Glen L Wheeler

List of Publications by Year
in descending order

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35 papers	3,530 citations	304743 22 h-index	345221 36 g-index
46 all docs	46 docs citations	46 times ranked	4479 citing authors

#	Article	IF	Citations
1	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.	5.6	885
2	Pan genome of the phytoplankton Emiliania underpins its global distribution. Nature, 2013, 499, 209-213.	27.8	448
3	Insights into the red algae and eukaryotic evolution from the genome of Porphyra umbilicalis (Bangiophyceae, Rhodophyta). Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6361-E6370.	7.1	233
4	Ca2+ signalling in plants and green algae â€“ changing channels. Trends in Plant Science, 2008, 13, 506-514.	8.8	205
5	A Voltage-Gated H+ Channel Underlying pH Homeostasis in Calcifying Coccolithophores. PLoS Biology, 2011, 9, e1001085.	5.6	202
6	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.	7.3	171
7	Calcium channels in photosynthetic eukaryotes: implications for evolution of calciumâ€based signalling. New Phytologist, 2010, 187, 23-43.	7.3	153
8	Coccolithophore Cell Biology: Chalking Up Progress. Annual Review of Marine Science, 2017, 9, 283-310.	11.6	118
9	A P _{IIB} -type Ca ²⁺ -ATPase is essential for stress adaptation in Physcomitrella patens. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19555-19560.	7.1	116
10	Molecular Mechanisms Underlying Calcification in Coccolithophores. Geomicrobiology Journal, 2010, 27, 585-595.	2.0	110
11	The Evolution of Silicon Transport in Eukaryotes. Molecular Biology and Evolution, 2016, 33, 3226-3248.	8.9	107
12	Expression of biomineralizationâ€related ion transport genes in Emiliania huxleyi. Environmental Microbiology, 2011, 13, 3250-3265.	3.8	82
13	A role for diatom-like silicon transporters in calcifying coccolithophores. Nature Communications, 2016, 7, 10543.	12.8	78
14	Compartmentalized Calcium Signaling in Cilia Regulates Intraflagellar Transport. Current Biology, 2013, 23, 2311-2318.	3.9	68
15	Alternative Mechanisms for Fast Na+/Ca2+ Signaling in Eukaryotes via a Novel Class of Single-Domain Voltage-Gated Channels. Current Biology, 2019, 29, 1503-1511.e6.	3.9	46
16	Coccolithophore biomineralization: New questions, new answers. Seminars in Cell and Developmental Biology, 2015, 46, 11-16.	5.0	42
17	Biolistic delivery of Ca2+dyes into plant and algal cells. Plant Journal, 2006, 46, 327-335.	5.7	39
18	Rapid spatiotemporal patterning of cytosolic Ca²⁺ underlies flagellar excision in Chlamydomonas reinhardtii. Plant Journal, 2008, 53, 401-413.	5.7	39

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19	Spatial and temporal specificity of Ca²⁺ signalling in Chlamydomonas reinhardtii in response to osmotic stress. New Phytologist, 2016, 212, 920-933.	7.3	35
20	The requirement for calcification differs between ecologically important coccolithophore species. New Phytologist, 2018, 220, 147-162.	7.3	33
21	Dynamic changes in carbonate chemistry in the microenvironment around single marine phytoplankton cells. Nature Communications, 2018, 9, 74.	12.8	31
22	The role of the cytoskeleton in biomineralisation in haptophyte algae. Scientific Reports, 2017, 7, 15409.	3.3	26
23	Coccolithophore calcification: Changing paradigms in changing oceans. Acta Biomaterialia, 2021, 120, 4-11.	8.3	24
24	Role of silicon in the development of complex crystal shapes in coccolithophores. New Phytologist, 2021, 231, 1845-1857.	7.3	24
25	A Novel Ca2+ Signaling Pathway Coordinates Environmental Phosphorus Sensing and Nitrogen Metabolism in Marine Diatoms. Current Biology, 2021, 31, 978-989.e4.	3.9	24
26	Spatiotemporal patterns of intracellular Ca²⁺ signalling govern hypoâ€osmotic stress resilience in marine diatoms. New Phytologist, 2021, 230, 155-170.	7.3	23
27	Reduced H⁺channel activity disrupts pH homeostasis and calcification in coccolithophores at low ocean pH. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118009119.	7.1	17
28	An Extracellular Polysaccharide-Rich Organic Layer Contributes to Organization of the Coccosphere in Coccolithophores. Frontiers in Marine Science, 2018, 5, .	2.5	15
29	A Novel Single-Domain Na⁺-Selective Voltage-Gated Channel in Photosynthetic Eukaryotes. Plant Physiology, 2020, 184, 1674-1683.	4.8	15
30	Ca2+ elevations disrupt interactions between intraflagellar transport and the flagella membrane in Chlamydomonas. Journal of Cell Science, 2021, 134, .	2.0	15
31	Haplo-diplontic life cycle expands coccolithophore niche. Biogeosciences, 2021, 18, 1161-1184.	3.3	12
32	Calcium-Dependent Signalling Processes in Chlamydomonas. Microbiology Monographs, 2017, , 233-255.	0.6	10
33	Sr in coccoliths of Scyphosphaera apsteinii: Partitioning behavior and role in coccolith morphogenesis. Geochimica Et Cosmochimica Acta, 2020, 285, 41-54.	3.9	9
34	Regulation and integration of membrane transport in marine diatoms. Seminars in Cell and Developmental Biology, 2023, 134, 79-89.	5.0	7
35	Distinct physiological responses ofCoccolithus braarudiilife cycle phases to light intensity and nutrient availability. European Journal of Phycology, 2023, 58, 58-71.	2.0	3