

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
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all docs

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docs citations

46
times ranked

4479
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation and integration of membrane transport in marine diatoms. <i>Seminars in Cell and Developmental Biology</i> , 2023, 134, 79-89.	5.0	7
2	Distinct physiological responses of <i>Coccolithus braarudii</i> life cycle phases to light intensity and nutrient availability. <i>European Journal of Phycology</i> , 2023, 58, 58-71.	2.0	3
3	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.	7.1	17
4	Coccolithophore calcification: Changing paradigms in changing oceans. <i>Acta Biomaterialia</i> , 2021, 120, 4-11.	8.3	24
5	Spatiotemporal patterns of intracellular Ca ²⁺ signalling govern hypo-osmotic stress resilience in marine diatoms. <i>New Phytologist</i> , 2021, 230, 155-170.	7.3	23
6	Haplo-diplontic life cycle expands coccolithophore niche. <i>Biogeosciences</i> , 2021, 18, 1161-1184.	3.3	12
7	Ca ²⁺ elevations disrupt interactions between intraflagellar transport and the flagella membrane in <i>Chlamydomonas</i> . <i>Journal of Cell Science</i> , 2021, 134, .	2.0	15
8	Role of silicon in the development of complex crystal shapes in coccolithophores. <i>New Phytologist</i> , 2021, 231, 1845-1857.	7.3	24
9	A Novel Ca ²⁺ Signaling Pathway Coordinates Environmental Phosphorus Sensing and Nitrogen Metabolism in Marine Diatoms. <i>Current Biology</i> , 2021, 31, 978-989.e4.	3.9	24
10	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.	3.9	9
11	A Novel Single-Domain Na ⁺ -Selective Voltage-Gated Channel in Photosynthetic Eukaryotes. <i>Plant Physiology</i> , 2020, 184, 1674-1683.	4.8	15
12	Alternative Mechanisms for Fast Na ⁺ /Ca ²⁺ Signaling in Eukaryotes via a Novel Class of Single-Domain Voltage-Gated Channels. <i>Current Biology</i> , 2019, 29, 1503-1511.e6.	3.9	46
13	Dynamic changes in carbonate chemistry in the microenvironment around single marine phytoplankton cells. <i>Nature Communications</i> , 2018, 9, 74.	12.8	31
14	An Extracellular Polysaccharide-Rich Organic Layer Contributes to Organization of the Cocosphere in Coccolithophores. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	15
15	The requirement for calcification differs between ecologically important coccolithophore species. <i>New Phytologist</i> , 2018, 220, 147-162.	7.3	33
16	Coccolithophore Cell Biology: Chalking Up Progress. <i>Annual Review of Marine Science</i> , 2017, 9, 283-310.	11.6	118
17	Insights into the red algae and eukaryotic evolution from the genome of <i>Porphyra umbilicalis</i> (Bangiophyceae, Rhodophyta). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6361-E6370.	7.1	233
18	The role of the cytoskeleton in biomineralisation in haptophyte algae. <i>Scientific Reports</i> , 2017, 7, 15409.	3.3	26

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19	Calcium-Dependent Signalling Processes in <i>Chlamydomonas</i> . <i>Microbiology Monographs</i> , 2017, , 233-255.	0.6	10
20	Spatial and temporal specificity of Ca ²⁺ signalling in <i>Chlamydomonas reinhardtii</i> in response to osmotic stress. <i>New Phytologist</i> , 2016, 212, 920-933.	7.3	35
21	The Evolution of Silicon Transport in Eukaryotes. <i>Molecular Biology and Evolution</i> , 2016, 33, 3226-3248.	8.9	107
22	A role for diatom-like silicon transporters in calcifying coccolithophores. <i>Nature Communications</i> , 2016, 7, 10543.	12.8	78
23	Coccolithophore biomineralization: New questions, new answers. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 11-16.	5.0	42
24	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.	5.6	885
25	Pan genome of the phytoplankton <i>Emiliana</i> underpins its global distribution. <i>Nature</i> , 2013, 499, 209-213.	27.8	448
26	Dissecting the impact of CO ₂ and pH on the mechanisms of photosynthesis and calcification in the coccolithophore <i>Emiliana huxleyi</i> . <i>New Phytologist</i> , 2013, 199, 121-134.	7.3	171
27	Compartmentalized Calcium Signaling in Cilia Regulates Intraflagellar Transport. <i>Current Biology</i> , 2013, 23, 2311-2318.	3.9	68
28	Expression of biomineralization-related ion transport genes in <i>Emiliana huxleyi</i> . <i>Environmental Microbiology</i> , 2011, 13, 3250-3265.	3.8	82
29	A Voltage-Gated H ⁺ Channel Underlying pH Homeostasis in Calcifying Coccolithophores. <i>PLoS Biology</i> , 2011, 9, e1001085.	5.6	202
30	Calcium channels in photosynthetic eukaryotes: implications for evolution of calcium-based signalling. <i>New Phytologist</i> , 2010, 187, 23-43.	7.3	153
31	Molecular Mechanisms Underlying Calcification in Coccolithophores. <i>Geomicrobiology Journal</i> , 2010, 27, 585-595.	2.0	110
32	Rapid spatiotemporal patterning of cytosolic Ca ²⁺ underlies flagellar excision in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2008, 53, 401-413.	5.7	39
33	Ca ²⁺ signalling in plants and green algae – changing channels. <i>Trends in Plant Science</i> , 2008, 13, 506-514.	8.8	205
34	A P _{1B} -type Ca ²⁺ -ATPase is essential for stress adaptation in <i>Physcomitrella patens</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19555-19560.	7.1	116
35	Biolistic delivery of Ca ²⁺ dyes into plant and algal cells. <i>Plant Journal</i> , 2006, 46, 327-335.	5.7	39