Michael J Allen

List of Publications by Year
in descending order

91 papers	4,527 citations	136950 32 h-index	110387 64 g-index
101 all docs	101 docs citations	101 times ranked	5734 citing authors

#	Article	IF	Citations
1	The minimum information about a genome sequence (MIGS) specification. Nature Biotechnology, 2008, 26, 541-547.	17.5	1,069
2	Giant virus with a remarkable complement of genes infects marine zooplankton. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19508-19513.	7.1	317
3	Complete Genome Sequence and Lytic Phase Transcription Profile of a Coccolithovirus. Science, 2005, 309, 1090-1092.	12.6	270
4	The â€œCheshire Catâ€•escape strategy of the coccolithophoreEmiliania huxleyiin response to viral infection. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15944-15949.	7.1	184
5	Horizontal gene transfer of an entire metabolic pathway between a eukaryotic alga and its DNA virus. Genome Research, 2009, 19, 1441-1449.	5.5	139
6	Long-read viral metagenomics captures abundant and microdiverse viral populations and their niche-defining genomic islands. PeerJ, 2019, 7, e6800.	2.0	109
7	The response of Escherichia coli to exposure to the biocide polyhexamethylene biguanide. Microbiology (United Kingdom), 2006, 152, 989-1000.	1.8	108
8	Towards the Industrial Production of Omega-3 Long Chain Polyunsaturated Fatty Acids from a Genetically Modified Diatom Phaeodactylum tricornutum. PLoS ONE, 2015, 10, e0144054.	2.5	99
9	Large scale cultivation of genetically modified microalgae: A new era for environmental risk assessment. Algal Research, 2017, 25, 90-100.	4.6	99
10	Host-hijacking and planktonic piracy: how phages command the microbial high seas. Virology Journal, 2019, 16, 15.	3.4	99
11	Organic waste as a sustainable feedstock for platform chemicals. Faraday Discussions, 2017, 202, 175-195.	3.2	92
12	Engineering the unicellular alga Phaeodactylum tricornutum for highâ€value plant triterpenoid production. Plant Biotechnology Journal, 2019, 17, 75-87.	8.3	82
13	The potential of low-cost ROV for use in deep-sea mineral, ore prospecting and monitoring. Ocean Engineering, 2018, 147, 333-339.	4.3	69
14	Assessing hydrothermal liquefaction for the production of bio-oil and enhanced metal recovery from microalgae cultivated on acid mine drainage. Fuel Processing Technology, 2016, 142, 219-227.	7.2	68
15	From small hosts come big viruses: the complete genome of a second Ostreococcus tauri virus, OtVâ€1. Environmental Microbiology, 2009, 11, 2821-2839.	3.8	64
16	Evolutionary History of the Coccolithoviridae. Molecular Biology and Evolution, 2006, 23, 86-92.	8.9	57
17	Identification and functional characterisation of genes encoding the omega-3 polyunsaturated fatty acid biosynthetic pathway from the coccolithophore Emiliania huxleyi. Phytochemistry, 2011, 72, 594-600.	2.9	57
18	Genome Sequence of Ostreococcus tauri Virus OtV-2 Throws Light on the Role of Picoeukaryote Niche Separation in the Ocean. Journal of Virology, 2011, 85, 4520-4529.	3.4	55

#	Article	IF	Citations
19	Hostâ€“virus shift of the sphingolipid pathway along an Emiliania huxleyi bloom: survival of the fattest. Environmental Microbiology, 2009, 11, 2840-2848.	3.8	54
20	Expression of a Novel Marine Viral Single-chain Serine Palmitoyltransferase and Construction of Yeast and Mammalian Single-chain Chimera. Journal of Biological Chemistry, 2006, 281, 39935-39942.	3.4	53
21	Cooperativity in the binding of the cationic biocide polyhexamethylene biguanide to nucleic acids. Biochemical and Biophysical Research Communications, 2004, 318, 397-404.	2.1	52
22	Co-production of bio-oil and propylene through the hydrothermal liquefaction of polyhydroxybutyrate producing cyanobacteria. Bioresource Technology, 2016, 207, 166-174.	9.6	52
23	The Microalgae Biorefinery: A Perspective on the Current Status and Future Opportunities Using Genetic Modification. Applied Sciences (Switzerland), 2019, 9, 4793.	2.5	52
24	Coproducts of algae and yeast-derived single cell oils: A critical review of their role in improving biorefinery sustainability. Bioresource Technology, 2020, 303, 122862.	9.6	51
25	Marine Prasinoviruses and Their Tiny Plankton Hosts: A Review. Viruses, 2017, 9, 43.	3.3	50
26	Locus-Specific Gene Expression Pattern Suggests a Unique Propagation Strategy for a Giant Algal Virus. Journal of Virology, 2006, 80, 7699-7705.	3.4	49
27	Use of microarrays to assess viral diversity: from genotype to phenotype. Environmental Microbiology, 2007, 9, 971-982.	3.8	42
28	Towards a marine biorefinery through the hydrothermal liquefaction of macroalgae native to the United Kingdom. Biomass and Bioenergy, 2017, 107, 244-253.	5.7	42
29	A synergistic use of microalgae and macroalgae for heavy metal bioremediation and bioenergy production through hydrothermal liquefaction. Sustainable Energy and Fuels, 2019, 3, 292-301.	4.9	41
30	Co-liquefaction of Macroalgae with Common Marine Plastic Pollutants. ACS Sustainable Chemistry and Engineering, 2019, 7, 6769-6781.	6.7	41
31	A Flavoprotein Monooxygenase that Catalyses a Baeyerâ€“Villiger Reaction and Thioether Oxidation Using NADH as the Nicotinamide Cofactor. ChemBioChem, 2012, 13, 872-878.	2.6	39
32	Improving electrocoagulation floatation for harvesting microalgae. Algal Research, 2019, 39, 101446.	4.6	37
33	Proteomic analysis of the EhV-86 virion. Proteome Science, 2008, 6, 11.	1.7	33
34	Genome comparison of two Coccolithoviruses. Virology Journal, 2006, 3, 15.	3.4	32
35	Lipid production through the single-step microwave hydrolysis of macroalgae using the oleaginous yeast Metschnikowia pulcherrima. Algal Research, 2019, 38, 101411.	4.6	31
36	Antiviral Potential of Algal Metabolitesâ€”A Comprehensive Review. Marine Drugs, 2021, 19, 94.	4.6	29

#	Article	IF	Citations
37	Coccolithoviruses: A Review of Cross-Kingdom Genomic Thievery and Metabolic Thuggery. Viruses, 2017, 9, 52.	3.3	27
38	Making light work of heavy metal contamination: the potential for coupling bioremediation with bioenergy production. Journal of Chemical Technology and Biotechnology, 2019, 94, 3064-3072.	3.2	27
39	Hydrothermal liquefaction of macroalgae for the production of renewable biofuels. Biofuels, Bioproducts and Biorefining, 2019, 13, 1483-1504.	3.7	27
40	Sustainability and life cycle assessment (LCA) of macroalgae-derived single cell oils. Journal of Cleaner Production, 2019, 232, 1272-1281.	9.3	27
41	Preliminary characterisation of repeat families in the genome of EhV-86, a giant algal virus that infects the marine microalga Emiliania huxleyi. Archives of Virology, 2006, 151, 525-535.	2.1	26
42	Potential for Chemistry in Multidisciplinary, Interdisciplinary, and Transdisciplinary Teaching Activities in Higher Education. Journal of Chemical Education, 2021, 98, 1124-1145.	2.3	26
43	Efficient dilution-to-extinction isolation of novel virusâ€“host model systems for fastidious heterotrophic bacteria. ISME Journal, 2021, 15, 1585-1598.	9.8	26
44	Draft Genome Sequence of Four Coccolithoviruses: Emiliania huxleyi Virus EhV-88, EhV-201, EhV-207, and EhV-208. Journal of Virology, 2012, 86, 2896-2897.	3.4	25
45	Aquatic virus diversity accessed through omic techniques: A route map to function. Current Opinion in Microbiology, 2008, 11, 226-232.	5.1	23
46	Unveiling the transcriptional features associated with coccolithovirus infection of natural Emiliania huxleyi blooms. FEMS Microbiology Ecology, 2011, 78, 555-564.	2.7	23
47	Transcriptional hostâ€“virus interaction ofEmiliania huxleyi(Haptophyceae) and EhV-86 deduced from combined analysis of expressed sequence tags and microarrays. European Journal of Phycology, 2010, 45, 1-12.	2.0	22
48	Standard Annotation of Environmental OMICS Data: Application to the Transcriptomics Domain. OMICS A Journal of Integrative Biology, 2006, 10, 172-178.	2.0	21
49	Draft genome sequence of the coccolithovirus EhV-84. Standards in Genomic Sciences, 2011, 5, 1-11.	1.5	20
50	Draft Genome Sequence of the Coccolithovirus Emiliania huxleyi Virus 202. Journal of Virology, 2012, 86, 2380-2381.	3.4	20
51	Permanent draft genome sequence of Vibrio tubiashii strain NCIMB 1337 (ATCC19106). Standards in Genomic Sciences, 2011, 4, 183-190.	1.5	19
52	Intragenus competition between coccolithoviruses: an insight on how a select few can come to dominate many. Environmental Microbiology, 2016, 18, 133-145.	3.8	18
53	Realizing the potential of marine biotechnology: CHALLENGES & OPPORTUNITIES. Industrial Biotechnology, 2009, 5, 77-83.	0.8	16
54	Genomic Sequence and Analysis of EhV-99B1, a New Coccolithovirus from the Norwegian Fjords. Intervirology, 2013, 56, 60-66.	2.8	16

#	Article	IF	Citations
55	Reduction in photosystem II efficiency during a virus-controlled Emiliania huxleyi bloom. Marine Ecology - Progress Series, 2014, 495, 65-76.	1.9	16
56	Draft Genome Sequence of the Coccolithovirus Emiliania huxleyi Virus 203. Journal of Virology, 2011, 85, 13468-13469.	3.4	15
57	Mutations of an NAD(P)Hâ€dependent flavoprotein monooxygenase that influence cofactor promiscuity and enantioselectivity. FEBS Open Bio, 2013, 3, 473-478.	2.3	15
58	Characterisation of algicidal bacterial exometabolites against the lipid-accumulating diatom Skeletonema sp.. Algal Research, 2016, 13, 1-6.	4.6	15
59	Effects of cell motility and morphology on the rheology of algae suspensions. Journal of Applied Phycology, 2017, 29, 1145-1157.	2.8	14
60	Assessing the Conversion of Various Nylon Polymers in the Hydrothermal Liquefaction of Macroalgae. Environments - MDPI, 2021, 8, 34.	3.3	14
61	The Bactericidal Effect of Dendritic Copper Microparticles, Contained in an Alginate Matrix, on Escherichia coli. PLoS ONE, 2014, 9, e96225.	2.5	13
62	Exploring nicotinamide cofactor promiscuity in NAD(P)H-dependent flavin containing monooxygenases (FMOs) using natural variation within the phosphate binding loop. Structure and activity of FMOs from Cellvibrio sp. BR and Pseudomonas stutzeri NF13. Journal of Molecular Catalysis B: Enzymatic, 2014, 109, 191-198.	1.8	13
63	Analysis of Seaweeds from South West England as a Biorefinery Feedstock. Applied Sciences (Switzerland), 2019, 9, 4456.	2.5	13
64	Biochemical and Elemental Composition of Pelagic Sargassum Biomass Harvested across the Caribbean. Phycology, 2022, 2, 204-215.	3.6	13
65	A Review of Current and New Optical Techniques for Coral Monitoring. Oceans, 2022, 3, 30-45.	1.3	12
66	Saltwater based fractionation and valorisation of macroalgae. Journal of Chemical Technology and Biotechnology, 2020, 95, 2098-2109.	3.2	11
67	The coccolithovirus microarray: an array of uses. Briefings in Functional Genomics & Proteomics, 2006, 5, 273-279.	3.8	10
68	Functional inferences of environmental coccolithovirus biodiversity. Virologica Sinica, 2013, 28, 291-302.	3.0	10
69	Dip in the gene pool: Metagenomic survey of natural coccolithovirus communities. Virology, 2014, 466-467, 129-137.	2.4	10
70	Swirl flow bioreactor containing dendritic copper-containing alginate beads: A potential rapid method for the eradication of Escherichia coli from waste water streams. Journal of Water Process Engineering, 2015, 5, 6-14.	5.6	10
71	Pilot study of an EST approach of the coccolithophorid Emiliania huxleyi during a virus infection. Gene, 2007, 406, 209-216.	2.2	9
72	Marine Biotechnology. , 2010, , 287-313.		8

#	Article	IF	Citations
73	Genomics in the Discovery and Monitoring of Marine Biodiversity. , 2010, , 1-32.		7
74	Characterisation of the coccolithovirus intein. Marine Genomics, 2011, 4, 1-7.	1.1	7
75	Coccolithophores: Functional Biodiversity, Enzymes and Bioprospecting. Marine Drugs, 2011, 9, 586-602.	4.6	7
76	Functional and structural characterisation of a viral cytochrome b5. FEBS Letters, 2013, 587, 3633-3639.	2.8	7
77	Hyperspectral imaging as a tool for assessing coral health utilising natural fluorescence. Journal of Spectral Imaging, 0, , .	0.0	7
78	Genome Sequence of Stenotrophomonas maltophilia PML168, Which Displays Baeyer-Villiger Monooxygenase Activity. Journal of Bacteriology, 2012, 194, 4753-4754.	2.2	6
79	Permanent draft genomes of four new coccolithoviruses: EhV-18, EhV-145, EhV-156 and EhV-164. Marine Genomics, 2014, 15, 7-8.	1.1	6
80	A Non-Destructive, Tuneable Method to Isolate Live Cells for High-Speed AFM Analysis. Microorganisms, 2021, 9, 680.	3.6	6
81	Swirl Flow Bioreactor coupled with Cu-alginate beads: A system for the eradication of Coliform and Escherichia coli from biological effluents. Scientific Reports, 2015, 5, 9461.	3.3	3
82	Feedstocks for Aviation Biofuels. , 2016, , 17-34.		3
83	An energy and resource efficient alkaline flocculation and sedimentation process for harvesting of Chromochloris zofingiensis biomass. Bioresource Technology Reports, 2020, 9, 100358.	2.7	3
84	An Alternative Method to Niskin Sampling for Molecular Analysis of the Marine Environment. Journal of Marine Science and Engineering, 2017, 5, 22.	2.6	2
85	Algal Viruses: The (Atomic) Shape of Things to Come. Viruses, 2018, 10, 490.	3.3	2
86	A Novel and Ubiquitous Marine Methylophage Provides Insights into Viral-Host Coevolution and Possible Host-Range Expansion in Streamlined Marine Heterotrophic Bacteria. Applied and Environmental Microbiology, 2022, 88, e0025522.	3.1	2
87	A Comparison between Ultraviolet Disinfection and Copper Alginate Beads within a Vortex Bioreactor for the Deactivation of Bacteria in Simulated Waste Streams with High Levels of Colour, Humic Acid and Suspended Solids. PLoS ONE, 2014, 9, e115688.	2.5	1
88	Novel Capsular Polysaccharide from Lobochlamys segnis. Polysaccharides, 2021, 2, 121-137.	4.8	1
89	Coccolithovirus. , 2011, , 1253-1257.		1
90	New Insights from the High-Resolution Monitoring of Microalgaeâ€“Virus Infection Dynamics. Viruses, 2022, 14, 466.	3.3	1

#	Article	IF	Citations
91	Development of Vortex Bioreactor Technology for Decentralised Water Treatment. , 2017, , .		0