

Andrew Allen

List of Publications by Year in descending order

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130
papers

15,856
citations

23500

58
h-index

18075

120
g-index

163
all docs

163
docs citations

163
times ranked

12594
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome of the Diatom <i>Thalassiosira Pseudonana</i> : Ecology, Evolution, and Metabolism. <i>Science</i> , 2004, 306, 79-86.	6.0	1,862
2	The <i>Phaeodactylum</i> genome reveals the evolutionary history of diatom genomes. <i>Nature</i> , 2008, 456, 239-244.	13.7	1,458
3	The <i>Ectocarpus</i> genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.	13.7	774
4	Green Evolution and Dynamic Adaptations Revealed by Genomes of the Marine Picoeukaryotes <i>Micromonas</i> . <i>Science</i> , 2009, 324, 268-272.	6.0	591
5	Comparative Genomics of Plant-Associated <i>Pseudomonas</i> spp.: Insights into Diversity and Inheritance of Traits Involved in Multitrophic Interactions. <i>PLoS Genetics</i> , 2012, 8, e1002784.	1.5	578
6	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. <i>Nature</i> , 2011, 473, 203-207.	13.7	453
7	Pan genome of the phytoplankton <i>Emiliania</i> underpins its global distribution. <i>Nature</i> , 2013, 499, 209-213.	13.7	448
8	Whole-cell response of the pennate diatom <i>Phaeodactylum tricornutum</i> to iron starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10438-10443.	3.3	414
9	Efficiency of the CO ₂ -concentrating mechanism of diatoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3830-3837.	3.3	361
10	Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017, 541, 536-540.	13.7	332
11	Molecular toolbox for studying diatom biology in <i>Phaeodactylum tricornutum</i> . <i>Gene</i> , 2007, 406, 23-35.	1.0	293
12	Comparative day/night metatranscriptomic analysis of microbial communities in the North Pacific subtropical gyre. <i>Environmental Microbiology</i> , 2009, 11, 1358-1375.	1.8	285
13	Comparative metatranscriptomics identifies molecular bases for the physiological responses of phytoplankton to varying iron availability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E317-25.	3.3	283
14	Genomic and functional adaptation in surface ocean planktonic prokaryotes. <i>Nature</i> , 2010, 468, 60-66.	13.7	280
15	Targeted metagenomics and ecology of globally important uncultured eukaryotic phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14679-14684.	3.3	257
16	Designer diatom episomes delivered by bacterial conjugation. <i>Nature Communications</i> , 2015, 6, 6925.	5.8	249
17	Global biogeography of SAR11 marine bacteria. <i>Molecular Systems Biology</i> , 2012, 8, 595.	3.2	215
18	Copper-dependent iron transport in coastal and oceanic diatoms. <i>Limnology and Oceanography</i> , 2006, 51, 1729-1743.	1.6	205

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19	Phytoplanktonâ€“bacterial interactions mediate micronutrient colimitation at the coastal Antarctic sea ice edge. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9938-9943.	3.3	202
20	Candidate phylum TM6 genome recovered from a hospital sink biofilm provides genomic insights into this uncultivated phylum. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2390-9.	3.3	192
21	Oceanographic and Biogeochemical Insights from Diatom Genomes. Annual Review of Marine Science, 2010, 2, 333-365.	5.1	189
22	Functional Tradeoffs Underpin Salinity-Driven Divergence in Microbial Community Composition. PLoS ONE, 2014, 9, e89549.	1.1	184
23	Contrasting genomic properties of free-living and particle-attached microbial assemblages within a coastal ecosystem. Frontiers in Microbiology, 2013, 4, 120.	1.5	176
24	Probing the evolution, ecology and physiology of marine protists using transcriptomics. Nature Reviews Microbiology, 2017, 15, 6-20.	13.6	176
25	SEQUENCE ANALYSIS AND TRANSCRIPTIONAL REGULATION OF IRON ACQUISITION GENES IN TWO MARINE DIATOMS¹. Journal of Phycology, 2007, 43, 715-729.	1.0	156
26	Prospects in diatom research. Current Opinion in Biotechnology, 2005, 16, 180-186.	3.3	154
27	Localization of putative carbonic anhydrases in two marine diatoms, <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> . Photosynthesis Research, 2011, 109, 205-221.	1.6	146
28	Integrative analysis of large scale transcriptome data draws a comprehensive landscape of <i>Phaeodactylum tricornutum</i> genome and evolutionary origin of diatoms. Scientific Reports, 2018, 8, 4834.	1.6	131
29	Transcriptional Orchestration of the Global Cellular Response of a Model Pennate Diatom to Diel Light Cycling under Iron Limitation. PLoS Genetics, 2016, 12, e1006490.	1.5	129
30	Inactivation of <i>Phaeodactylum tricornutum</i> urease gene using transcription activatorâ€“like effector nucleaseâ€“based targeted mutagenesis. Plant Biotechnology Journal, 2015, 13, 460-470.	4.1	128
31	Biosynthesis of the neurotoxin domoic acid in a bloom-forming diatom. Science, 2018, 361, 1356-1358.	6.0	124
32	Influence of nutrients and currents on the genomic composition of microbes across an upwelling mosaic. ISME Journal, 2012, 6, 1403-1414.	4.4	120
33	Whole transcriptome analysis of the silicon response of the diatom <i>Thalassiosira pseudonana</i> . BMC Genomics, 2012, 13, 499.	1.2	117
34	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. Nature Communications, 2019, 10, 4552.	5.8	116
35	An ecological and evolutionary context for integrated nitrogen metabolism and related signaling pathways in marine diatoms. Current Opinion in Plant Biology, 2006, 9, 264-273.	3.5	114
36	Insights into the role of DNA methylation in diatoms by genome-wide profiling in <i>Phaeodactylum tricornutum</i> . Nature Communications, 2013, 4, 2091.	5.8	113

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37	Potential impact of stress activated retrotransposons on genome evolution in a marine diatom. BMC Genomics, 2009, 10, 624.	1.2	112
38	Diversity and Detection of Nitrate Assimilation Genes in Marine Bacteria. Applied and Environmental Microbiology, 2001, 67, 5343-5348.	1.4	110
39	Genomes and gene expression across light and productivity gradients in eastern subtropical Pacific microbial communities. ISME Journal, 2015, 9, 1076-1092.	4.4	108
40	An integrative analysis of post-translational histone modifications in the marine diatom <i>Phaeodactylum tricornutum</i> . Genome Biology, 2015, 16, 102.	3.8	107
41	Carbonate-sensitive phytoferritin controls high-affinity iron uptake in diatoms. Nature, 2018, 555, 534-537.	13.7	106
42	Influence of cobalamin scarcity on diatom molecular physiology and identification of a cobalamin acquisition protein. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1762-71.	3.3	104
43	Genome-Scale Model Reveals Metabolic Basis of Biomass Partitioning in a Model Diatom. PLoS ONE, 2016, 11, e0155038.	1.1	104
44	Nitrate Reductase Knockout Uncouples Nitrate Transport from Nitrate Assimilation and Drives Repartitioning of Carbon Flux in a Model Pennate Diatom. Plant Cell, 2017, 29, 2047-2070.	3.1	102
45	Digital expression profiling of novel diatom transcripts provides insight into their biological functions. Genome Biology, 2010, 11, R85.	13.9	97
46	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. Nature Methods, 2020, 17, 481-494.	9.0	97
47	A Novel Protein, Ubiquitous in Marine Phytoplankton, Concentrates Iron at the Cell Surface and Facilitates Uptake. Current Biology, 2015, 25, 364-371.	1.8	90
48	IDENTIFICATION AND COMPARATIVE GENOMIC ANALYSIS OF SIGNALING AND REGULATORY COMPONENTS IN THE DIATOM <i>THALASSIOSIRA PSEUDONANA</i> . Journal of Phycology, 2007, 43, 585-604.	1.0	87
49	Genome and methylome of the oleaginous diatom <i>Cyclotella cryptica</i> reveal genetic flexibility toward a high lipid phenotype. Biotechnology for Biofuels, 2016, 9, 258.	6.2	87
50	Grazing of phytoplankton by microzooplankton in the Barents Sea during early summer. Journal of Marine Systems, 2002, 38, 109-123.	0.9	83
51	Transcript level coordination of carbon pathways during silicon starvation-induced lipid accumulation in the diatom <i>Thalassiosira pseudonana</i> . New Phytologist, 2016, 210, 890-904.	3.5	82
52	The Baltic Sea Virome: Diversity and Transcriptional Activity of DNA and RNA Viruses. MSystems, 2017, 2, .	1.7	80
53	Influence of vitamin B auxotrophy on nitrogen metabolism in eukaryotic phytoplankton. Frontiers in Microbiology, 2012, 3, 375.	1.5	77
54	Vitamin B1 ecophysiology of marine picoeukaryotic algae: Strain-specific differences and a new role for bacteria in vitamin cycling. Limnology and Oceanography, 2015, 60, 215-228.	1.6	76

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55	Refinement of the Diatom Episome Maintenance Sequence and Improvement of Conjugation-Based DNA Delivery Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 65.	2.0	74
56	Importance of heterotrophic bacterial assimilation of ammonium and nitrate in the Barents Sea during summer. <i>Journal of Marine Systems</i> , 2002, 38, 93-108.	0.9	69
57	Evolution and Functional Diversification of Fructose Bisphosphate Aldolase Genes in Photosynthetic Marine Diatoms. <i>Molecular Biology and Evolution</i> , 2012, 29, 367-379.	3.5	68
58	Silicon limitation facilitates virus infection and mortality of marine diatoms. <i>Nature Microbiology</i> , 2019, 4, 1790-1797.	5.9	64
59	Methionine synthase interreplacement in diatom cultures and communities: Implications for the persistence of B ₁₂ use by eukaryotic phytoplankton. <i>Limnology and Oceanography</i> , 2013, 58, 1431-1450.	1.6	63
60	Diatom centromeres suggest a mechanism for nuclear DNA acquisition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6015-E6024.	3.3	62
61	Nutrient Stoichiometry Shapes Microbial Community Structure in an Evaporitic Shallow Pond. <i>Frontiers in Microbiology</i> , 2017, 8, 949.	1.5	62
62	Diel transcriptional response of a California Current plankton microbiome to light, low iron, and enduring viral infection. <i>ISME Journal</i> , 2019, 13, 2817-2833.	4.4	61
63	CHARACTERIZATION OF DIATOM (BACILLARIOPHYCEAE) NITRATE REDUCTASE GENES AND THEIR DETECTION IN MARINE PHYTOPLANKTON COMMUNITIES. <i>Journal of Phycology</i> , 2005, 41, 95-104.	1.0	58
64	Assembly of eukaryotic algal chromosomes in yeast. <i>Journal of Biological Engineering</i> , 2013, 7, 30.	2.0	57
65	Dissection of Microbial Community Functions during a Cyanobacterial Bloom in the Baltic Sea via Metatranscriptomics. <i>Frontiers in Marine Science</i> , 0, 5, .	1.2	57
66	Genetic Manipulation of Competition for Nitrate between Heterotrophic Bacteria and Diatoms. <i>Frontiers in Microbiology</i> , 2016, 7, 880.	1.5	55
67	Cross-compartment metabolic coupling enables flexible photoprotective mechanisms in the diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2019, 222, 1364-1379.	3.5	54
68	Metagenomic Analysis of the Indian Ocean Picocyanobacterial Community: Structure, Potential Function and Evolution. <i>PLoS ONE</i> , 2016, 11, e0155757.	1.1	54
69	Manganese and iron deficiency in Southern Ocean <i>Phaeocystis antarctica</i> populations revealed through taxon-specific protein indicators. <i>Nature Communications</i> , 2019, 10, 3582.	5.8	53
70	Transcriptomic analysis of metabolic function in the giant kelp, <i>Macrocystis pyrifera</i> , across depth and season. <i>New Phytologist</i> , 2013, 198, 398-407.	3.5	51
71	Reduction-dependent siderophore assimilation in a model pennate diatom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23609-23617.	3.3	51
72	Downregulation of mitochondrial alternative oxidase affects chloroplast function, redox status and stress response in a marine diatom. <i>New Phytologist</i> , 2019, 221, 1303-1316.	3.5	51

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73	Massive difference in synonymous substitution rates among mitochondrial, plastid, and nuclear genes of <i>Phaeocystis</i> algae. <i>Molecular Phylogenetics and Evolution</i> , 2014, 71, 36-40.	1.2	47
74	Pervasive iron limitation at subsurface chlorophyll maxima of the California Current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13300-13305.	3.3	46
75	Dinoflagellates alter their carbon and nutrient metabolic strategies across environmental gradients in the central Pacific Ocean. <i>Nature Microbiology</i> , 2021, 6, 173-186.	5.9	45
76	Influence of nitrate availability on the distribution and abundance of heterotrophic bacterial nitrate assimilation genes in the Barents Sea during summer. <i>Aquatic Microbial Ecology</i> , 2005, 39, 247-255.	0.9	45
77	Distribution of bacterial biomass and activity in the marginal ice zone of the central Barents Sea during summer. <i>Journal of Marine Systems</i> , 2002, 38, 77-91.	0.9	44
78	Colony formation in <i>Phaeocystis antarctica</i> : connecting molecular mechanisms with iron biogeochemistry. <i>Biogeosciences</i> , 2018, 15, 4923-4942.	1.3	44
79	Integrated Regulatory and Metabolic Networks of the Marine Diatom <i>Phaeodactylum tricornutum</i> Predict the Response to Rising CO ₂ Levels. <i>MSystems</i> , 2017, 2, .	1.7	40
80	Diversity and Expression of Bacterial Metacaspases in an Aquatic Ecosystem. <i>Frontiers in Microbiology</i> , 2016, 7, 1043.	1.5	37
81	Multiplexed Knockouts in the Model Diatom <i>Phaeodactylum</i> by Episomal Delivery of a Selectable Cas9. <i>Frontiers in Microbiology</i> , 2020, 11, 5.	1.5	36
82	Characterization of the Small RNA Transcriptome of the Diatom, <i>Thalassiosira pseudonana</i> . <i>PLoS ONE</i> , 2011, 6, e22870.	1.1	36
83	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2022, 19, 134-136.	9.0	35
84	Dissolved and particulate trace metal micronutrients under the McMurdo Sound seasonal sea ice: basal sea ice communities as a capacitor for iron. <i>Frontiers in Chemistry</i> , 2013, 1, 25.	1.8	33
85	Using community metabolomics as a new approach to discriminate marine microbial particulate organic matter in the western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 421-433.	1.5	27
86	Interactive effects of temperature, CO ₂ and nitrogen source on a coastal California diatom assemblage. <i>Journal of Plankton Research</i> , 2018, 40, 151-164.	0.8	26
87	Mitochondrial fatty acid β -oxidation is required for storage lipid catabolism in a marine diatom. <i>New Phytologist</i> , 2020, 228, 946-958.	3.5	25
88	Comparative transcriptomics of toxin synthesis genes between the non-toxin producing dinoflagellate <i>Cochlodinium polykrikoides</i> and toxigenic <i>Alexandrium pacificum</i> . <i>Harmful Algae</i> , 2020, 93, 101777.	2.2	24
89	Contrasting effects of copper limitation on the photosynthetic apparatus in two strains of the open ocean diatom <i>Thalassiosira oceanica</i> . <i>PLoS ONE</i> , 2017, 12, e0181753.	1.1	24
90	Leveraging metabolomics for functional investigations in sequenced marine diatoms. <i>Trends in Plant Science</i> , 2012, 17, 395-403.	4.3	23

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91	The voyage of the microbial eukaryote. <i>Current Opinion in Microbiology</i> , 2010, 13, 652-660.	2.3	19
92	The Ectocarpus Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.	0.5	18
93	Proximity proteomics in a marine diatom reveals a putative cell surface-to-chloroplast iron trafficking pathway. <i>ELife</i> , 2021, 10, .	2.8	18
94	Intact polar diacylglycerol biomarker lipids isolated from suspended particulate organic matter accumulating in an ultraoligotrophic water column. <i>Organic Geochemistry</i> , 2016, 100, 29-41.	0.9	17
95	Molecular underpinnings and biogeochemical consequences of enhanced diatom growth in a warming Southern Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17
96	Cellular costs underpin micronutrient limitation in phytoplankton. <i>Science Advances</i> , 2021, 7, .	4.7	17
97	Patterns of Transcript Abundance of Eukaryotic Biogeochemically-Relevant Genes in the Amazon River Plume. <i>PLoS ONE</i> , 2016, 11, e0160929.	1.1	17
98	Lineage specific gene family enrichment at the microscale in marine systems. <i>Current Opinion in Microbiology</i> , 2013, 16, 605-617.	2.3	16
99	Domoic acid biosynthesis in the red alga <i>Chondria armata</i> suggests a complex evolutionary history for toxin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	16
100	Sierra Nevada mountain lake microbial communities are structured by temperature, resources and geographic location. <i>Molecular Ecology</i> , 2020, 29, 2080-2093.	2.0	14
101	Influence of nutrient supply on plankton microbiome biodiversity and distribution in a coastal upwelling region. <i>Nature Communications</i> , 2022, 13, 2448.	5.8	14
102	BEYOND SEQUENCE HOMOLOGY: REDUNDANT AMMONIUM TRANSPORTERS IN A MARINE DIATOM ARE NOT FUNCTIONALLY EQUIVALENT. <i>Journal of Phycology</i> , 2005, 41, 4-6.	1.0	13
103	Euphotic zone nitrification in the California Current Ecosystem. <i>Limnology and Oceanography</i> , 2020, 65, 790-806.	1.6	13
104	Pathogenic <i>Vibrio</i> Species Are Associated with Distinct Environmental Niches and Planktonic Taxa in Southern California (USA) Aquatic Microbiomes. <i>MSystems</i> , 2021, 6, e0057121.	1.7	13
105	Multiplexed CRISPR/Cas9 editing of the long-chain acyl-CoA synthetase family in the diatom <i>Phaeodactylum tricornutum</i> reveals that mitochondrial ptACSL3 is involved in the synthesis of storage lipids. <i>New Phytologist</i> , 2022, 233, 1797-1812.	3.5	13
106	Revealing ocean-scale biochemical structure with a deep-diving vertical profiling autonomous vehicle. <i>Science Robotics</i> , 2020, 5, .	9.9	12
107	Diploid genomic architecture of <i>Nitzschia inconspicua</i> , an elite biomass production diatom. <i>Scientific Reports</i> , 2021, 11, 15592.	1.6	12
108	Impact of temperature, CO ₂ , and iron on nutrient uptake by a late-season microbial community from the Ross Sea, Antarctica. <i>Aquatic Microbial Ecology</i> , 2018, 82, 145-159.	0.9	12

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109	Simultaneous quantum yield measurements of carbon uptake and oxygen evolution in microalgal cultures. <i>PLoS ONE</i> , 2018, 13, e0199125.	1.1	11
110	Hydrothermal trace metal release and microbial metabolism in the northeastern Lau Basin of the South Pacific Ocean. <i>Biogeosciences</i> , 2021, 18, 5397-5422.	1.3	11
111	Microbial communities associated with sinking particles across an environmental gradient from coastal upwelling to the oligotrophic ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2022, 179, 103668.	0.6	11
112	DEFINING THE MOLECULAR BASIS FOR ENERGY BALANCE IN MARINE DIATOMS UNDER FLUCTUATING ENVIRONMENTAL CONDITIONS. <i>Journal of Phycology</i> , 2005, 41, 1073-1076.	1.0	10
113	Adaptive responses of marine diatoms to zinc scarcity and ecological implications. <i>Nature Communications</i> , 2022, 13, 1995.	5.8	10
114	Common origin of ornithine-urea cycle in opisthokonts and stramenopiles. <i>Scientific Reports</i> , 2020, 10, 16687.	1.6	9
115	Genomes of uncultured eukaryotes: sorting FACS from fiction. <i>Genome Biology</i> , 2011, 12, 117.	13.9	8
116	Relating sinking and suspended microbial communities in the California Current Ecosystem: digestion resistance and the contributions of phytoplankton taxa to export. <i>Environmental Microbiology</i> , 2021, 23, 6734-6748.	1.8	8
117	Proteomic analysis of metabolic pathways supports chloroplast-mitochondria cross-talk in a Cu-limited diatom. <i>Plant Direct</i> , 2022, 6, e376.	0.8	6
118	Stoichiometric N:P Ratios, Temperature, and Iron Impact Carbon and Nitrogen Uptake by Ross Sea Microbial Communities. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2955-2975.	1.3	5
119	Molecular Approaches for an Operational Marine Biodiversity Observation Network. , 2019, , 613-631.		5
120	The interaction of physical and biological factors drives phytoplankton spatial distribution in the northern California Current. <i>Limnology and Oceanography</i> , 2020, 65, 1974-1989.	1.6	5
121	Proteomic traits vary across taxa in a coastal Antarctic phytoplankton bloom. <i>ISME Journal</i> , 2022, 16, 569-579.	4.4	5
122	iTree: A high-throughput phylogenomic pipeline. , 2010, , .		4
123	Differential media effects on male body satisfaction and mood. <i>Australian Journal of Psychology</i> , 2020, 72, 3-10.	1.4	4
124	The Importance of Protein Phosphorylation for Signaling and Metabolism in Response to Diel Light Cycling and Nutrient Availability in a Marine Diatom. <i>Biology</i> , 2020, 9, 155.	1.3	4
125	Interactive effects of elevated temperature and CO ₂ on nitrate, urea, and dissolved inorganic carbon uptake by a coastal California, USA, microbial community. <i>Marine Ecology - Progress Series</i> , 2017, 577, 49-65.	0.9	4
126	Blowin™ in the wind: Dispersal, structure, and metacommunity dynamics of aeolian diatoms in the McMurdo Sound region, Antarctica. <i>Journal of Phycology</i> , 2022, 58, 36-54.	1.0	4

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127	Genetic Engineering in Marine Diatoms: Current Practices and Emerging Technologies. , 2022, , 743-773.		2
128	Extended Playing Techniques on an Augmented Virtual Percussion Instrument. Computer Music Journal, 2018, 42, 8-21.	0.3	1
129	Transcriptomic and metatranscriptomic approaches in phytoplankton: insights and advances. , 2022, , 435-485.		1
130	Successful Diatom Transcription Factor Synthesis and Downstream Cloning Using the BioXpâ,,ç 3200 System. BioTechniques, 2015, 59, 46-47.	0.8	0