Gert L Van Dijken

List of Publications by Year
in descending order

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85 papers	8,492 citations	57631 44 h-index	53109 85 g-index
86 all docs	86 docs citations	86 times ranked	6430 citing authors

#	Article	IF	Citations
1	Impact of a shrinking Arctic ice cover on marine primary production. Geophysical Research Letters, 2008, 35, .	1.5	763
2	Massive Phytoplankton Blooms Under Arctic Sea Ice. Science, 2012, 336, 1408-1408.	6.0	606
3	Primary production in the Southern Ocean, 1997â€“2006. Journal of Geophysical Research, 2008, 113, .	3.3	521
4	Continued increases in Arctic Ocean primary production. Progress in Oceanography, 2015, 136, 60-70.	1.5	506
5	Phytoplankton dynamics within 37 Antarctic coastal polynya systems. Journal of Geophysical Research, 2003, 108, .	3.3	389
6	Secular trends in Arctic Ocean net primary production. Journal of Geophysical Research, 2011, 116, .	3.3	339
7	Primary production in the Arctic Ocean, 1998â€“2006. Journal of Geophysical Research, 2008, 113, .	3.3	308
8	Changes in phytoplankton concentration now drive increased Arctic Ocean primary production. Science, 2020, 369, 198-202.	6.0	244
9	Coastal Southern Ocean: A strong anthropogenic CO₂ sink. Geophysical Research Letters, 2008, 35, .	1.5	211
10	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
11	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
12	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
13	Environmental controls of marine productivity hot spots around <scp>A</scp>ntarctica. Journal of Geophysical Research: Oceans, 2015, 120, 5545-5565.	1.0	162
14	Alternative photosynthetic electron flow to oxygen in marine Synechococcus. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 269-276.	0.5	155
15	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
16	Photophysiology in two major Southern Ocean phytoplankton taxa: Photoprotection in Phaeocystis antarctica and Fragilariopsis cylindrus. Limnology and Oceanography, 2009, 54, 1176-1196.	1.6	133
17	Ecological impact of a large Antarctic iceberg. Geophysical Research Letters, 2002, 29, 8-1.	1.5	125
18	Annual cycles of sea ice and phytoplankton in Cape Bathurst polynya, southeastern Beaufort Sea, Canadian Arctic. Geophysical Research Letters, 2004, 31, .	1.5	124

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19	Productivity in the Barents Sea - Response to Recent Climate Variability. PLoS ONE, 2014, 9, e95273.	1.1	123
20	ASPIRE: The Amundsen Sea Polynya International Research Expedition. Oceanography, 2012, 25, 40-53.	0.5	116
21	Mapping phytoplankton iron utilization: Insights into Southern Ocean supply mechanisms. Journal of Geophysical Research, 2012, 117, .	3.3	113
22	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
23	Ecological control of nitrite in the upper ocean. Nature Communications, 2018, 9, 1206.	5.8	107
24	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
25	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
26	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
27	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
28	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
29	A comparison between excess barium and barite as indicators of carbon export. Paleoceanography, 2003, 18, n/a-n/a.	3.0	90
30	Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. Geophysical Research Letters, 2017, 44, 6278-6285.	1.5	82
31	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. Geophysical Research Letters, 2017, 44, 5016-5024.	1.5	79
32	Climate effects on temporal and spatial dynamics of phytoplankton and zooplankton in the Barents Sea. Progress in Oceanography, 2020, 185, 102320.	1.5	78
33	A reassessment of primary production and environmental change in the Bering Sea. Journal of Geophysical Research, 2011, 116, .	3.3	73
34	Iron supply and demand in an Antarctic shelf ecosystem. Geophysical Research Letters, 2015, 42, 8088-8097.	1.5	73
35	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
36	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

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37	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
38	Impact of iceberg C-19 on Ross Sea primary production. Geophysical Research Letters, 2003, 30, .	1.5	64
39	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
40	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
41	Unusual marine cyanobacteria/haptophyte symbiosis relies on N2 fixation even in N-rich environments. ISME Journal, 2020, 14, 2395-2406.	4.4	58
42	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
43	Photoacclimation of Arctic Ocean phytoplankton to shifting light and nutrient limitation. Limnology and Oceanography, 2019, 64, 284-301.	1.6	54
44	Airâ€sea flux of CO₂ in the Arctic Ocean, 1998â€“2003. Journal of Geophysical Research, 2010, 115, .	3.3	51
45	Regional chlorophyll a algorithms in the Arctic Ocean and their effect on satellite-derived primary production estimates. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 130, 14-27.	0.6	47
46	Early Spring Phytoplankton Dynamics in the Western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2017, 122, 9350-9369.	1.0	45
47	Environmental drivers of under-ice phytoplankton bloom dynamics in the Arctic Ocean. Elementa, 2020, 8, .	1.1	45
48	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
49	Influence of atmospheric nutrients on primary productivity in a coastal upwelling region. Global Biogeochemical Cycles, 2010, 24, .	1.9	42
50	Nitrogen Limitation of the Summer Phytoplankton and Heterotrophic Prokaryote Communities in the Chukchi Sea. Frontiers in Marine Science, 2018, 5, .	1.2	42
51	Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	1.1	42
52	Interannual variation in air-sea CO2flux in the Ross Sea, Antarctica: A model analysis. Journal of Geophysical Research, 2007, 112, .	3.3	41
53	Patterns and controlling factors of species diversity in the Arctic Ocean. Journal of Biogeography, 2012, 39, 2081-2088.	1.4	41
54	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

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55	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
56	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
57	Effects of ultraviolet radiation on marine ecosystems. International Journal of Environmental Studies, 1996, 51, 199-216.	0.7	34
58	Late Spring Nitrate Distributions Beneath the Iceâ€Covered Northeastern Chukchi Shelf. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2409-2417.	1.3	34
59	Underâ€Ice Phytoplankton Blooms Inhibited by Spring Convective Mixing in Refreezing Leads. Journal of Geophysical Research: Oceans, 2018, 123, 90-109.	1.0	34
60	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
61	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
62	Photoacclimation and non-photochemical quenching under in situ irradiance in natural phytoplankton assemblages from the Amundsen Sea, Antarctica. Marine Ecology - Progress Series, 2013, 475, 15-34.	0.9	29
63	Analysis of Iron Sources in Antarctic Continental Shelf Waters. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015736.	1.0	29
64	Impact of a deep ozone hole on Southern Ocean primary production. Journal of Geophysical Research, 2003, 108, .	3.3	28
65	Effects of iron and light availability on phytoplankton photosynthetic properties in the Ross Sea. Marine Ecology - Progress Series, 2019, 621, 33-50.	0.9	28
66	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
67	Massive Southern Ocean phytoplankton bloom fed by iron of possible hydrothermal origin. Nature Communications, 2021, 12, 1211.	5.8	25
68	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
69	Synergistic interactions among growing stressors increase risk to an Arctic ecosystem. Nature Communications, 2020, 11, 6255.	5.8	22
70	Dissolved Trace Metals in the Ross Sea. Frontiers in Marine Science, 2020, 7, .	1.2	21
71	Comparison of Cloud-Filling Algorithms for Marine Satellite Data. Remote Sensing, 2020, 12, 3313.	1.8	20
72	UCYN-A/haptophyte symbioses dominate N2 fixation in the Southern California Current System. ISME Communications, 2021, 1, .	1.7	17

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73	Warming of the Indian Ocean and its impact on temporal and spatial dynamics of primary production. Progress in Oceanography, 2021, 198, 102688.	1.5	16
74	Response of marine bacterioplankton to a massive under-ice phytoplankton bloom in the Chukchi Sea (Western Arctic Ocean). Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 105, 74-84.	0.6	12
75	Contrasting spring and summer phytoplankton dynamics in the nearshore Southern California Bight. Limnology and Oceanography, 2010, 55, 264-278.	1.6	11
76	Responses of psbA, hli and ptox genes to changes in irradiance in marine Synechococcus and Prochlorococcus. Aquatic Microbial Ecology, 2011, 65, 1-14.	0.9	11
77	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
78	Summer Highâ€Wind Events and Phytoplankton Productivity in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016565.	1.0	10
79	The organic complexation of iron in the Ross sea. Marine Chemistry, 2019, 215, 103672.	0.9	9
80	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
81	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
82	Insignificant buffering capacity of Antarctic shelf carbonates. Global Biogeochemical Cycles, 2013, 27, 11-20.	1.9	6
83	Increased exposure of Southern Ocean phytoplankton to ultraviolet radiation. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	5
84	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
85	Springtime phytoplankton responses to light and iron availability along the western Antarctic Peninsula. Limnology and Oceanography, 2022, 67, 800-815.	1.6	2