Carol Robinson

List of Publications by Year
in descending order

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	Diel vertical migration of a Southern Ocean euphausiid, Euphausia triacantha, and its metabolic response to consequent short-term temperature changes. Marine Ecology - Progress Series, 2021, 660, 37-52.	1.9	4
2	Correcting a major error in assessing organic carbon pollution in natural waters. Science Advances, 2021, 7, .	10.3	37
3	Low Contribution of the Fastâ€Sinking Particle Fraction to Total Plankton Metabolism in a Temperate Shelf Sea. Global Biogeochemical Cycles, 2021, 35, e2021GB007015.	4.9	3
4	The Global Pandemic Has Shown We Need an Action Plan for the Ocean. Frontiers in Marine Science, 2021, 8, .	2.5	5
5	Editorial: Zooplankton and Nekton: Gatekeepers of the Biological Pump. Frontiers in Marine Science, 2020, 7, .	2.5	5
6	The oceansâ€™ twilight zone must be studied now, before it is too late. Nature, 2020, 580, 26-28.	27.8	73
7	Fostering Global Science Networks in a Post-COVID-19 World. Oceanography, 2020, 33, .	1.0	4
8	Mesozooplankton Community Composition Controls Fecal Pellet Flux and Remineralization Depth in the Southern Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	15
9	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. Trends in Ecology and Evolution, 2019, 34, 1022-1033.	8.7	28
10	Validation of the in vivo Iodo-Nitro-Tetrazolium (INT) Salt Reduction Method as a Proxy for Plankton Respiration. Frontiers in Marine Science, 2019, 6, .	2.5	10
11	Shelf Sea Biogeochemistry: Nutrient and carbon cycling in a temperate shelf sea water column. Progress in Oceanography, 2019, 177, 102182.	3.2	7
12	The Tropical Atlantic Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	80
13	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
14	Microbial Respiration, the Engine of Ocean Deoxygenation. Frontiers in Marine Science, 2019, 5, .	2.5	78
15	Seasonal changes in plankton respiration and bacterial metabolism in a temperate shelf sea. Progress in Oceanography, 2019, 177, 101884.	3.2	16
16	Plankton community respiration and bacterial metabolism in a North Atlantic Shelf Sea during spring bloom development (April 2015). Progress in Oceanography, 2019, 177, 101873.	3.2	17
17	An implementation strategy to quantify the marine microbial carbon pump and its sensitivity to global change. National Science Review, 2018, 5, 474-480.	9.5	22
18	Evolving paradigms in biological carbon cycling in the ocean. National Science Review, 2018, 5, 481-499.	9.5	100

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19	A communal catalogue reveals Earthâ€™s multiscale microbial diversity. Nature, 2017, 551, 457-463.	27.8	1,942
20	Phytoplankton Biogeochemical Cycles. , 2017, , .		0
21	Drivers and effects of Karenia mikimotoi blooms in the western English Channel. Progress in Oceanography, 2015, 137, 456-469.	3.2	41
22	20 Years of the Atlantic Meridional Transectâ€”AMT. Limnology and Oceanography Bulletin, 2015, 24, 101-107.	0.4	14
23	Technical note: Could benzalkonium chloride be a suitable alternative to mercuric chloride for preservation of seawater samples?. Ocean Science, 2015, 11, 947-952.	3.4	8
24	Comment on â€œDilution limits dissolved organic carbon utilization in the deep oceanâ€• Science, 2015, 350, 1483-1483.	12.6	33
25	IMBER â€“ Research for marine sustainability: Synthesis and the way forward. Anthropocene, 2015, 12, 42-53.	3.3	8
26	Net community production in the North Atlantic Ocean derived from Volunteer Observing Ship data. Global Biogeochemical Cycles, 2015, 29, 80-95.	4.9	16
27	Satellite estimates of net community production indicate predominance of net autotrophy in the Atlantic Ocean. Remote Sensing of Environment, 2015, 164, 254-269.	11.0	23
28	Both respiration and photosynthesis determine the scaling of plankton metabolism in the oligotrophic ocean. Nature Communications, 2015, 6, 6961.	12.8	33
29	Mechanisms of microbial carbon sequestration in the ocean â€“ future research directions. Biogeosciences, 2014, 11, 5285-5306.	3.3	177
30	Corrigendum to "Mechanisms of microbial carbon sequestration in the ocean â€“ future research directions" published in Biogeosciences, 11, 5285â€“5306, 2014. Biogeosciences, 2014, 11, 5565-5565.	3.3	1
31	Dissolved organic carbon and apparent oxygen utilization in the Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 85, 80-87.	1.4	20
32	Oxygen photolysis in the Mauritanian upwelling: Implications for net community production. Limnology and Oceanography, 2014, 59, 299-310.	3.1	17
33	A strategy for UK marine science for the next 20 years. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5455-5456.	3.4	1
34	Changing currents: a strategy for understanding and predicting the changing ocean circulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5461-5479.	3.4	5
35	Biological and physical forcing of carbonate chemistry in an upwelling filament off northwest Africa: Results from a Lagrangian study. Global Biogeochemical Cycles, 2012, 26, .	4.9	20
36	THE MICROBIAL CARBON PUMP: EMERGING ISSUES WORKSHOP REPORT. Limnology and Oceanography Bulletin, 2011, 20, 37-38.	0.4	0

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37	Mesopelagic zone ecology and biogeochemistry â€“ a synthesis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1504-1518.	1.4	254
38	Assessing the apparent imbalance between geochemical and biochemical indicators of meso- and bathypelagic biological activity: What the @$â™¯! is wrong with present calculations of carbon budgets?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1557-1571.	1.4	268
39	The Atlantic Meridional Transect Programme (1995â€“2012). Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 895-898.	1.4	16
40	Predicting plankton net community production in the Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 941-953.	1.4	18
41	Seasonal and spatial variability in plankton production and respiration in the Subtropical Gyres of the Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 931-940.	1.4	27
42	Nitrous oxide and methane in the Atlantic Ocean between 50Â°N and 52Â°S: Latitudinal distribution and sea-to-air flux. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 964-976.	1.4	72
43	Comparison of in vitro and in situ plankton production determinations. Aquatic Microbial Ecology, 2009, 54, 13-34.	1.8	47
44	Patrick Michael Holligan: a short biography. Journal of Plankton Research, 2007, 30, 95-106.	1.8	0
45	Anthropogenic CO2accumulation rates in the North Atlantic Ocean from changes in the13C/12C of dissolved inorganic carbon. Global Biogeochemical Cycles, 2007, 21, .	4.9	63
46	Planktonic carbon budget in the eastern subtropical North Atlantic. Aquatic Microbial Ecology, 2007, 48, 261-275.	1.8	28
47	Open-ocean carbon monoxide photoproduction. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1695-1705.	1.4	102
48	The Atlantic Meridional Transect (AMT) Programme: A contextual view 1995â€“2005. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1485-1515.	1.4	90
49	Local production does not control the balance between plankton photosynthesis and respiration in the open Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1611-1628.	1.4	20
50	Prokaryotic respiration and production in the meso- and bathypelagic realm of the eastern and western North Atlantic basin. Limnology and Oceanography, 2006, 51, 1262-1273.	3.1	154
51	Climate change and marine plankton. Trends in Ecology and Evolution, 2005, 20, 337-344.	8.7	928
52	Respiration and its measurement in surface marine waters. , 2005, , 147-180.		115
53	Temperature affects respiration rate of Oithona similis. Marine Ecology - Progress Series, 2005, 285, 129-135.	1.9	88
54	BIOGEOGRAPHIC DIFFERENCES IN THE NET ECOSYSTEM METABOLISM OF THE OPEN OCEAN. Ecology, 2002, 83, 3225-3234.	3.2	40

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55	Plankton respiration in the Eastern Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 787-813.	1.4	114
56	Dimethyl sulphide biogeochemistry within a coccolithophore bloom (DISCO): an overview. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2863-2885.	1.4	64
57	Size-fractionated nitrogen uptake and carbon fixation during a developing coccolithophore bloom in the North Sea during June 1999. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2905-2927.	1.4	46
58	Plankton community respiration during a coccolithophore bloom. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2929-2950.	1.4	17
59	Latitudinal variation of the balance between plankton photosynthesis and respiration in the eastern Atlantic Ocean. Limnology and Oceanography, 2001, 46, 1642-1652.	3.1	83
60	Net accumulation and flux of dissolved organic carbon and dissolved organic nitrogen in marine plankton communities. Limnology and Oceanography, 2000, 45, 1097-1111.	3.1	139
61	Hydrothermal studies in the aegean sea. Physics and Chemistry of the Earth, 2000, 25, 1-8.	0.3	89
62	Plankton gross production and respiration in the shallow water hydrothermal systems of Milos, Aegean Sea. Journal of Plankton Research, 2000, 22, 887-906.	1.8	39
63	Plankton net community production and dark respiration in the Arabian Sea during September 1994. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 745-765.	1.4	50
64	Microbial dynamics in coastal waters of East Antarctica:plankton production and respiration. Marine Ecology - Progress Series, 1999, 180, 23-36.	1.9	63
65	Carbon flux in iceâ€“oceanâ€“plankton systems of the Bellingshausen Sea during a period of ice retreat. Journal of Marine Systems, 1998, 17, 207-227.	2.1	13
66	Review of gross community production, primary production, net community production and dark community respiration in the Gulf of Lions. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 801-832.	1.4	120
67	Algal 14C and total carbon metabolisms. 2. Experimental observations with the diatom Skeletonema costatum. Journal of Plankton Research, 1996, 18, 1961-1974.	1.8	31
68	Seientifie Diving Under Sea lee in the Southern Oeean. Underwater Technology, 1995, 21, 21-27.	0.3	1
69	Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 1177-1200.	1.4	88
70	Phasing of autotrophic and heterotrophic plankton metabolism in a temperate coastal ecosystem. Marine Ecology - Progress Series, 1995, 128, 61-75.	1.9	93
71	The temperature response of gross and net community production and respiration in time-varying assemblages of temperate marine micro-plankton. Journal of Experimental Marine Biology and Ecology, 1994, 184, 201-215.	1.5	28
72	The impact of a coccolithophore bloom on oceanic carbon uptake in the northeast Atlantic during summer 1991. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 297-314.	1.4	146

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73	Elevated consumption of carbon relative to nitrogen in the surface ocean. Nature, 1993, 363, 248-250.	27.8	323
74	A biogeochemical study of the coccolithophore, Emiliania huxleyi, in the North Atlantic. Global Biogeochemical Cycles, 1993, 7, 879-900.	4.9	450
75	Temperature and Antarctic plankton community respiration. Journal of Plankton Research, 1993, 15, 1035-1051.	1.8	52
76	Development and assessment of an analytical system for the accurate and continual measurement of total dissolved inorganic carbon. Marine Chemistry, 1991, 34, 157-175.	2.3	46
77	Spatial variability in the sink for atmospheric carbon dioxide in the North Atlantic. Nature, 1991, 350, 50-53.	27.8	191