Thomas A Richards

List of Publications by Year
in descending order

105 papers	9,921 citations	41344 49 h-index	39675 94 g-index
114 all docs	114 docs citations	114 times ranked	10882 citing authors

#	Article	IF	Citations
1	Sequence locally, think globally: The Darwin Tree of Life Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	120
2	Systematic evaluation of horizontal gene transfer between eukaryotes and viruses. Nature Microbiology, 2022, 7, 327-336.	13.3	87
3	Nutrient and salt depletion synergistically boosts glucose metabolism in individual Escherichia coli cells. Communications Biology, 2022, 5, 385.	4.4	11
4	A light-sensing system in the common ancestor of the fungi. Current Biology, 2022, 32, 3146-3153.e3.	3.9	13
5	Exaggerated trans-membrane charge of ammonium transporters in nutrient-poor marine environments. Open Biology, 2022, 12, .	3.6	1
6	A novel duplex qPCR assay for stepwise detection of multiple Perkinsea protistan infections of amphibian tissues. Royal Society Open Science, 2021, 8, 202150.	2.4	3
7	Characterization of the RNA-interference pathway as a tool for reverse genetic analysis in the nascent phototrophic endosymbiosis, Paramecium bursaria. Royal Society Open Science, 2021, 8, 210140.	2.4	6
8	A functional bacteria-derived restriction modification system in the mitochondrion of a heterotrophic protist. PLoS Biology, 2021, 19, e3001126.	5.6	6
9	Single-cell genomics unveils a canonical origin of the diverse mitochondrial genomes of euglenozoans. BMC Biology, 2021, 19, 103.	3.8	10
10	Expanded host and geographic range of tadpole associations with the Severe Perkinsea Infection group. Biology Letters, 2021, 17, 20210166.	2.3	8
11	Emergent RNAâ€“RNA interactions can promote stability in a facultative phototrophic endosymbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
12	A cellâ€“cell atlas approach for understanding symbiotic interactions between microbes. Current Opinion in Microbiology, 2021, 64, 47-59.	5.1	4
13	Unexpected mitochondrial genome diversity revealed by targeted single-cell genomics of heterotrophic flagellated protists. Nature Microbiology, 2020, 5, 154-165.	13.3	44
14	Single-Cell Transcriptomics of Abedinium Reveals a New Early-Branching Dinoflagellate Lineage. Genome Biology and Evolution, 2020, 12, 2417-2428.	2.5	11
15	Controlled sampling of ribosomally active protistan diversity in sediment-surface layers identifies putative players in the marine carbon sink. ISME Journal, 2020, 14, 984-998.	9.8	19
16	Diverse alveolate infections of tadpoles, a new threat to frogs?. PLoS Pathogens, 2020, 16, e1008107.	4.7	9
17	Chytrid fungi distribution and co-occurrence with diatoms correlate with sea ice melt in the Arctic Ocean. Communications Biology, 2020, 3, 183.	4.4	29
18	Phylogeny, Evidence for a Cryptic Plastid, and Distribution of Chytriodinium Parasites (Dinophyceae) Infecting Copepods. Journal of Eukaryotic Microbiology, 2019, 66, 574-581.	1.7	2

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19	A Revised Taxonomy of Diplonemids Including the Eupelagonemidae n. fam. and a Type Species, Eupelagonema oceanica n. gen. & sp.. Journal of Eukaryotic Microbiology, 2019, 66, 519-524.	1.7	17
20	Single cell ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190076.	4.0	11
21	A single-cell genome reveals diplonemid-like ancestry of kinetoplastid mitochondrial gene structure. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190100.	4.0	13
22	The Ecology and Evolution of Pangenomes. Current Biology, 2019, 29, R1094-R1103.	3.9	206
23	Coral symbiosis is a three-player game. Nature, 2019, 568, 41-42.	27.8	4
24	A distinct lineage of giant viruses brings a rhodopsin photosystem to unicellular marine predators. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20574-20583.	7.1	120
25	Environment-dependent fitness gains can be driven by horizontal gene transfer of transporter-encoding genes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5613-5622.	7.1	37
26	Assessing the Diversity and Distribution of Apicomplexans in Host and Free-Living Environments Using High-Throughput Amplicon Data and a Phylogenetically Informed Reference Framework. Frontiers in Microbiology, 2019, 10, 2373.	3.5	33
27	Intracellular Infection of Diverse Diatoms by an Evolutionary Distinct Relative of the Fungi. Current Biology, 2019, 29, 4093-4101.e4.	3.9	24
28	Symbiosis: Wolf Lichens Harbour a Choir of Fungi. Current Biology, 2019, 29, R88-R90.	3.9	3
29	Evolutionary conservation of a core fungal phosphate homeostasis pathway coupled to development in Blastocladiella emersonii. Fungal Genetics and Biology, 2018, 115, 20-32.	2.1	13
30	Ancestral Function and Diversification of a Horizontally Acquired Oomycete Carboxylic Acid Transporter. Molecular Biology and Evolution, 2018, 35, 1887-1900.	8.9	24
31	Comparative genomic analysis of the â€˜pseudofungusâ€™Hyphochytrium catenoides. Open Biology, 2018, 8, 170184.	3.6	31
32	Predicted microbial secretomes and their target substrates in marine sediment. Nature Microbiology, 2018, 3, 32-37.	13.3	85
33	Single cell genomics of uncultured marine alveolates shows paraphyly of basal dinoflagellates. ISME Journal, 2018, 12, 304-308.	9.8	40
34	Identifying protist consumers of photosynthetic picoeukaryotes in the surface ocean using stable isotope probing. Environmental Microbiology, 2018, 20, 815-827.	3.8	51
35	Osmotrophy. Current Biology, 2018, 28, R1179-R1180.	3.9	29
36	Specialized proteomic responses and an ancient photoprotection mechanism sustain marine green algal growth during phosphate limitation. Nature Microbiology, 2018, 3, 781-790.	13.3	26

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37	PDZD8 is not the â€˜functional orthologâ€™ of Mmm1, it is a paralog. F1000Research, 2018, 7, 1088.	1.6	23
38	Host-derived viral transporter protein for nitrogen uptake in infected marine phytoplankton. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7489-E7498.	7.1	74
39	What Defines the â€œKingdomâ€•Fungi?. Microbiology Spectrum, 2017, 5, .	3.0	59
40	What Defines the â€œKingdomâ€•Fungi?. , 2017, , 57-77.		6
41	Dynamics of genomic innovation in the unicellular ancestry of animals. ELife, 2017, 6, .	6.0	121
42	Pushing the envelope. ELife, 2017, 6, .	6.0	0
43	Phylogenetic diversity and biogeography of the Mamiellophyceae lineage of eukaryotic phytoplankton across the oceans. Environmental Microbiology Reports, 2016, 8, 461-469.	2.4	56
44	<i>Nematopsis temporariae</i> (Gregarinasina, Apicomplexa, Alveolata) is an intracellular infectious agent of tadpole livers. Environmental Microbiology Reports, 2016, 8, 675-679.	2.4	18
45	A tale of two tardigrades. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4892-4894.	7.1	26
46	A fungal pathogen secretes plant alkalinizing peptides to increase infection. Nature Microbiology, 2016, 1, 16043.	13.3	249
47	Morphological Identification and Single-Cell Genomics of Marine Diplonemids. Current Biology, 2016, 26, 3053-3059.	3.9	83
48	A role for fungi as parasites in the black box of marine trophic interactions. Environmental Microbiology Reports, 2016, 8, 429-430.	2.4	1
49	Benthic protists: the under-charted majority. FEMS Microbiology Ecology, 2016, 92, fiw120.	2.7	94
50	Diverse, uncultivated bacteria and archaea underlying the cycling of dissolved protein in the ocean. ISME Journal, 2016, 10, 2158-2173.	9.8	177
51	Molecular diversity and distribution of marine fungi across 130 European environmental samples. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152243.	2.6	177
52	Cellular maintenance processes that potentially underpin the survival of subseafloor fungi over geological timescales. Estuarine, Coastal and Shelf Science, 2015, 164, A1-A9.	2.1	17
53	å¾®ç”Ÿç‰©ã®ã€Œçœ¼ã€ã•ã©ã†ã„ã£ã¦ã§ããŸã®ã‹. Nature Digest, 2015, 12, 31-32.	0.0	0
54	Marine protist diversity in <scp>E</scp>uropean coastal waters and sediments as revealed by highâ€throughput sequencing. Environmental Microbiology, 2015, 17, 4035-4049.	3.8	384

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55	Cryptic infection of a broad taxonomic and geographic diversity of tadpoles by Perkinsea protists. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4743-51.	7.1	68
56	Diversity and distribution of unicellular opisthokonts along the <scp>E</scp>uropean coast analysed using highâ€throughput sequencing. Environmental Microbiology, 2015, 17, 3195-3207.	3.8	52
57	How to build a microbial eye. Nature, 2015, 523, 166-167.	27.8	9
58	The Role of Horizontal Gene Transfer in the Evolution of the Oomycetes. PLoS Pathogens, 2015, 11, e1004805.	4.7	75
59	The Secreted Proteins of Achlya hypogyna and Thraustotheca clavata Identify the Ancestral Oomycete Secretome and Reveal Gene Acquisitions by Horizontal Gene Transfer. Genome Biology and Evolution, 2015, 7, 120-135.	2.5	34
60	A Cyclic GMP-Dependent K ⁺ Channel in the Blastocladiomycete Fungus Blastocladiella emersonii. Eukaryotic Cell, 2015, 14, 958-963.	3.4	19
61	Evolution and Classification of Myosins, a Paneukaryotic Whole-Genome Approach. Genome Biology and Evolution, 2014, 6, 290-305.	2.5	121
62	Diverse molecular signatures for ribosomally â€˜activeâ€™ Perkinsea in marine sediments. BMC Microbiology, 2014, 14, 110.	3.3	54
63	Patterns of Rare and Abundant Marine Microbial Eukaryotes. Current Biology, 2014, 24, 813-821.	3.9	450
64	Complex Patterns of Gene Fission in the Eukaryotic Folate Biosynthesis Pathway. Genome Biology and Evolution, 2014, 6, 2709-2720.	2.5	12
65	Horizontal Gene Transfer in Eukaryotic Plant Pathogens. Annual Review of Phytopathology, 2014, 52, 583-614.	7.8	126
66	A Rhodopsin-Guanylyl Cyclase Gene Fusion Functions in Visual Perception in a Fungus. Current Biology, 2014, 24, 1234-1240.	3.9	134
67	Organelle Evolution: A Mosaic of â€˜Mitochondrialâ€™ Functions. Current Biology, 2014, 24, R518-R520.	3.9	30
68	Pan genome of the phytoplankton Emiliania underpins its global distribution. Nature, 2013, 499, 209-213.	27.8	448
69	Horizontal gene transfer in osmotrophs: playing with public goods. Nature Reviews Microbiology, 2013, 11, 720-727.	28.6	85
70	Marine Fungi: Their Ecology and Molecular Diversity. Annual Review of Marine Science, 2012, 4, 495-522.	11.6	366
71	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. Nature, 2012, 492, 59-65.	27.8	377
72	Genome-scale comparative analysis of gene fusions, gene fissions, and the fungal tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21402-21407.	7.1	47

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73	Evolutionary Diversification of Eukaryotic DNA Replication Machinery. Sub-Cellular Biochemistry, 2012, 62, 19-35.	2.4	31
74	3 Environmental DNA Analysis and the Expansion of the Fungal Tree of Life. , 2011, , 37-54.		8
75	Three reasons to re-evaluate fungal diversity â€˜on Earth and in the oceanâ€™. Fungal Biology Reviews, 2011, 25, 159-164.	4.7	88
76	Cell Evolution: Gene Transfer Agents and the Origin of Mitochondria. Current Biology, 2011, 21, R112-R114.	3.9	34
77	Genome Evolution: Horizontal Movements in the Fungi. Current Biology, 2011, 21, R166-R168.	3.9	45
78	Discovery of novel intermediate forms redefines the fungal tree of life. Nature, 2011, 474, 200-203.	27.8	393
79	Gene transfer into the fungi. Fungal Biology Reviews, 2011, 25, 98-110.	4.7	127
80	Horizontal gene transfer facilitated the evolution of plant parasitic mechanisms in the oomycetes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15258-15263.	7.1	225
81	Newly identified and diverse plastid-bearing branch on the eukaryotic tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1496-1500.	7.1	92
82	Validation and justification of the phylum name Cryptomycota phyl. nov.. IMA Fungus, 2011, 2, 173-175.	3.8	81
83	Patterns of kinesin evolution reveal a complex ancestral eukaryote with a multifunctional cytoskeleton. BMC Evolutionary Biology, 2010, 10, 110.	3.2	138
84	Gene transfer: anything goes in plant mitochondria. BMC Biology, 2010, 8, 147.	3.8	32
85	Multiple marker parallel tag environmental DNA sequencing reveals a highly complex eukaryotic community in marine anoxic water. Molecular Ecology, 2010, 19, 21-31.	3.9	1,229
86	Phylogenomic Analysis Demonstrates a Pattern of Rare and Ancient Horizontal Gene Transfer between Plants and Fungi. Plant Cell, 2009, 21, 1897-1911.	6.6	162
87	Ancient animal ancestry for nuclear myosin. Journal of Cell Science, 2009, 122, 636-643.	2.0	27
88	Ancient diversification of eukaryotic MCM DNA replication proteins. BMC Evolutionary Biology, 2009, 9, 60.	3.2	68
89	A Molecular Perspective on Ecological Differentiation and Biogeography of Cyclotrichiid Ciliates. Journal of Eukaryotic Microbiology, 2009, 56, 559-567.	1.7	12
90	REFGEN and TREENAMER: Automated Sequence Data Handling for Phylogenetic Analysis in the Genomic Era. Evolutionary Bioinformatics, 2009, 5, EBO.S2331.	1.2	6

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91	Plant Parasitic Oomycetes Such asPhytophthoraSpecies Contain Genes Derived from Three Eukaryotic Lineages. Plant Signaling and Behavior, 2007, 2, 112-114.	2.4	17
92	Insights from Sequencing Fungal and Oomycete Genomes: What Can We Learn about Plant Disease and the Evolution of Pathogenicity?. Plant Cell, 2007, 19, 3318-3326.	6.6	110
93	Yeast forms dominate fungal diversity in the deep oceans. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 3069-3077.	2.6	209
94	DNA evidence for global dispersal and probable endemicity of protozoa. BMC Evolutionary Biology, 2007, 7, 162.	3.2	111
95	Enzymes of type II fatty acid synthesis and apicoplast differentiation and division in Eimeria tenella. International Journal for Parasitology, 2007, 37, 33-51.	3.1	39
96	Evolution of Filamentous Plant Pathogens: Gene Exchange across Eukaryotic Kingdoms. Current Biology, 2006, 16, 1857-1864.	3.9	197
97	Evolution of the Isd11â€“IscS Complex Reveals a Single Î±-Proteobacterial Endosymbiosis for All Eukaryotes. Molecular Biology and Evolution, 2006, 23, 1341-1344.	8.9	69
98	Evolutionary Origins of the Eukaryotic Shikimate Pathway: Gene Fusions, Horizontal Gene Transfer, and Endosymbiotic Replacements. Eukaryotic Cell, 2006, 5, 1517-1531.	3.4	170
99	The molecular diversity of freshwater picoeukaryotes from an oligotrophic lake reveals diverse, distinctive and globally dispersed lineages. Environmental Microbiology, 2005, 7, 1413-1425.	3.8	171
100	Myosin domain evolution and the primary divergence of eukaryotes. Nature, 2005, 436, 1113-1118.	27.8	393
101	The unusual mitochondrial compartment of Cryptosporidium parvum. Trends in Parasitology, 2005, 21, 68-74.	3.3	54
102	Molecular screening of free-living microbial eukaryotes: diversity and distribution using a meta-analysis. Current Opinion in Microbiology, 2005, 8, 240-252.	5.1	111
103	A complete shikimate pathway in Toxoplasma gondii: an ancient eukaryotic innovation. International Journal for Parasitology, 2004, 34, 5-13.	3.1	65
104	Evidence for mitochondrial-derived alternative oxidase in the apicomplexan parasite Cryptosporidium parvum: a potential anti-microbial agent target. International Journal for Parasitology, 2004, 34, 297-308.	3.1	86
105	Revealing microparasite diversity in aquatic environments using brute force molecular techniques and subtle microscopy. , 0, , 93-116.		5