open Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	22
77	Global hunter-gatherer population densities constrained by influence of seasonality on diet composition. <i>Nature Ecology and Evolution</i> , 2021, 5, 1536-1545.	3.4	21
78	Feasible future global scenarios for human life evaluations. <i>Nature Communications</i> , 2019, 10, 161.	5.8	20
79	Differing marine animal biomass shifts under 21st century climate change between Canada's three oceans. <i>Facets</i> , 2020, 5, 105-122.	1.1	20
80	Assessing the Role of High-Frequency Winds and Sea Ice Loss on Arctic Phytoplankton Blooms in an Ice-Ocean Biogeochemical Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2728-2750.	1.3	19
81	Roles of the Ocean Mesoscale in the Horizontal Supply of Mass, Heat, Carbon, and Nutrients to the Northern Hemisphere Subtropical Gyres. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7016-7036.	1.0	18
82	Marine wild-capture fisheries after nuclear war. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29748-29758.	3.3	18
83	Stable Carbon Isotopes Suggest Large Terrestrial Carbon Inputs to the Global Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006684.	1.9	18
84	Calcium carbonate production response to future ocean warming and acidification. <i>Biogeosciences</i> , 2012, 9, 2351-2364.	1.3	17
85	Exploring future scenarios for the global supply chain of tuna. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 140, 251-267.	0.6	16
86	Happy without money: Minimally monetized societies can exhibit high subjective well-being. <i>PLoS ONE</i> , 2021, 16, e0244569.	1.1	16
87	Marine phytoplankton resilience may moderate oligotrophic ecosystem responses and biogeochemical feedbacks to climate change. <i>Limnology and Oceanography</i> , 2022, 67, .	1.6	15
88	Correction to "Future changes in climate, ocean circulation, ecosystems, and biogeochemical cycling simulated for a business-as-usual CO ₂ emission scenario until year 4000 AD". <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	14
89	Upwelling in the Ocean Basins North of the ACC: 2. How Cool Subantarctic Water Reaches the Surface in the Tropics. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2609-2625.	1.0	14
90	Links between fish abundance and ocean biogeochemistry as recorded in marine sediments. <i>PLoS ONE</i> , 2018, 13, e0199420.	1.1	11

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91	Regulation strength and technology creep play key roles in global long-term projections of wild capture fisheries. <i>ICES Journal of Marine Science</i> , 2020, 77, 2518-2528.	1.2	11
92	The fecal iron pump: Global impact of animals on the iron stoichiometry of marine sinking particles. <i>Limnology and Oceanography</i> , 2021, 66, 201-213.	1.6	10
93	Global nutrient cycling by commercially targeted marine fish. <i>Biogeosciences</i> , 2022, 19, 2537-2555.	1.3	8
94	Bioenergetic influence on the historical development and decline of industrial fisheries. <i>ICES Journal of Marine Science</i> , 2020, 77, 1854-1863.	1.2	5
95	Happy just because. A cross-cultural study on subjective wellbeing in three Indigenous societies. <i>PLoS ONE</i> , 2021, 16, e0251551.	1.1	4
96	A hemispheric asymmetry in poleward ocean heat transport across climates: Implications for overturning and polar warming. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117033.	1.8	3
97	Does catching more fish increase the subjective well-being of fishers? Insights from Bangladesh. <i>Ambio</i> , 2022, 51, 1673-1686.	2.8	3
98	When the dust settles. <i>Nature Geoscience</i> , 2013, 6, 423-424.	5.4	2
99	Earth system economics: a biophysical approach to the human component of the Earth system. <i>Earth System Dynamics</i> , 2021, 12, 671-687.	2.7	2
100	Interdisciplinary applications of human time use with generalized lexicons. <i>PLoS ONE</i> , 2022, 17, e0270583.	1.1	0