Meike Vogt

List of Publications by Year in descending order

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43 papers	2,802 citations	172457 29 h-index	265206 42 g-index
46 all docs	46 docs citations	46 times ranked	4119 citing authors

#	Article	IF	Citations
1	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	3.3	252
2	Globally Consistent Quantitative Observations of Planktonic Ecosystems. Frontiers in Marine Science, 2019, 6, .	2.5	234
3	Spatiotemporal variability and long-term trends of ocean acidification in the California Current System. Biogeosciences, 2013, 10, 193-216.	3.3	152
4	MAREDAT: towards a world atlas of MARine Ecosystem DATa. Earth System Science Data, 2013, 5, 227-239.	9.9	145
5	Global pattern of phytoplankton diversity driven by temperature and environmental variability. Science Advances, 2019, 5, eaau6253.	10.3	134
6	Obtaining Phytoplankton Diversity from Ocean Color: A Scientific Roadmap for Future Development. Frontiers in Marine Science, 2017, 4, .	2.5	133
7	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	1.4	110
8	Projected decreases in future marine export production: the role of the carbon flux through the upper ocean ecosystem. Biogeosciences, 2016, 13, 4023-4047.	3.3	106
9	Low sensitivity of cloud condensation nuclei to changes in the sea-air flux of dimethyl-sulphide. Atmospheric Chemistry and Physics, 2010, 10, 7545-7559.	4.9	105
10	Ecological niches of open ocean phytoplankton taxa. Limnology and Oceanography, 2015, 60, 1020-1038.	3.1	104
11	Functional traitâ€based approaches as a common framework for aquatic ecologists. Limnology and Oceanography, 2021, 66, 965-994.	3.1	99
12	Coupling of heterotrophic bacteria to phytoplankton bloom development at different <i>p</i>CO₂ levels: a mesocosm study. Biogeosciences, 2008, 5, 1007-1022.	3.3	97
13	Biogeochemical extremes and compound events in the ocean. Nature, 2021, 600, 395-407.	27.8	96
14	On the Southern Ocean CO₂ uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	4.9	85
15	Role of zooplankton dynamics for Southern Ocean phytoplankton biomass and global biogeochemical cycles. Biogeosciences, 2016, 13, 4111-4133.	3.3	84
16	Comparing food web structures and dynamics across a suite of global marine ecosystem models. Ecological Modelling, 2013, 261-262, 43-57.	2.5	71
17	Global marine plankton functional type biomass distributions: coccolithophores. Earth System Science Data, 2013, 5, 259-276.	9.9	71
18	The intensity, duration, and severity of low aragonite saturation state events on the California continental shelf. Geophysical Research Letters, 2013, 40, 3424-3428.	4.0	70

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19	Major restructuring of marine plankton assemblages under global warming. Nature Communications, 2021, 12, 5226.	12.8	67
20	Dynamics of dimethylsulphoniopropionate and dimethylsulphide under different CO₂ concentrations during a mesocosm experiment. Biogeosciences, 2008, 5, 407-419.	3.3	56
21	Simulating dimethylsulphide seasonality with the Dynamic Green Ocean Model PlankTOM5. Journal of Geophysical Research, 2010, 115, .	3.3	53
22	A first appraisal of prognostic ocean DMS models and prospects for their use in climate models. Global Biogeochemical Cycles, 2010, 24, .	4.9	50
23	Ocean acidification limits temperature-induced poleward expansion of coral habitats around Japan. Biogeosciences, 2012, 9, 4955-4968.	3.3	49
24	Do functional groups of planktonic copepods differ in their ecological niches?. Journal of Biogeography, 2018, 45, 604-616.	3.0	45
25	ENSOâ€Driven Variability of Denitrification and Suboxia in the Eastern Tropical Pacific Ocean. Global Biogeochemical Cycles, 2017, 31, 1470-1487.	4.9	41
26	Long-term trends in ocean plankton production and particle export between 1960â€“2006. Biogeosciences, 2013, 10, 7373-7393.	3.3	39
27	Global coccolithophore diversity: Drivers and future change. Progress in Oceanography, 2016, 140, 27-42.	3.2	36
28	Biogeographic classification of the Caspian Sea. Biogeosciences, 2014, 11, 6451-6470.	3.3	34
29	A global seasonal surface ocean climatology of phytoplankton types based on CHEMTAX analysis of HPLC pigments. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 109, 137-156.	1.4	33
30	Factors controlling coccolithophore biogeography in the Southern Ocean. Biogeosciences, 2018, 15, 6997-7024.	3.3	33
31	Laboratory inter-comparison of dissolved dimethyl sulphide (DMS) measurements using purge-and-trap and solid-phase microextraction techniques during a mesocosm experiment. Marine Chemistry, 2008, 108, 32-39.	2.3	22
32	Factors controlling the competition between <i>Phaeocystis</i> and diatoms in the Southern Ocean and implications for carbon export fluxes. Biogeosciences, 2021, 18, 251-283.	3.3	19
33	PhytoBase: A global synthesis of open-ocean phytoplankton occurrences. Earth System Science Data, 2020, 12, 907-933.	9.9	12
34	Mare Incognitum: A Glimpse into Future Plankton Diversity and Ecology Research. Frontiers in Marine Science, 2017, 4, .	2.5	10
35	Southern Ocean Phytoplankton Community Structure as a Gatekeeper for Global Nutrient Biogeochemistry. Global Biogeochemical Cycles, 2021, 35, e2021GB006991.	4.9	10
36	New Directions: Correspondence on â€œEnhancing the natural cycle to slow global warmingâ€â˜†. Atmospheric Environment, 2008, 42, 4803-4805.	4.1	8

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37	Adrift in an ocean of change. Science, 2015, 350, 1466-1468.	12.6	8
38	Strong Habitat Compression by Extreme Shoaling Events of Hypoxic Waters in the Eastern Pacific. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	8
39	Biome partitioning of the global ocean based on phytoplankton biogeography. Progress in Oceanography, 2021, 194, 102530.	3.2	7
40	Tracking the Spaceâ€Time Evolution of Ocean Acidification Extremes in the California Current System and Northeast Pacific. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	7
41	The Impacts of the Oceans on Climate Change. , 2008, , .		1
42	The Marine Biodiversity Observation Network Plankton Workshops: Plankton Ecosystem Function, Biodiversity, and Forecastingâ€"Research Requirements and Applications. Limnology and Oceanography Bulletin, 0, , .	0.4	1
43	Corrigendum to "The global distribution of pteropods and their contribution to carbonate and carbon biomass in the modern ocean" published in Earth Syst. Sci. Data, 4, 167â€"186, 2012. Earth System Science Data, 2013, 5, 1-1.	9.9	0