Kai G Schulz

List of PR Articles by Year in descending order

70 PR articles	2,421 PR citations	198607 25 PR h-index	180458 47 g-index
75 documents	2866 doc citations	194581 27 h-index	3502 citing authors

#	Article	IF	PR Citations
1	High carbon dioxide emissions from Australian estuaries driven by geomorphology and climate. Nature Communications, 2024, 15, .	13.9	5
2	Investigating the effect of silicate- and calcium-based ocean alkalinity enhancement on diatom silicification. Biogeosciences, 2024, 21, 2777-2794.	3.1	23
3	Effects of grain size and seawater salinity on magnesium hydroxide dissolution and secondary calcium carbonate precipitation kinetics: implications for ocean alkalinity enhancement. Biogeosciences, 2024, 21, 3463-3475.	3.1	8
4	Shading responses are species-specific in thermally stressed corals. Frontiers in Marine Science, 2024, 11, .	2.5	4
5	Preparation and quality control of inâ€house reference materials for marine dissolved inorganic carbon and total alkalinity measurements. Limnology and Oceanography: Methods, 2023, 21, 637-644.	1.7	3
6	Temporal dynamics of surface ocean carbonate chemistry in response to natural and simulated upwelling events during the 2017 coastal El NiÃ±o near Callao, Peru. Biogeosciences, 2022, 19, 295-312.	3.1	8
7	Ocean acidification alters the nutritional value of Antarctic diatoms. New Phytologist, 2022, 233, 1813-1827.	8.1	26
8	Water quality and the health of remnant leaf oyster (Isognomon ephippium) populations in four Australian estuaries. Science of the Total Environment, 2022, 826, 154061.	8.4	10
9	Ocean alkalinity enhancement â€“ avoiding runaway CaCO‹sub›3‹/sub›precipitation during quick and hydrated lime dissolution. Biogeosciences, 2022, 19, 3537-3557.	3.1	102
10	Assessing the influence of ocean alkalinity enhancement on a coastal phytoplankton community. Biogeosciences, 2022, 19, 5375-5399.	3.1	68
11	Warming and ocean acidification may decrease estuarine dissolved organic carbon export to the ocean. Biogeosciences, 2021, 18, 1823-1838.	3.1	9
12	Late Afternoon Seasonal Transition to Dissolution in a Coral Reef: An Early Warning of a Net Dissolving Ecosystem?. Geophysical Research Letters, 2021, 48, .	4.1	14
13	Ocean acidification may mitigate negative effects of warming on carbon burial potential in subtidal unvegetated estuarine sediments. Limnology and Oceanography, 2021, 66, 2953-2966.	3.6	8
14	Growthâ€dependent changes in elemental stoichiometry and macromolecular allocation in the coccolithophore ‹scp›‹i›Emiliania huxleyi‹/i›‹/scp› under different environmental conditions. Limnology and Oceanography, 2021, 66, 2999-3009.	3.6	11
15	Nitrogen loss processes in response to upwelling in a Peruvian coastal setting dominated by denitrification â€“ a mesocosm approach. Biogeosciences, 2021, 18, 4305-4320.	3.1	4
16	Seasonal variability of calcium carbonate precipitation and dissolution in shallow coral reef sediments. Limnology and Oceanography, 2020, 65, 876-891.	3.6	9
17	Ocean Acidification and Shortâ€Term Organic Matter Enrichment Alter Coral Reef Sediment Metabolism Through Different Pathways. Journal of Geophysical Research G: Biogeosciences, 2020, 125, .	2.9	0
18	Spatial Distribution of Phytoplankton Community Composition and Their Correlations with Environmental Drivers in Taiwan Strait of Southeast China. Diversity, 2020, 12, 433.	1.8	11

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19	A review of the biology of the genusIsognomon(Bivalvia; Pteriidae) with a discussion on shellfish reef restoration potential ofIsognomon ephippium. Molluscan Research, 2020, 40, 286-307.	0.8	13
20	The influence of plastic pollution and ocean change on detrital decomposition. Marine Pollution Bulletin, 2020, 158, 111354.	5.0	46
21	Ocean acidification reduces growth and grazing impact of Antarctic heterotrophic nanoflagellates. Biogeosciences, 2020, 17, 4153-4171.	3.1	6
22	Factors controlling plankton community production, export flux, and particulate matter stoichiometry in the coastal upwelling system off Peru. Biogeosciences, 2020, 17, 4831-4852.	3.1	27
23	Acidification diminishes diatom silica production in the Southern Ocean. Nature Climate Change, 2019, 9, 781-786.	18.5	98
24	A comparison of species specific sensitivities to changing light and carbonate chemistry in calcifying marine phytoplankton. Scientific Reports, 2019, 9, .	3.5	18
25	Carbon outwelling across the shelf following a massive mangrove dieback in Australia: Insights from radium isotopes. Geochimica Et Cosmochimica Acta, 2019, 253, 142-158.	4.8	50
26	Coral Reef Calcification and Production After the 2016 Bleaching Event at Lizard Island, Great Barrier Reef. Journal of Geophysical Research: Oceans, 2019, 124, 4003-4016.	3.0	20
27	Upwelling Amplifies Ocean Acidification on the East Australian Shelf: Implications for Marine Ecosystems. Frontiers in Marine Science, 2019, 6, .	2.5	32
28	Measuring total dissolved Fe concentrations in phytoplankton cultures in the presence of synthetic and organic ligands using a modified ferrozine method. Marine Chemistry, 2018, 203, 22-27.	2.3	2
29	Determining coral reef calcification and primary production using automated alkalinity, pH and pCO measurements at high temporal resolution. Estuarine, Coastal and Shelf Science, 2018, 209, 80-88.	2.4	22
30	Population-specific responses in physiological rates of <i>Emiliania huxleyi</i> to a broad CO₂ range. Biogeosciences, 2018, 15, 3691-3701.	3.1	14
31	A three-dimensional niche comparison of <i>Emiliania huxleyi</i> and <i>Gephyrocapsa oceanica</i>: reconciling observations with projections. Biogeosciences, 2018, 15, 3541-3560.	3.1	34
32	Ocean acidification changes the structure of an Antarctic coastal protistan community. Biogeosciences, 2018, 15, 2393-2410.	3.1	34
33	Shift towards larger diatoms in a natural phytoplankton assemblage under combined high-CO2 and warming conditions. Journal of Plankton Research, 2018, 40, 391-406.	1.7	30
34	Ocean acidification of a coastal Antarctic marine microbial community reveals a critical threshold for CO₂ tolerance in phytoplankton productivity. Biogeosciences, 2018, 15, 209-231.	3.1	37
35	A Conceptual Model for Projecting Coccolithophorid Growth, Calcification and Photosynthetic Carbon Fixation Rates in Response to Global Ocean Change. Frontiers in Marine Science, 2018, 4, .	2.5	31
36	Taking the metabolic pulse of the worldâ€™s coral reefs. PLoS ONE, 2018, 13, e0190872.	2.4	118

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37	Responses of the diatom Asterionellopsis glacialis to increasing sea water CO2 concentrations and turbulence. Marine Ecology - Progress Series, 2018, 589, 33-44.	1.9	5
38	Blue carbon oxidation revealed by radiogenic and stable isotopes in a mangrove system. Geophysical Research Letters, 2017, 44, 4889-4896.	4.1	66
39	Respiration of new and old carbon in the surface ocean: Implications for estimates of global oceanic gross primary productivity. Global Biogeochemical Cycles, 2017, 31, 975-984.	5.2	24
40	Nutrient-specific responses of a phytoplankton community: a case study of the North Atlantic Gyre, Azores. Journal of Plankton Research, 2017, 39, 744-761.	1.7	41
41	Phytoplankton Blooms at Increasing Levels of Atmospheric Carbon Dioxide: Experimental Evidence for Negative Effects on Prymnesiophytes and Positive on Small Picoeukaryotes. Frontiers in Marine Science, 2017, 4, .	2.5	81
42	Ciliate and mesozooplankton community response to increasing CO₂ levels in the Baltic Sea: insights from a large-scale mesocosm experiment. Biogeosciences, 2017, 14, 447-466.	3.1	15
43	The short-term combined effects of temperature and organic matter enrichment on permeable coral reef carbonate sediment metabolism and dissolution. Biogeosciences, 2017, 14, 5377-5391.	3.1	12
44	Ocean acidification impacts bacteriaâ€“phytoplankton coupling at low-nutrient conditions. Biogeosciences, 2017, 14, 1-15.	3.1	35
45	Phytoplankton interactions can alter species response to present and future CO2 concentrations. Marine Ecology - Progress Series, 2017, 575, 31-42.	1.9	6
46	Ocean acidification decreases plankton respiration: evidence from a mesocosm experiment. Biogeosciences, 2016, 13, 4707-4719.	3.1	19
47	Effect of ocean acidification and elevated <i>f</i>CO₂ on trace gas production by a Baltic Sea summer phytoplankton community. Biogeosciences, 2016, 13, 4595-4613.	3.1	21
48	Effects of ocean acidification on pelagic carbon fluxes in a mesocosm experiment. Biogeosciences, 2016, 13, 6081-6093.	3.1	20
49	Effects of CO₂ perturbation on phosphorus pool sizes and uptake in a mesocosm experiment during a low productive summer season in the northern Baltic Sea. Biogeosciences, 2016, 13, 3035-3050.	3.1	13
50	The role of coccoliths in protecting <i>Emiliania huxleyi</i> against stressful light and UV radiation. Biogeosciences, 2016, 13, 4637-4643.	3.1	33
51	No observed effect of ocean acidification on nitrogen biogeochemistry in a summer Baltic Sea plankton community. Biogeosciences, 2016, 13, 3901-3913.	3.1	25
52	Survival and settling of larval <i>Macoma balthica</i> in a large-scale mesocosm experiment at different <i>f</i>CO₂ levels. Biogeosciences, 2016, 13, 3377-3385.	3.1	6
53	The Omega myth: what really drives lower calcification rates in an acidifying ocean. ICES Journal of Marine Science, 2016, 73, 558-562.	2.8	147
54	Response to Waldbusser et al. (2016): â€œCalcium carbonate saturation state: on myths and this or that storiesâ€• ICES Journal of Marine Science, 2016, 73, 569-571.	2.8	22

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55	Ocean acidification does not alter grazing in the calanoid copepods Calanus finmarchicus and Calanus glacialis. ICES Journal of Marine Science, 2016, 73, 927-936.	2.8	21
56	Competitive fitness of a predominant pelagic calcifier impaired by ocean acidification. Nature Geoscience, 2016, 10, 19-23.	11.6	89
57	Phytoplankton calcification as an effective mechanism to alleviate cellular calcium poisoning. Biogeosciences, 2015, 12, 6493-6501.	3.1	30
58	Effect of elevated CO₂ on organic matter pools and fluxes in a summer Baltic Sea plankton community. Biogeosciences, 2015, 12, 6181-6203.	3.1	85
59	Drivers of carbon isotopic fractionation in a coral reef lagoon: Predominance of demand over supply. Geochimica Et Cosmochimica Acta, 2015, 153, 105-115.	4.8	11
60	The modulating effect of light intensity on the response of the coccolithophore <scp>G</scp>ephyrocapsa oceanica to ocean acidification. Limnology and Oceanography, 2015, 60, 2145-2157.	3.6	37
61	Influence of temperature and CO₂ on the strontium and magnesium composition of coccolithophore calcite. Biogeosciences, 2014, 11, 1065-1075.	3.1	39
62	Marine CDOM accumulation during a coastal Arctic mesocosm experiment: No response to elevated pCO₂ levels. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1216-1230.	2.9	32
63	Impact of CO2 enrichment on organic matter dynamics during nutrient induced coastal phytoplankton blooms. Journal of Plankton Research, 2014, 36, 641-657.	1.7	87
64	Enhanced acidification of global coral reefs driven by regional biogeochemical feedbacks. Geophysical Research Letters, 2014, 41, 5538-5546.	4.1	59
65	Effects of ocean acidification on the biogenic composition of the sea-surface microlayer: Results from a mesocosm study. Journal of Geophysical Research: Oceans, 2014, 119, 7911-7924.	3.0	31
66	Betweenâ€•and withinâ€population variations in thermal reaction norms of the coccolithophore Emiliania huxleyi. Limnology and Oceanography, 2014, 59, 1570-1580.	3.6	38
67	Temperature Modulates Coccolithophorid Sensitivity of Growth, Photosynthesis and Calcification to Increasing Seawater pCO2. PLoS ONE, 2014, 9, e88308.	2.4	153
68	Dissecting the impact of CO₂ and <scp>pH</scp> on the mechanisms of photosynthesis and calcification in the coccolithophore Emiliania huxleyi. New Phytologist, 2013, 199, 121-134.	8.1	199
69	Ocean Acidification-Induced Food Quality Deterioration Constrains Trophic Transfer. PLoS ONE, 2012, 7, e34737.	2.4	264
70	Simulated 21st century's increase in oceanic suboxia by CO₂â€enhanced biotic carbon export. Global Biogeochemical Cycles, 2008, 22, .	5.2	247