

Gill Malin

List of Publications by Year in descending order

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69
papers

5,845
citations

101384

36
h-index

102304

66
g-index

72
all docs

72
docs citations

72
times ranked

6002
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ evaluation of air-sea gas exchange parameterizations using novel conservative and volatile tracers. <i>Global Biogeochemical Cycles</i> , 2000, 14, 373-387.	1.9	1,177
2	A global database of sea surface dimethylsulfide (DMS) measurements and a procedure to predict sea surface DMS as a function of latitude, longitude, and month. <i>Global Biogeochemical Cycles</i> , 1999, 13, 399-444.	1.9	552
3	Environmental constraints on the production and removal of the climatically active gas dimethylsulphide (DMS) and implications for ecosystem modelling. <i>Biogeochemistry</i> , 2007, 83, 245-275.	1.7	433
4	The Response of Diatom Central Carbon Metabolism to Nitrogen Starvation Is Different from That of Green Algae and Higher Plants. <i>Plant Physiology</i> , 2012, 158, 299-312.	2.3	318
5	Structural and Regulatory Genes Required to Make the Gas Dimethyl Sulfide in Bacteria. <i>Science</i> , 2007, 315, 666-669.	6.0	256
6	ALGAL PRODUCTION OF DIMETHYL SULFIDE AND ITS ATMOSPHERIC ROLE ¹ . <i>Journal of Phycology</i> , 1997, 33, 889-896.	1.0	171
7	Coccolithovirus (Phycodnaviridae): Characterisation of a new large dsDNA algal virus that infects <i>Emiliana huxleyi</i> . <i>Archives of Virology</i> , 2002, 147, 1685-1698.	0.9	168
8	Novel biogenic iodine-containing trihalomethanes and other short-lived halocarbons in the coastal east Atlantic. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1191-1204.	1.9	163
9	Marine sulphur emissions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 159-169.	1.8	139
10	Isoprene and other non-methane hydrocarbons from seaweeds: a source of reactive hydrocarbons to the atmosphere. <i>Marine Chemistry</i> , 2004, 88, 61-73.	0.9	134
11	TROPHIC INTERACTIONS IN THE SEA: AN ECOLOGICAL ROLE FOR CLIMATE RELEVANT VOLATILES ¹ . <i>Journal of Phycology</i> , 2002, 38, 630-638.	1.0	112
12	Chapter 1 Impacts of the Oceans on Climate Change. <i>Advances in Marine Biology</i> , 2009, 56, 1-150.	0.7	110
13	Virus Succession Observed during an <i>Emiliana huxleyi</i> Bloom. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2484-2490.	1.4	108
14	The Atlantic Meridional Transect (AMT) Programme: A contextual view 1995-2005. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1485-1515.	0.6	90
15	VIRAL INFECTION OF EMILIANA HUXLEYI (PRYMNESIOPHYCEAE) LEADS TO ELEVATED PRODUCTION OF REACTIVE OXYGEN SPECIES. <i>Journal of Phycology</i> , 2006, 42, 1040-1047.	1.0	87
16	Growth rates of six coccolithophorid strains as a function of temperature. <i>Limnology and Oceanography</i> , 2008, 53, 1181-1185.	1.6	84
17	DMS production in a coccolithophorid bloom: evidence for the importance of dinoflagellate DMSP lyases. <i>Aquatic Microbial Ecology</i> , 2002, 26, 259-270.	0.9	79
18	Reduction of iodate to iodide by cold water diatom cultures. <i>Marine Chemistry</i> , 2007, 105, 169-180.	0.9	77

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19	Emission of atmospherically significant halocarbons by naturally occurring and farmed tropical macroalgae. <i>Biogeosciences</i> , 2013, 10, 3615-3633.	1.3	75
20	The variability in DMSP content and DMSP lyase activity in marine dinoflagellates. <i>Progress in Oceanography</i> , 2014, 120, 410-424.	1.5	75
21	Transcriptome analysis of the sulfate deficiency response in the marine microalga <i>Emiliana huxleyi</i> . <i>New Phytologist</i> , 2013, 199, 650-662.	3.5	71
22	Iodomethane production by two important marine cyanobacteria: <i>Prochlorococcus marinus</i> (CCMP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	69
23	Ethene (ethylene) production in the marine macroalga <i>Ulva</i> (<i>Enteromorpha</i>) <i>intestinalis</i> L. (<i>Chlorophyta</i> , <i>Ulvophyceae</i>): effect of light-stress and co-production with dimethyl sulphide. <i>Plant, Cell and Environment</i> , 2005, 28, 1136-1145.	2.8	55
24	Environmental constraints on the production and removal of the climatically active gas dimethylsulphide (DMS) and implications for ecosystem modelling. , 2007, , 245-275.		53
25	The production of volatile iodocarbons by biogenic marine aggregates. <i>Limnology and Oceanography</i> , 2008, 53, 867-872.	1.6	52
26	A first appraisal of prognostic ocean DMS models and prospects for their use in climate models. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	50
27	Seasonal and interannual variation of dissolved iodine speciation at a coastal Antarctic site. <i>Marine Chemistry</i> , 2010, 118, 171-181.	0.9	49
28	In vivo speciation studies and antioxidant properties of bromine in <i>Laminaria digitata</i> reinforce the significance of iodine accumulation for kelps. <i>Journal of Experimental Botany</i> , 2013, 64, 2653-2664.	2.4	49
29	Insights into the Regulation of DMSP Synthesis in the Diatom <i>Thalassiosira pseudonana</i> through APR Activity, Proteomics and Gene Expression Analyses on Cells Acclimating to Changes in Salinity, Light and Nitrogen. <i>PLoS ONE</i> , 2014, 9, e94795.	1.1	49
30	The effect of light stress on the release of volatile iodocarbons by three species of marine microalgae. <i>Limnology and Oceanography</i> , 2006, 51, 2849-2854.	1.6	46
31	Release and transformations of inorganic iodine by marine macroalgae. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 82, 406-414.	0.9	46
32	Identification of senescence and death in <i>Emiliana huxleyi</i> and <i>Thalassiosira pseudonana</i> : Cell staining, chlorophyll alterations, and dimethylsulfoniopropionate (DMSP) metabolism. <i>Limnology and Oceanography</i> , 2012, 57, 305-317.	1.6	46
33	Dimethylsulphoniopropionate (DMSP), DMSP-lyase activity (DLA) and dimethylsulphide (DMS) in 10 species of coccolithophore. <i>Marine Ecology - Progress Series</i> , 2010, 410, 13-23.	0.9	45
34	Vertical and temporal variability of DMSP lyase activity in a coccolithophorid bloom in the northern North Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 3001-3016.	0.6	44
35	Algal biofuels: impact significance and implications for EU multi-level governance. <i>Journal of Cleaner Production</i> , 2014, 72, 4-13.	4.6	41
36	Halocarbon emissions from marine phytoplankton and climate change. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 1355-1370.	1.8	40

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37	Effect of dead phytoplankton cells on the apparent efficiency of photosystem II. <i>Marine Ecology - Progress Series</i> , 2009, 382, 35-40.	0.9	40
38	Distribution of biogenic sulphur compounds during and just after the southwest monsoon in the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 617-632.	0.6	36
39	The role of dissolved infochemicals in mediating predator-prey interactions in the heterotrophic dinoflagellate <i>Oxyrrhis marina</i> . <i>Journal of Plankton Research</i> , 2011, 33, 629-639.	0.8	34
40	Concentrations of dimethylsulphoniopropionate and activities of dimethylsulphide-producing enzymes in batch cultures of nine dinoflagellate species. <i>Biogeochemistry</i> , 2012, 110, 87-107.	1.7	30
41	Ocean acidification has different effects on the production of dimethylsulfide and dimethylsulfoniopropionate measured in cultures of <i>Emiliana huxleyi</i> and a mesocosm study: a comparison of laboratory monocultures and community interactions. <i>Environmental Chemistry</i> , 2016, 13, 314.	0.7	29
42	The emission of volatile halocarbons by seaweeds and their response towards environmental changes. <i>Journal of Applied Phycology</i> , 2020, 32, 1377-1394.	1.5	26
43	A comparison of dimethylsulphide (DMS) data from the Atlantic Meridional Transect (AMT) programme with proposed algorithms for global surface DMS concentrations. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1720-1735.	0.6	25
44	Global sea-surface iodide observations, 1967–2018. <i>Scientific Data</i> , 2019, 6, 286.	2.4	25
45	The Role of Dimethylsulphoxide in the Marine Biogeochemical Cycle of Dimethylsulphide. <i>Oceanography and Marine Biology</i> , 2004, , 29-56.	1.0	25
46	OCEANS: New Pieces for the Marine Sulfur Cycle Jigsaw. <i>Science</i> , 2006, 314, 607-608.	6.0	24
47	Substrate kinetics of DMSP-lyases in axenic cultures and mesocosm populations of <i>Emiliana huxleyi</i> . <i>Aquatic Sciences</i> , 2007, 69, 352-359.	0.6	24
48	Dimethyl sulfide production: what is the contribution of the coccolithophores?. , 2004, , 127-164.		24
49	Dimethylsulphide, DMSP-lyase activity and microplankton community structure inside and outside of the Mauritanian upwelling. <i>Progress in Oceanography</i> , 2009, 83, 134-142.	1.5	21
50	Strong linkages between dimethylsulphoniopropionate (DMSP) and phytoplankton community physiology in a large subtropical and tropical Atlantic Ocean data set. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	21
51	Global oceanic DMS data inter-comparability. <i>Biogeochemistry</i> , 2012, 110, 147-161.	1.7	21
52	Emission of short-lived halocarbons by three common tropical marine microalgae during batch culture. <i>Journal of Applied Phycology</i> , 2018, 30, 341-353.	1.5	21
53	Effect of ocean acidification and elevated CO_2 on trace gas production by a Baltic Sea summer phytoplankton community. <i>Biogeosciences</i> , 2016, 13, 4595-4613.	1.3	20
54	Isolation and Characterization of a Double Stranded DNA Megavirus Infecting the Toxin-Producing Haptophyte <i>Prymnesium parvum</i> . <i>Viruses</i> , 2017, 9, 40.	1.5	20

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55	Climate-induced change in biogenic bromine emissions from the Antarctic marine biosphere. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	19
56	Halocarbon emissions by selected tropical seaweeds: species-specific and compound-specific responses under changing pH. <i>PeerJ</i> , 2017, 5, e2918.	0.9	19
57	Comparative study of the composition and genetic diversity of the picoeukaryote community in a Chinese aquaculture area and an open sea area. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 151-159.	0.4	18
58	Modelling the concentration of exuded dimethylsulphoniopropionate (DMSP) in the boundary layer surrounding phytoplankton cells. <i>Journal of Plankton Research</i> , 2010, 32, 253-257.	0.8	17
59	Identification of a periplasmic dimethylsulphoxide reductase in <i>Hyphomicrobium</i> EG grown under chemolithoheterotrophic conditions with dimethylsulphoxide as carbon source. <i>Archives of Microbiology</i> , 1994, 162, 148-150.	1.0	16
60	Insights into toxic <i>Prymnesium parvum</i> blooms: the role of sugars and algal viruses. <i>Biochemical Society Transactions</i> , 2018, 46, 413-421.	1.6	16
61	Characterization and Genome Sequence of Marine <i>Alteromonas gracilis</i> Phage PB15 Isolated from the Yellow Sea, China. <i>Current Microbiology</i> , 2017, 74, 821-826.	1.0	15
62	The effect of desiccation on the emission of volatile bromocarbons from two common temperate macroalgae. <i>Biogeosciences</i> , 2015, 12, 387-398.	1.3	12
63	Spatial variability in DMSP-lyase activity along an Atlantic meridional transect. <i>Aquatic Sciences</i> , 2007, 69, 320-329.	0.6	10
64	Halocarbon emissions by selected tropical seaweeds exposed to different temperatures. <i>Phytochemistry</i> , 2021, 190, 112869.	1.4	8
65	Effect of irradiance on the emission of short-lived halocarbons from three common tropical marine microalgae. <i>PeerJ</i> , 2019, 7, e6758.	0.9	7
66	Biological and environmental chemistry of DMS(P) and related compounds. <i>Aquatic Sciences</i> , 2007, 69, 289-291.	0.6	4
67	<i>In situ</i> automated imaging, using the Plankton Imager, captures temporal variations in mesozooplankton using the Celtic Sea as a case study. <i>Journal of Plankton Research</i> , 2021, 43, 300-313.	0.8	4
68	Identification of a periplasmic dimethylsulphoxide reductase in <i>Hyphomicrobium</i> EG grown under chemolithoheterotrophic conditions with dimethylsulphoxide as carbon source. <i>Archives of Microbiology</i> , 1994, 162, 148-150.	1.0	1
69	Special Issue of the 5th International Symposium on Biological and Environmental Chemistry of DMS(P) and Related Compounds, Goa, India, 19-22 October 2010. <i>Biogeochemistry</i> , 2012, 110, 1-4.	1.7	0