

Carol Robinson

List of Publications by Year in descending order

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77
papers

7,616
citations

101543

36
h-index

74163

75
g-index

92
all docs

92
docs citations

92
times ranked

9976
citing authors

#	ARTICLE	IF	CITATIONS
1	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017, 551, 457-463.	27.8	1,942
2	Climate change and marine plankton. <i>Trends in Ecology and Evolution</i> , 2005, 20, 337-344.	8.7	928
3	A biogeochemical study of the coccolithophore, <i>Emiliana huxleyi</i> , in the North Atlantic. <i>Global Biogeochemical Cycles</i> , 1993, 7, 879-900.	4.9	450
4	Elevated consumption of carbon relative to nitrogen in the surface ocean. <i>Nature</i> , 1993, 363, 248-250.	27.8	323
5	Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the $\delta^{13}C$ is wrong with present calculations of carbon budgets?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1557-1571.	1.4	268
6	Mesopelagic zone ecology and biogeochemistry – a synthesis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1504-1518.	1.4	254
7	Spatial variability in the sink for atmospheric carbon dioxide in the North Atlantic. <i>Nature</i> , 1991, 350, 50-53.	27.8	191
8	Mechanisms of microbial carbon sequestration in the ocean – future research directions. <i>Biogeosciences</i> , 2014, 11, 5285-5306.	3.3	177
9	Prokaryotic respiration and production in the meso- and bathypelagic realm of the eastern and western North Atlantic basin. <i>Limnology and Oceanography</i> , 2006, 51, 1262-1273.	3.1	154
10	The impact of a coccolithophore bloom on oceanic carbon uptake in the northeast Atlantic during summer 1991. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 297-314.	1.4	146
11	Net accumulation and flux of dissolved organic carbon and dissolved organic nitrogen in marine plankton communities. <i>Limnology and Oceanography</i> , 2000, 45, 1097-1111.	3.1	139
12	Review of gross community production, primary production, net community production and dark community respiration in the Gulf of Lions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 801-832.	1.4	120
13	Respiration and its measurement in surface marine waters. , 2005, , 147-180.		115
14	Plankton respiration in the Eastern Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 787-813.	1.4	114
15	Open-ocean carbon monoxide photoproduction. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1695-1705.	1.4	102
16	Evolving paradigms in biological carbon cycling in the ocean. <i>National Science Review</i> , 2018, 5, 481-499.	9.5	100
17	Phasing of autotrophic and heterotrophic plankton metabolism in a temperate coastal ecosystem. <i>Marine Ecology - Progress Series</i> , 1995, 128, 61-75.	1.9	93
18	The Atlantic Meridional Transect (AMT) Programme: A contextual view 1995–2005. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1485-1515.	1.4	90

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19	Hydrothermal studies in the aegean sea. <i>Physics and Chemistry of the Earth</i> , 2000, 25, 1-8.	0.3	89
20	Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1177-1200.	1.4	88
21	Temperature affects respiration rate of <i>Oithona similis</i> . <i>Marine Ecology - Progress Series</i> , 2005, 285, 129-135.	1.9	88
22	Latitudinal variation of the balance between plankton photosynthesis and respiration in the eastern Atlantic Ocean. <i>Limnology and Oceanography</i> , 2001, 46, 1642-1652.	3.1	83
23	The Tropical Atlantic Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	80
24	Microbial Respiration, the Engine of Ocean Deoxygenation. <i>Frontiers in Marine Science</i> , 2019, 5, .	2.5	78
25	The oceansâ€™ twilight zone must be studied now, before it is too late. <i>Nature</i> , 2020, 580, 26-28.	27.8	73
26	Nitrous oxide and methane in the Atlantic Ocean between 50°N and 52°S: Latitudinal distribution and sea-to-air flux. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 964-976.	1.4	72
27	Dimethyl sulphide biogeochemistry within a coccolithophore bloom (DISCO): an overview. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 2863-2885.	1.4	64
28	Anthropogenic CO ₂ accumulation rates in the North Atlantic Ocean from changes in the ¹³ C/ ¹² C of dissolved inorganic carbon. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	63
29	Microbial dynamics in coastal waters of East Antarctica: plankton production and respiration. <i>Marine Ecology - Progress Series</i> , 1999, 180, 23-36.	1.9	63
30	Temperature and Antarctic plankton community respiration. <i>Journal of Plankton Research</i> , 1993, 15, 1035-1051.	1.8	52
31	Plankton net community production and dark respiration in the Arabian Sea during September 1994. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 745-765.	1.4	50
32	Comparison of in vitro and in situ plankton production determinations. <i>Aquatic Microbial Ecology</i> , 2009, 54, 13-34.	1.8	47
33	Development and assessment of an analytical system for the accurate and continual measurement of total dissolved inorganic carbon. <i>Marine Chemistry</i> , 1991, 34, 157-175.	2.3	46
34	Size-fractionated nitrogen uptake and carbon fixation during a developing coccolithophore bloom in the North Sea during June 1999. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 2905-2927.	1.4	46
35	Drivers and effects of <i>Karenia mikimotoi</i> blooms in the western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 456-469.	3.2	41
36	BIOGEOGRAPHIC DIFFERENCES IN THE NET ECOSYSTEM METABOLISM OF THE OPEN OCEAN. <i>Ecology</i> , 2002, 83, 3225-3234.	3.2	40

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37	Plankton gross production and respiration in the shallow water hydrothermal systems of Milos, Aegean Sea. <i>Journal of Plankton Research</i> , 2000, 22, 887-906.	1.8	39
38	Correcting a major error in assessing organic carbon pollution in natural waters. <i>Science Advances</i> , 2021, 7, .	10.3	37
39	Comment on "Dilution limits dissolved organic carbon utilization in the deep ocean". <i>Science</i> , 2015, 350, 1483-1483.	12.6	33
40	Both respiration and photosynthesis determine the scaling of plankton metabolism in the oligotrophic ocean. <i>Nature Communications</i> , 2015, 6, 6961.	12.8	33
41	Algal 14C and total carbon metabolisms. 2. Experimental observations with the diatom <i>Skeletonema costatum</i> . <i>Journal of Plankton Research</i> , 1996, 18, 1961-1974.	1.8	31
42	The temperature response of gross and net community production and respiration in time-varying assemblages of temperate marine micro-plankton. <i>Journal of Experimental Marine Biology and Ecology</i> , 1994, 184, 201-215.	1.5	28
43	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. <i>Trends in Ecology and Evolution</i> , 2019, 34, 1022-1033.	8.7	28
44	Planktonic carbon budget in the eastern subtropical North Atlantic. <i>Aquatic Microbial Ecology</i> , 2007, 48, 261-275.	1.8	28
45	Seasonal and spatial variability in plankton production and respiration in the Subtropical Gyres of the Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 931-940.	1.4	27
46	Satellite estimates of net community production indicate predominance of net autotrophy in the Atlantic Ocean. <i>Remote Sensing of Environment</i> , 2015, 164, 254-269.	11.0	23
47	An implementation strategy to quantify the marine microbial carbon pump and its sensitivity to global change. <i>National Science Review</i> , 2018, 5, 474-480.	9.5	22
48	Local production does not control the balance between plankton photosynthesis and respiration in the open Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1611-1628.	1.4	20
49	Biological and physical forcing of carbonate chemistry in an upwelling filament off northwest Africa: Results from a Lagrangian study. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	20
50	Dissolved organic carbon and apparent oxygen utilization in the Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 85, 80-87.	1.4	20
51	Predicting plankton net community production in the Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 941-953.	1.4	18
52	Plankton community respiration during a coccolithophore bloom. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 2929-2950.	1.4	17
53	Oxygen photolysis in the Mauritanian upwelling: Implications for net community production. <i>Limnology and Oceanography</i> , 2014, 59, 299-310.	3.1	17
54	Plankton community respiration and bacterial metabolism in a North Atlantic Shelf Sea during spring bloom development (April 2015). <i>Progress in Oceanography</i> , 2019, 177, 101873.	3.2	17

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55	The Atlantic Meridional Transect Programme (1995–2012). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 895-898.	1.4	16
56	Net community production in the North Atlantic Ocean derived from Volunteer Observing Ship data. <i>Global Biogeochemical Cycles</i> , 2015, 29, 80-95.	4.9	16
57	Seasonal changes in plankton respiration and bacterial metabolism in a temperate shelf sea. <i>Progress in Oceanography</i> , 2019, 177, 101884.	3.2	16
58	Mesozooplankton Community Composition Controls Fecal Pellet Flux and Remineralization Depth in the Southern Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	15
59	20 Years of the Atlantic Meridional Transect—AMT. <i>Limnology and Oceanography Bulletin</i> , 2015, 24, 101-107.	0.4	14
60	Carbon flux in ice–ocean–plankton systems of the Bellingshausen Sea during a period of ice retreat. <i>Journal of Marine Systems</i> , 1998, 17, 207-227.	2.1	13
61	Validation of the in vivo Iodo-Nitro-Tetrazolium (INT) Salt Reduction Method as a Proxy for Plankton Respiration. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	10
62	Technical note: Could benzalkonium chloride be a suitable alternative to mercuric chloride for preservation of seawater samples?. <i>Ocean Science</i> , 2015, 11, 947-952.	3.4	8
63	IMBER – Research for marine sustainability: Synthesis and the way forward. <i>Anthropocene</i> , 2015, 12, 42-53.	3.3	8
64	Shelf Sea Biogeochemistry: Nutrient and carbon cycling in a temperate shelf sea water column. <i>Progress in Oceanography</i> , 2019, 177, 102182.	3.2	7
65	Changing currents: a strategy for understanding and predicting the changing ocean circulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5461-5479.	3.4	5
66	Editorial: Zooplankton and Nekton: Gatekeepers of the Biological Pump. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
67	The Global Pandemic Has Shown We Need an Action Plan for the Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	5
68	Diel vertical migration of a Southern Ocean euphausiid, <i>Euphausia triacantha</i> , and its metabolic response to consequent short-term temperature changes. <i>Marine Ecology - Progress Series</i> , 2021, 660, 37-52.	1.9	4
69	Fostering Global Science Networks in a Post-COVID-19 World. <i>Oceanography</i> , 2020, 33, .	1.0	4
70	Low Contribution of the Fast-Sinking Particle Fraction to Total Plankton Metabolism in a Temperate Shelf Sea. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007015.	4.9	3
71	Scientific Diving Under Sea level in the Southern Ocean. <i>Underwater Technology</i> , 1995, 21, 21-27.	0.3	1
72	A strategy for UK marine science for the next 20 years. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5455-5456.	3.4	1

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73	Corrigendum to "Mechanisms of microbial carbon sequestration in the ocean â future research directions" published in Biogeosciences, 11, 5285â5306, 2014. Biogeosciences, 2014, 11, 5565-5565.	3.3	1
74	INT reduction is a valid proxy for eukaryotic plankton respiration despite the inherent toxicity of INT and differences in cell wall structure. PLoS ONE, 2019, 14, e0225954.	2.5	1
75	Patrick Michael Holligan: a short biography. Journal of Plankton Research, 2007, 30, 95-106.	1.8	0
76	THE MICROBIAL CARBON PUMP: EMERGING ISSUES WORKSHOP REPORT. Limnology and Oceanography Bulletin, 2011, 20, 37-38.	0.4	0
77	Phytoplankton Biogeochemical Cycles. , 2017, , .		0