

Gerald

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

2,447

citations

28

h-index

48

g-index

75

ext. papers

2,890

ext. citations

4.6

avg, IF

4.96

L-index

#	Paper	IF	Citations
68	Reduced H channel activity disrupts pH homeostasis and calcification in coccolithophores at low ocean pH.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2118009119	11.5	1
67	Role of silicon in the development of complex crystal shapes in coccolithophores. <i>New Phytologist</i> , 2021 , 231, 1845-1857	9.8	10
66	Coccolith crystals: Pure calcite or organic-mineral composite structures?. <i>Acta Biomaterialia</i> , 2021 , 125, 83-89	10.8	0
65	Coccolithophore calcification: Changing paradigms in changing oceans. <i>Acta Biomaterialia</i> , 2021 , 120, 4-11	10.8	7
64	Haplo-diplontic life cycle expands coccolithophore niche. <i>Biogeosciences</i> , 2021 , 18, 1161-1184	4.6	7
63	Li Partitioning Into Coccoliths of <i>Emiliana huxleyi</i> : Evaluating the General Role of Vital Effects in Explaining Element Partitioning in Biogenic Carbonates. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009129	3.6	3
62	Sr in coccoliths of <i>Scyphosphaera apsteinii</i> : Partitioning behavior and role in coccolith morphogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 285, 41-54	5.5	4
61	Effects of Temperature and Light on Methane Production of Widespread Marine Phytoplankton. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005793	3.7	5
60	Methane production by three widespread marine phytoplankton species: release rates, precursor compounds, and potential relevance for the environment. <i>Biogeosciences</i> , 2019 , 16, 4129-4144	4.6	26
59	Relationship between mineralogy and minor element partitioning in limpets from an Ischia CO2 vent site provides new insights into their biomineralization pathway. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 236, 218-229	5.5	5
58	Lithium isotopic composition of benthic foraminifera: A new proxy for paleo-pH reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 236, 336-350	5.5	22
57	The dissolution behavior of biogenic calcites in seawater and a possible role for magnesium and organic carbon. <i>Marine Chemistry</i> , 2018 , 205, 100-112	3.7	11
56	Temperature effects on sinking velocity of different <i>Emiliana huxleyi</i> strains. <i>PLoS ONE</i> , 2018 , 13, e0194336	3.7	4
55	An Extracellular Polysaccharide-Rich Organic Layer Contributes to Organization of the Cocosphere in Coccolithophores. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	7
54	The requirement for calcification differs between ecologically important coccolithophore species. <i>New Phytologist</i> , 2018 , 220, 147-162	9.8	21
53	Phosphorus limitation and heat stress decrease calcification in <i>Emiliana huxleyi</i>. <i>Biogeosciences</i> , 2018 , 15, 833-845	4.6	5
52	Ba incorporation in benthic foraminifera. <i>Biogeosciences</i> , 2017 , 14, 3387-3400	4.6	12

51	Exploring foraminiferal Sr/Ca as a new carbonate system proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 202, 374-386	5.5	23
50	Growth of the coccolithophore &i>Emiliana huxleyi&/i> in light- and nutrient-limited batch reactors: relevance for the BIOSOPE deep ecological niche of coccolithophores. <i>Biogeosciences</i> , 2016 , 13, 5983-6001	4.6	24
49	Coccospheres confer mechanical protection: New evidence for an old hypothesis. <i>Acta Biomaterialia</i> , 2016 , 42, 258-264	10.8	16
48	Sr partitioning in the benthic foraminifera <i>Ammonia aomoriensis</i> and <i>Amphistegina lessonii</i> . <i>Chemical Geology</i> , 2016 , 440, 306-312	4.2	11
47	Temperature affects the morphology and calcification of &i>Emiliana huxleyi&/i> strains. <i>Biogeosciences</i> , 2016 , 13, 2913-2926	4.6	27
46	Evidence for methane production by the marine algae &i>Emiliana huxleyi&/i>. <i>Biogeosciences</i> , 2016 , 13, 3163-3174	4.6	64
45	Ocean warming modulates the effects of acidification on <i>Emiliana huxleyi</i> calcification and sinking. <i>Limnology and Oceanography</i> , 2016 , 61, 1322-1336	4.8	20
44	The coordination and distribution of B in foraminiferal calcite. <i>Earth and Planetary Science Letters</i> , 2015 , 416, 67-72	5.3	45
43	Phosphorus availability modifies carbon production in <i>Coccolithus pelagicus</i> (Haptophyta). <i>Journal of Experimental Marine Biology and Ecology</i> , 2015 , 472, 24-31	2.1	14
42	Alkenone D as an ecological indicator: A culture and field study of physiologically-controlled chemical and hydrogen-isotopic variation in C37 alkenones. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 162, 166-182	5.5	18
41	The impact of Mg contents on Sr partitioning in benthic foraminifers. <i>Chemical Geology</i> , 2015 , 412, 92-98	4.2	17
40	Li partitioning in the benthic foraminifera <i>Amphistegina lessonii</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 4275-4279	3.6	10
39	Boron incorporation in the foraminifer &i>Amphistegina lessonii&/i> under a decoupled carbonate chemistry. <i>Biogeosciences</i> , 2015 , 12, 1753-1763	4.6	20
38	Impact of seawater [Ca ²⁺] on the calcification and calcite Mg / Ca of &i>Amphistegina lessonii&/i>. <i>Biogeosciences</i> , 2015 , 12, 2153-2162	4.6	19
37	Insight into &i>Emiliana huxleyi&/i> coccospheres by focused ion beam sectioning. <i>Biogeosciences</i> , 2015 , 12, 825-834	4.6	19
36	Trace metal (Mg/Ca and Sr/Ca) analyses of single coccoliths by Secondary Ion Mass Spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 146, 90-106	5.5	16
35	Variability in calcitic Mg/Ca and Sr/Ca ratios in clones of the benthic foraminifer <i>Ammonia tepida</i> . <i>Marine Micropaleontology</i> , 2014 , 107, 32-43	1.7	41
34	Effect of phosphorus limitation on coccolith morphology and element ratios in Mediterranean strains of the coccolithophore <i>Emiliana huxleyi</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2014 , 459, 105-113	2.1	29

33	Limpets counteract ocean acidification induced shell corrosion by thickening of aragonitic shell layers. <i>Biogeosciences</i> , 2014 , 11, 7363-7368	4.6	20
32	Effect of different seawater Mg concentrations on calcification in two benthic foraminifers. <i>Marine Micropaleontology</i> , 2014 , 113, 56-64	1.7	36
31	On culture artefacts in coccolith morphology. <i>Helgoland Marine Research</i> , 2013 , 67, 359-369	1.8	16
30	Substrate supply for calcite precipitation in <i>Emiliana huxleyi</i> : assessment of different model approaches. <i>Journal of Phycology</i> , 2013 , 49, 417-26	3	12
29	The coordination of Mg in foraminiferal calcite. <i>Earth and Planetary Science Letters</i> , 2013 , 383, 134-141	5.3	41
28	Coccolithophores do not increase particulate carbon production under nutrient limitation: A case study using <i>Emiliana huxleyi</i> (PML B92/11). <i>Journal of Experimental Marine Biology and Ecology</i> , 2013 , 443, 155-161	2.1	22
27	Incorporation of uranium in benthic foraminiferal calcite reflects seawater carbonate ion concentration. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 102-111	3.6	41
26	Effect of ocean acidification on the benthic foraminifera &Ammonia sp. is caused by a decrease in carbonate ion concentration. <i>Biogeosciences</i> , 2013 , 10, 6185-6198	4.6	43
25	A new model for biomineralization and trace-element signatures of Foraminifera tests. <i>Biogeosciences</i> , 2013 , 10, 6759-6767	4.6	92
24	Calcification of <i>Calcidiscus leptoporus</i> under nitrogen and phosphorus limitation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012 , 413, 131-137	2.1	28
23	Calcification acidifies the microenvironment of a benthic foraminifer (<i>Ammonia</i> sp.). <i>Journal of Experimental Marine Biology and Ecology</i> , 2012 , 424-425, 53-58	2.1	41
22	B/Ca in coccoliths and relationship to calcification vesicle pH and dissolved inorganic carbon concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 80, 143-157	5.5	38
21	Implications of observed inconsistencies in carbonate chemistry measurements for ocean acidification studies. <i>Biogeosciences</i> , 2012 , 9, 2401-2405	4.6	59
20	A universal carbonate ion effect on stable oxygen isotope ratios in unicellular planktonic calcifying organisms. <i>Biogeosciences</i> , 2012 , 9, 1025-1032	4.6	39
19	CO ₂ mediation of adverse effects of seawater acidification in <i>Calcidiscus leptoporus</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	24
18	<i>Emiliana huxleyi</i> shows identical responses to elevated pCO ₂ in TA and DIC manipulations. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011 , 406, 54-62	2.1	79
17	Comment on In situ multi-elemental monitoring in coral skeleton by CF-LIBS by S. Pandhija and A.K. Rai (DOI:10.1007/s00340-008-3343-5). <i>Applied Physics B: Lasers and Optics</i> , 2011 , 104, 1043-1043	1.9	1
16	Calcium carbonate precipitation induced by the growth of the marine cyanobacteria <i>Trichodesmium</i> . <i>Limnology and Oceanography</i> , 2010 , 55, 2563-2569	4.8	35

15	Carbon and nitrogen fluxes in the marine coccolithophore <i>Emiliana huxleyi</i> grown under different nitrate concentrations. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010 , 393, 1-8	2.1	34
14	ON THE ROLE OF THE CYTOSKELETON IN COCCOLITH MORPHOGENESIS: THE EFFECT OF CYTOSKELETON INHIBITORS1. <i>Journal of Phycology</i> , 2010 , 46, 1252-1256	3	34
13	Strain-specific responses of <i>Emiliana huxleyi</i> to changing seawater carbonate chemistry. <i>Biogeosciences</i> , 2009 , 6, 2637-2646	4.6	275
12	Barium partitioning in coccoliths of <i>Emiliana huxleyi</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 2899-2996	2.9	28
11	Physiological controls on seawater uptake and calcification in the benthic foraminifer <i>Ammonia tepida</i> . <i>Biogeosciences</i> , 2009 , 6, 2669-2675	4.6	53
10	Calcium isotope fractionation during coccolith formation in <i>Emiliana huxleyi</i> : Independence of growth and calcification rate. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	53
9	Effect of varying calcium concentrations and light intensities on calcification and photosynthesis in <i>Emiliana huxleyi</i> . <i>Limnology and Oceanography</i> , 2007 , 52, 2285-2293	4.8	73
8	Calcium isotope fractionation in coccoliths of cultured <i>Calcidiscus leptoporus</i> , <i>Helicosphaera carteri</i> , <i>Syracosphaera pulchra</i> and <i>Umbilicosphaera foliosa</i> . <i>Earth and Planetary Science Letters</i> , 2007 , 260, 505-515	5.3	42
7	Dissolution of <i>Calcidiscus leptoporus</i> coccoliths in copepod guts? A morphological study. <i>Marine Ecology - Progress Series</i> , 2007 , 331, 139-146	2.6	11
6	Species-specific responses of calcifying algae to changing seawater carbonate chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	305
5	The effect of temperature, salinity and growth rate on the stable hydrogen isotopic composition of long chain alkenones produced by <i>Emiliana huxleyi</i> and <i>Gephyrocapsa oceanica</i> . <i>Biogeosciences</i> , 2006 , 3, 113-119	4.6	129
4	Cellular calcium pathways and isotope fractionation in <i>Emiliana huxleyi</i> . <i>Geology</i> , 2006 , 34, 625	5	84
3	Coccolith strontium to calcium ratios in <i>Emiliana huxleyi</i> : The dependence on seawater strontium and calcium concentrations. <i>Limnology and Oceanography</i> , 2006 , 51, 310-320	4.8	70
2	Evidence for methane production by marine algae (<i>Emiliana huxleyi</i>) and its implication for the methane paradox in oxic waters		4
1	Distinct physiological responses of <i>Coccolithus braarudii</i> life cycle phases to light intensity and nutrient availability. <i>European Journal of Phycology</i> , 1-14	2.2	0