Kevin Arrigo

List of Publications by Year
in descending order

155	18,875	14644 66	12933 131
papers	citations	h-index	g-index

162	162	162	12436
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Processes and patterns of oceanic nutrient limitation. Nature Geoscience, 2013, 6, 701-710.	5.4	1,627
2	Marine microorganisms and global nutrient cycles. Nature, 2005, 437, 349-355.	13.7	1,124
3	Impact of a shrinking Arctic ice cover on marine primary production. Geophysical Research Letters, 2008, 35, .	1.5	763
4	Phytoplankton Community Structure and the Drawdown of Nutrients and CO2 in the Southern Ocean. Science, 1999, 283, 365-367.	6.0	719
5	Massive Phytoplankton Blooms Under Arctic Sea Ice. Science, 2012, 336, 1408-1408.	6.0	606
6	A comparison of global estimates of marine primary production from ocean color. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 741-770.	0.6	574
7	Primary production in the Southern Ocean, 1997â€“2006. Journal of Geophysical Research, 2008, 113, .	3.3	521
8	Continued increases in Arctic Ocean primary production. Progress in Oceanography, 2015, 136, 60-70.	1.5	506
9	Climate change and Southern Ocean ecosystems I: how changes in physical habitats directly affect marine biota. Global Change Biology, 2014, 20, 3004-3025.	4.2	448
10	Agricultural runoff fuels large phytoplankton blooms in vulnerable areas of the ocean. Nature, 2005, 434, 211-214.	13.7	438
11	Phytoplankton dynamics within 37 Antarctic coastal polynya systems. Journal of Geophysical Research, 2003, 108, .	3.3	389
12	Primary production in Southern Ocean waters. Journal of Geophysical Research, 1998, 103, 15587-15600.	3.3	352
13	Secular trends in Arctic Ocean net primary production. Journal of Geophysical Research, 2011, 116, .	3.3	339
14	Distributions of Phytoplankton Blooms in the Southern Ocean. Science, 1993, 262, 1832-1837.	6.0	327
15	Primary production in the Arctic Ocean, 1998â€“2006. Journal of Geophysical Research, 2008, 113, .	3.3	308
16	Rapid and early export of Phaeocystis antarctica blooms in the Ross Sea, Antarctica. Nature, 2000, 404, 595-598.	13.7	292
17	Changes in phytoplankton concentration now drive increased Arctic Ocean primary production. Science, 2020, 369, 198-202.	6.0	244
18	Comparison of algorithms for estimating ocean primary production from surface chlorophyll, temperature, and irradiance. Global Biogeochemical Cycles, 2002, 16, 9-1-9-15.	1.9	232

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19	Large scale importance of sea ice biology in the Southern Ocean. Antarctic Science, 2004, 16, 471-486.	0.5	223
20	Ecosystem characteristics and processes facilitating persistent macrobenthic biomass hotspots and associated benthivory in the Pacific Arctic. Progress in Oceanography, 2015, 136, 92-114.	1.5	222
21	Primary Production in Antarctic Sea Ice. Science, 1997, 276, 394-397.	6.0	219
22	Coastal Southern Ocean: A strong anthropogenic CO₂ sink. Geophysical Research Letters, 2008, 35, .	1.5	211
23	Contribution of underâ€ice primary production to an iceâ€edge upwelling phytoplankton bloom in the Canadian Beaufort Sea. Geophysical Research Letters, 2009, 36, .	1.5	209
24	Sea Ice Ecosystems. Annual Review of Marine Science, 2014, 6, 439-467.	5.1	193
25	Iron from melting glaciers fuels the phytoplankton blooms in Amundsen Sea (Southern Ocean): Iron biogeochemistry. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 16-31.	0.6	191
26	Phytoplankton blooms beneath the sea ice in the Chukchi sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 105, 1-16.	0.6	187
27	Phytoplankton taxonomic variability in nutrient utilization and primary production in the Ross Sea. Journal of Geophysical Research, 2000, 105, 8827-8846.	3.3	183
28	Annual changes in sea-ice, chlorophyll a, and primary production in the Ross Sea, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 117-138.	0.6	172
29	Environmental controls of marine productivity hot spots around <scp>A</scp>ntarctica. Journal of Geophysical Research: Oceans, 2015, 120, 5545-5565.	1.0	162
30	Physical forcing of phytoplankton dynamics in the southwestern Ross Sea. Journal of Geophysical Research, 1998, 103, 1007-1021.	3.3	152
31	Spring Phytoplankton Production in the Western Ross Sea. Science, 1994, 266, 261-263.	6.0	147
32	Photophysiology in Two Major Southern Ocean Phytoplankton Taxa: Photosynthesis and Growth of Phaeocystis antarctica and Fragilariopsis cylindrus under Different Irradiance Levels. Integrative and Comparative Biology, 2010, 50, 950-966.	0.9	136
33	Ecological impact of a large Antarctic iceberg. Geophysical Research Letters, 2002, 29, 8-1.	1.5	125
34	Decadal-scale changes in the climate and biota of the Pacific sector of the Southern Ocean, 1950s to the 1990s. Antarctic Science, 2005, 17, 171-182.	0.5	125
35	Annual cycles of sea ice and phytoplankton in Cape Bathurst polynya, southeastern Beaufort Sea, Canadian Arctic. Geophysical Research Letters, 2004, 31, .	1.5	124
36	Productivity in the Barents Sea - Response to Recent Climate Variability. PLoS ONE, 2014, 9, e95273.	1.1	123

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37	ASPIRE: The Amundsen Sea Polynya International Research Expedition. Oceanography, 2012, 25, 40-53.	0.5	116
38	THE INFLUENCE OF SALINITY AND TEMPERATURE COVARIATION ON THE PHOTOPHYSIOLOGICAL CHARACTERISTICS OF ANTARCTIC SEA ICE MICROALGAE1. Journal of Phycology, 1992, 28, 746-756.	1.0	114
39	Mapping phytoplankton iron utilization: Insights into Southern Ocean supply mechanisms. Journal of Geophysical Research, 2012, 117, .	3.3	113
40	Iron from melting glaciers fuels phytoplankton blooms in the Amundsen Sea (Southern Ocean): Phytoplankton characteristics and productivity. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 32-48.	0.6	113
41	A coupled ocean-ecosystem model of the Ross Sea: 2. Iron regulation of phytoplankton taxonomic variability and primary production. Journal of Geophysical Research, 2003, 108, .	3.3	111
42	Microalgal community structure and primary production in Arctic and Antarctic sea ice: A synthesis. Elementa, 2018, 6, .	1.1	107
43	Primary productivity in the Arctic Ocean: Impacts of complex optical properties and subsurface chlorophyll maxima on largeâ€scale estimates. Journal of Geophysical Research, 2011, 116, .	3.3	106
44	Early season depletion of dissolved iron in the Ross Sea polynya: Implications for iron dynamics on the Antarctic continental shelf. Journal of Geophysical Research, 2011, 116, .	3.3	105
45	Long-term trends of upwelling and impacts on primary productivity in the Alaskan Beaufort Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 79, 106-121.	0.6	104
46	Annual changes in sea ice and phytoplankton in polynyas of the Amundsen Sea, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 5-15.	0.6	102
47	THE EFFECT OF IRON LIMITATION ON THE PHOTOPHYSIOLOGY OF PHAEOCYSTIS ANTARCTICA (PRYMNESIOPHYCEAE) AND FRAGILARIOPSIS CYLINDRUS (BACILLARIOPHYCEAE) UNDER DYNAMIC IRRADIANCE¹. Journal of Phycology, 2012, 48, 45-59.	1.0	100
48	The interplay between upwelling and deep convective mixing in determining the seasonal phytoplankton dynamics in the Gulf of Aqaba: Evidence from SeaWiFS and MODIS. Limnology and Oceanography, 2003, 48, 2355-2368.	1.6	96
49	Advection in polar and sub-polar environments: Impacts on high latitude marine ecosystems. Progress in Oceanography, 2016, 149, 40-81.	1.5	95
50	A simulated Antarctic ast ice ecosystem. Journal of Geophysical Research, 1993, 98, 6929-6946.	3.3	92
51	A comparison between excess barium and barite as indicators of carbon export. Paleoceanography, 2003, 18, n/a-n/a.	3.0	90
52	The Ross Sea in a Sea of Change. Oceanography, 2012, 25, 90-103.	0.5	86
53	A bioâ€optical model of Antarctic sea ice. Journal of Geophysical Research, 1991, 96, 10581-10592.	3.3	85
54	Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. Geophysical Research Letters, 2017, 44, 6278-6285.	1.5	82

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55	Marine manipulations. Nature, 2007, 450, 491-492.	13.7	81
56	Contrasting trends in sea ice and primary production in the Bering Sea and Arctic Ocean. ICES Journal of Marine Science, 2012, 69, 1180-1193.	1.2	81
57	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. Geophysical Research Letters, 2017, 44, 5016-5024.	1.5	79
58	Climate effects on temporal and spatial dynamics of phytoplankton and zooplankton in the Barents Sea. Progress in Oceanography, 2020, 185, 102320.	1.5	78
59	Responding to climate change: AdÃ©lie Penguins confront astronomical and ocean boundaries. Ecology, 2010, 91, 2056-2069.	1.5	76
60	Sea ice impacts on spring bloom dynamics and net primary production in the Eastern Bering Sea. Journal of Geophysical Research: Oceans, 2013, 118, 43-62.	1.0	75
61	Bio-optical properties of the southwestern Ross Sea. Journal of Geophysical Research, 1998, 103, 21683-21695.	3.3	74
62	Can photoinhibition control phytoplankton abundance in deeply mixed water columns of the Southern Ocean?. Limnology and Oceanography, 2010, 55, 1248-1264.	1.6	74
63	A reassessment of primary production and environmental change in the Bering Sea. Journal of Geophysical Research, 2011, 116, .	3.3	73
64	Iron supply and demand in an Antarctic shelf ecosystem. Geophysical Research Letters, 2015, 42, 8088-8097.	1.5	73
65	The influence of winter water on phytoplankton blooms in the Chukchi Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 118, 53-72.	0.6	72
66	A high resolution bio-optical model of microalgal growth: Tests using sea-ice algal community time-series data. Limnology and Oceanography, 1994, 39, 609-631.	1.6	67
67	Evidence of under-ice phytoplankton blooms in the Chukchi Sea from 1998 to 2012. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 105, 105-117.	0.6	67
68	Characterizing the subsurface chlorophyll a maximum in the Chukchi Sea and Canada Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 118, 88-104.	0.6	67
69	Aspects of the marine nitrogen cycle of the Chukchi Sea shelf and Canada Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 118, 73-87.	0.6	66
70	Observations and simulations of physical and biological processes at ocean weather station P, 1951-1980. Journal of Geophysical Research, 1996, 101, 3697-3713.	3.3	65
71	Impact of iceberg C-19 on Ross Sea primary production. Geophysical Research Letters, 2003, 30, .	1.5	64
72	PHOTOPHYSIOLOGY IN TWO SOUTHERN OCEAN PHYTOPLANKTON TAXA: PHOTOSYNTHESIS OF PHAEOCYSTIS ANTARCTICA (PRYMNESIOPHYCEAE) AND FRAGILARIOPSIS CYLINDRUS (BACILLARIOPHYCEAE) UNDER SIMULATED MIXEDâ€LAYER IRRADIANCE¹. Journal of Phycology, 2010, 46, 1114-1127.	1.0	64

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73	Physical control of chlorophylla, POC, and TPN distributions in the pack ice of the Ross Sea, Antarctica. Journal of Geophysical Research, 2003, 108, .	3.3	62
74	Key role of organic complexation of iron in sustaining phytoplankton blooms in the Pine Island and Amundsen Polynyas (Southern Ocean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 49-60.	0.6	62
75	Under-Ice Phytoplankton Blooms: Shedding Light on the â€œInvisibleâ€•Part of Arctic Primary Production. Frontiers in Marine Science, 2020, 7, .	1.2	60
76	Iron in the Ross Sea: 1. Impact on CO2 fluxes via variation in phytoplankton functional group and non-Redfield stoichiometry. Journal of Geophysical Research, 2005, 110, .	3.3	59
77	Unusual marine cyanobacteria/haptophyte symbiosis relies on N2 fixation even in N-rich environments. ISME Journal, 2020, 14, 2395-2406.	4.4	58
78	STRATEGIES AND RATES OF PHOTOACCLIMATION IN TWO MAJOR SOUTHERN OCEAN PHYTOPLANKTON TAXA: PHAEOCYSTIS ANTARCTICA (HAPTOPHYTA) AND FRAGILARIOPSIS CYLINDRUS (BACILLARIOPHYCEAE)¹. Journal of Phycology, 2010, 46, 1138-1151.	1.0	57
79	UNDERSTANDING NITROGEN LIMITATION IN AUREOCOCCUS ANOPHAGEFFERENS (PELAGOPHYCEAE) THROUGH cDNA AND qRTâ€PCR ANALYSIS¹. Journal of Phycology, 2008, 44, 1235-1249.	1.0	56
80	Photoacclimation of Arctic Ocean phytoplankton to shifting light and nutrient limitation. Limnology and Oceanography, 2019, 64, 284-301.	1.6	54
81	MICROALGAL LIGHT-HARVESTING IN EXTREME LOW-LIGHT ENVIRONMENTS IN MCMURDO SOUND, ANTARCTICA1. Journal of Phycology, 1995, 31, 508-520.	1.0	53
82	Spatial distribution of pCO2, Î”O2/Ar and dimethylsulfide (DMS) in polynya waters and the sea ice zone of the Amundsen Sea, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 77-93.	0.6	52
83	Airâ€sea flux of CO₂ in the Arctic Ocean, 1998â€“2003. Journal of Geophysical Research, 2010, 115, .	3.3	51
84	Anomalously low zooplankton abundance in the Ross Sea: An alternative explanation. Limnology and Oceanography, 2003, 48, 686-699.	1.6	50
85	Processes governing the supply of iron to phytoplankton in stratified seas. Journal of Geophysical Research, 2006, 111, .	3.3	49
86	Role of shelfbreak upwelling in the formation of a massive under-ice bloom in the Chukchi Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 105, 17-29.	0.6	49
87	Annual primary production in Antarctic sea ice during 2005â€“2006 from a sea ice state estimate. Journal of Geophysical Research: Oceans, 2014, 119, 3645-3678.	1.0	47
88	Taxon-specific differences in C/P and N/P drawdown for phytoplankton in the Ross Sea, Antarctica. Geophysical Research Letters, 2002, 29, 44-1-44-4.	1.5	46
89	Impacts of sea ice retreat, thinning, and melt-pond proliferation on the summer phytoplankton bloom in the Chukchi Sea, Arctic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 105, 85-104.	0.6	46
90	Early Spring Phytoplankton Dynamics in the Western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2017, 122, 9350-9369.	1.0	45

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91	Benthic fluxes of trace metals in the Chukchi Sea and their transport into the Arctic Ocean. Marine Chemistry, 2019, 208, 43-55.	0.9	45
92	Environmental drivers of under-ice phytoplankton bloom dynamics in the Arctic Ocean. Elementa, 2020, 8, .	1.1	45
93	Sea ice variability and primary productivity in the Ross Sea, Antarctica, from methylsulphonate snow record. Geophysical Research Letters, 2009, 36, .	1.5	43
94	Light and nutrient control of photosynthesis in natural phytoplankton populations from the Chukchi and Beaufort seas, Arctic Ocean. Limnology and Oceanography, 2013, 58, 2185-2205.	1.6	43
95	Water properties, heat and volume fluxes of Pacific water in Barrow Canyon during summer 2010. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 102, 43-54.	0.6	43
96	Estimates of net community production in the Southern Ocean determined from time series observations (2002â€“2011) of nutrients, dissolved inorganic carbon, and surface ocean pCO2 in Drake Passage. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 114, 49-63.	0.6	43
97	Sea ice algal biomass and physiology in the Amundsen Sea, Antarctica. Elementa, 2014, 2, .	1.1	43
98	Nitrogen Limitation of the Summer Phytoplankton and Heterotrophic Prokaryote Communities in the Chukchi Sea. Frontiers in Marine Science, 2018, 5, .	1.2	42
99	Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	1.1	42
100	Interannual variation in air-sea CO2flux in the Ross Sea, Antarctica: A model analysis. Journal of Geophysical Research, 2007, 112, .	3.3	41
101	Spatial and temporal variation of photosynthetic parameters in natural phytoplankton assemblages in the Beaufort Sea, Canadian Arctic. Polar Biology, 2011, 34, 1915-1928.	0.5	41
102	Patterns and controlling factors of species diversity in the Arctic Ocean. Journal of Biogeography, 2012, 39, 2081-2088.	1.4	41
103	Impacts of low phytoplankton NO3â^':PO43â^' utilization ratios over the Chukchi Shelf, Arctic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 118, 105-121.	0.6	41
104	Water Mass Evolution and Circulation of the Northeastern Chukchi Sea in Summer: Implications for Nutrient Distributions. Journal of Geophysical Research: Oceans, 2019, 124, 4416-4432.	1.0	41
105	Influence of light and temperature on the marine iron cycle: From theoretical to global modeling. Global Biogeochemical Cycles, 2009, 23, .	1.9	40
106	Seasonal to mesoscale variability of water masses and atmospheric conditions in Barrow Canyon, Chukchi Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 162, 32-49.	0.6	40
107	Simulation of a sea ice ecosystem using a hybrid model for slush layer desalination. Journal of Geophysical Research, 2012, 117, .	3.3	39
108	Differential effects of nitrate, ammonium, and urea as N sources for microbial communities in the North Pacific Ocean. Limnology and Oceanography, 2017, 62, 2550-2574.	1.6	39

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109	Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. Journal of Geophysical Research: Oceans, 2018, 123, 2570-2591.	1.0	37
110	Ocean Color Algorithms for Estimating Chlorophyll a, CDOM Absorption, and Particle Backscattering in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015706.	1.0	36
111	PHOTOPHYSIOLOGICAL EVIDENCE OF NUTRIENT LIMITATION OF PLATELET ICE ALGAE IN MCMURDO SOUND, ANTARCTICA. Journal of Phycology, 1998, 34, 788-797.	1.0	35
112	Twentieth century seaâ€ice trends in the Ross Sea from a highâ€resolution, coastal iceâ€core record. Geophysical Research Letters, 2014, 41, 3510-3516.	1.5	35
113	Seasonal sea ice changes in the Amundsen Sea, Antarctica, over the period of 1979â€“2014. Elementa, 2015, 3, .	1.1	35
114	Characteristics of colored dissolved organic matter (CDOM) in the Western Arctic Ocean: Relationships with microbial activities. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 118, 44-52.	0.6	34
115	Late Spring Nitrate Distributions Beneath the Iceâ€Covered Northeastern Chukchi Shelf. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2409-2417.	1.3	34
116	Underâ€ice Phytoplankton Blooms Inhibited by Spring Convective Mixing in Refreezing Leads. Journal of Geophysical Research: Oceans, 2018, 123, 90-109.	1.0	34
117	Spatial analysis of trends in primary production and relationship with largeâ€scale climate variability in the <scp>R</scp>oss <scp>S</scp>ea, <scp>A</scp>ntarctica (1997â€“2013). Journal of Geophysical Research: Oceans, 2016, 121, 368-386.	1.0	32
118	Satellite estimation of marine particulate organic carbon in waters dominated by different phytoplankton taxa. Journal of Geophysical Research, 2006, 111, .	3.3	31
119	Phytoplankton biomass and pigment responses to Fe amendments in the Pine Island and Amundsen polynyas. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 61-76.	0.6	31
120	Short-term photoacclimation effects on photoinhibition of phytoplankton in the Drake Passage (Southern Ocean). Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 943-955.	0.6	29
121	The seasonal cycle of the Arctic Ocean under climate change. Geophysical Research Letters, 2015, 42, 7681-7686.	1.5	29
122	Analysis of Iron Sources in Antarctic Continental Shelf Waters. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015736.	1.0	29
123	Impact of a deep ozone hole on Southern Ocean primary production. Journal of Geophysical Research, 2003, 108, .	3.3	28
124	Hydrodynamic control of phytoplankton loss to the benthos in an estuarine environment. Limnology and Oceanography, 2009, 54, 952-969.	1.6	27
125	Light Is the Primary Driver of Early Season Phytoplankton Production Along the Western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2019, 124, 7375-7399.	1.0	27
126	Constraints on the extent of the Ross Sea phytoplankton bloom. Journal of Geophysical Research, 2006, 111, .	3.3	25

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127	Characteristics and Transformation of Pacific Winter Water on the Chukchi Sea Shelf in Late Spring. Journal of Geophysical Research: Oceans, 2019, 124, 7153-7177.	1.0	25
128	Massive Southern Ocean phytoplankton bloom fed by iron of possible hydrothermal origin. Nature Communications, 2021, 12, 1211.	5.8	25
129	Ice algal communities in the Chukchi and Beaufort Seas in spring and early summer: Composition, distribution, and coupling with phytoplankton assemblages. Limnology and Oceanography, 2018, 63, 1109-1133.	1.6	24
130	Zooplankton and micronekton respond to climate fluctuations in the Amundsen Sea polynya, Antarctica. Scientific Reports, 2019, 9, 10087.	1.6	22
131	Synergistic interactions among growing stressors increase risk to an Arctic ecosystem. Nature Communications, 2020, 11, 6255.	5.8	22
132	Ross ice shelf cavity circulation, residence time, and melting: Results from a model of oceanic chlorofluorocarbons. Continental Shelf Research, 2010, 30, 733-742.	0.9	21
133	Dissolved Trace Metals in the Ross Sea. Frontiers in Marine Science, 2020, 7, .	1.2	21
134	Comparison of Cloud-Filling Algorithms for Marine Satellite Data. Remote Sensing, 2020, 12, 3313.	1.8	20
135	EXAMINATION OF DIEL CHANGES IN GLOBAL TRANSCRIPT ACCUMULATION IN SYNECHOCYSTIS (CYANOBACTERIA)1. Journal of Phycology, 2006, 42, 622-636.	1.0	18
136	The role of thermal and mechanical processes in the formation of the Ross Sea summer polynya. Journal of Geophysical Research, 2007, 112, .	3.3	17
137	UCYN-A/haptophyte symbioses dominate N2 fixation in the Southern California Current System. ISME Communications, 2021, 1, .	1.7	17
138	Iron in the Ross Sea: 2. Impact of discrete iron addition strategies. Journal of Geophysical Research, 2005, 110, .	3.3	15
139	The Atlantic Water Boundary Current in the Chukchi Borderland and Southern Canada Basin. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016197.	1.0	15
140	Tight coupling of primary production and marine mammal reproduction in the Southern Ocean. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143137.	1.2	11
141	Drivers of Ice Algal Bloom Variability Between 1980 and 2015 in the Chukchi Sea. Journal of Geophysical Research: Oceans, 2018, 123, 7037-7052.	1.0	10
142	Summer Highâ€Wind Events and Phytoplankton Productivity in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016565.	1.0	10
143	Decadal trends in airâ€sea CO₂ exchange in the Ross Sea (Antarctica). Geophysical Research Letters, 2016, 43, 5271-5278.	1.5	8
144	The changing Arctic Ocean. Elementa, 2013, 1, .	1.1	8

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145	Mass balance estimates of carbon export in different water masses of the Chukchi Sea shelf. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 130, 88-99.	0.6	7
146	Fe-binding organic ligands in coastal and frontal regions of the western Antarctic Peninsula. Biogeosciences, 2021, 18, 4587-4601.	1.3	7
147	Changes in Underâ€Ice Primary Production in the Chukchi Sea From 1988 to 2018. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017483.	1.0	7
148	Insignificant buffering capacity of Antarctic shelf carbonates. Global Biogeochemical Cycles, 2013, 27, 11-20.	1.9	6
149	The Sulfur-Isotopic Composition of Cenozoic Seawater Sulfate: Implications for Pyrite Burial and Atmospheric Oxygen. International Geology Review, 2000, 42, 491-498.	1.1	5
150	Increased exposure of Southern Ocean phytoplankton to ultraviolet radiation. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	5
151	Seasonal Water Mass Evolution and Nonâ€Redfield Dynamics Enhance CO₂ Uptake in the Chukchi Sea. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	5
152	Physical Controls on the Macrofaunal Benthic Biomass in Barrow Canyon, Chukchi Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017091.	1.0	4
153	The distribution of Fe across the shelf of the Western Antarctic Peninsula at the start of the phytoplankton growing season. Marine Chemistry, 2021, , 104066.	0.9	3
154	Increases in Benthic Particulate Export and Sedimentary Denitrification in the Northern Chukchi Sea Tied to Underâ€Ice Primary Production. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	3
155	Springtime phytoplankton responses to light and iron availability along the western Antarctic Peninsula. Limnology and Oceanography, 2022, 67, 800-815.	1.6	2