John M Archibald

List of Publications by Year
in descending order

107 papers	7,434 citations	66343 42 h-index	60623 81 g-index
112 all docs	112 docs citations	112 times ranked	6758 citing authors

#	Article	IF	Citations
1	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.	5.6	885
2	Endosymbiosis and Eukaryotic Cell Evolution. Current Biology, 2015, 25, R911-R921.	3.9	426
3	The Puzzle of Plastid Evolution. Current Biology, 2009, 19, R81-R88.	3.9	413
4	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. Nature, 2012, 492, 59-65.	27.8	377
5	The eukaryotic tree of life: endosymbiosis takes its TOL. Trends in Ecology and Evolution, 2008, 23, 268-275.	8.7	267
6	Lateral gene transfer and the evolution of plastid-targeted proteins in the secondary plastid-containing alga <i>Bigelowiella natans</i>. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7678-7683.	7.1	241
7	Plant evolution: landmarks on the path to terrestrial life. New Phytologist, 2018, 217, 1428-1434.	7.3	236
8	Recycled plastids: a â€˜green movementâ€™ in eukaryotic evolution. Trends in Genetics, 2002, 18, 577-584.	6.7	212
9	Probing the evolution, ecology and physiology of marine protists using transcriptomics. Nature Reviews Microbiology, 2017, 15, 6-20.	28.6	176
10	10KP: A phylodiverse genome sequencing plan. GigaScience, 2018, 7, 1-9.	6.4	169
11	Embryophyte stress signaling evolved in the algal progenitors of land plants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3471-E3480.	7.1	164
12	Large-Scale Phylogenomic Analyses Reveal That Two Enigmatic Protist Lineages, Telonemia and Centroheliozoa, Are Related to Photosynthetic Chromalveolates. Genome Biology and Evolution, 2009, 1, 231-238.	2.5	143
13	Nucleomorph genome of <i>Hemiselmis andersenii</i> reveals complete intron loss and compaction as a driver of protein structure and function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19908-19913.	7.1	139
14	Streptophyte Terrestrialization in Light of Plastid Evolution. Trends in Plant Science, 2016, 21, 467-476.	8.8	136
15	The Earth BioGenome Project 2020: Starting the clock. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	124
16	Complete genome of a nonphotosynthetic cyanobacterium in a diatom reveals recent adaptations to an intracellular lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11407-11412.	7.1	121
17	Genomic perspectives on the birth and spread of plastids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10147-10153.	7.1	121
18	Nucleomorph genomes: structure, function, origin and evolution. BioEssays, 2007, 29, 392-402.	2.5	103

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19	How Embryophytic is the Biosynthesis of Phenylpropanoids and their Derivatives in Streptophyte Algae?. Plant and Cell Physiology, 2017, 58, 934-945.	3.1	102
20	Plastid Genome Sequence of the Cryptophyte Alga Rhodomonas salina CCMP1319: Lateral Transfer of Putative DNA Replication Machinery and a Test of Chromist Plastid Phylogeny. Molecular Biology and Evolution, 2007, 24, 1832-1842.	8.9	100
21	Extreme genome diversity in the hyper-prevalent parasitic eukaryote Blastocystis. PLoS Biology, 2017, 15, e2003769.	5.6	99
22	Lateral Gene Transfer in the Adaptation of the Anaerobic Parasite Blastocystis to the Gut. Current Biology, 2017, 27, 807-820.	3.9	94
23	The New Red Algal Subphylum Proteorhodophytina Comprises the Largest and Most Divergent Plastid Genomes Known. Current Biology, 2017, 27, 1677-1684.e4.	3.9	89
24	A Novel Polyubiquitin Structure in Cercozoa and Foraminifera: Evidence for a New Eukaryotic Supergroup. Molecular Biology and Evolution, 2003, 20, 62-66.	8.9	87
25	Nucleomorph Genomes. Annual Review of Genetics, 2009, 43, 251-264.	7.6	80
26	Genomic Insights into Plastid Evolution. Genome Biology and Evolution, 2020, 12, 978-990.	2.5	79
27	More protist genomes needed. Nature Ecology and Evolution, 2017, 1, 145.	7.8	78
28	The Complete Plastid Genome Sequence of the Secondarily Nonphotosynthetic Alga Cryptomonas paramecium: Reduction, Compaction, and Accelerated Evolutionary Rate. Genome Biology and Evolution, 2009, 1, 439-448.	2.5	70
29	Alternatives to vitamin B1 uptake revealed with discovery of riboswitches in multiple marine eukaryotic lineages. ISME Journal, 2014, 8, 2517-2529.	9.8	69
30	Heat stress response in the closest algal relatives of land plants reveals conserved stress signaling circuits. Plant Journal, 2020, 103, 1025-1048.	5.7	65
31	Actin and Ubiquitin Protein Sequences Support a Cercozoan/Foraminiferan Ancestry for the Plasmodiophorid Plant Pathogens. Journal of Eukaryotic Microbiology, 2004, 51, 113-118.	1.7	62
32	Complete Nucleomorph Genome Sequence of the Nonphotosynthetic Alga Cryptomonas paramecium Reveals a Core Nucleomorph Gene Set. Genome Biology and Evolution, 2011, 3, 44-54.	2.5	62
33	The Chaperonin Genes of Jakobid and Jakobid-Like Flagellates: Implications for Eukaryotic Evolution. Molecular Biology and Evolution, 2002, 19, 422-431.	8.9	59
34	Endosymbiosis: Did Plastids Evolve from a Freshwater Cyanobacterium?. Current Biology, 2017, 27, R103-R105.	3.9	56
35	On plant defense signaling networks and early land plant evolution. Communicative and Integrative Biology, 2018, 11, 1-14.	1.4	54
36	Eukaryote-to-eukaryote gene transfer gives rise to genome mosaicism in euglenids. BMC Evolutionary Biology, 2011, 11, 105.	3.2	53

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37	Localization and Evolution of Putative Triose Phosphate Translocators in the Diatom<i>Phaeodactylum tricornutum</i>. Genome Biology and Evolution, 2015, 7, 2955-2969.	2.5	53
38	A Non-photosynthetic Diatom Reveals Early Steps of Reductive Evolution in Plastids. Molecular Biology and Evolution, 2017, 34, 2355-2366.	8.9	52
39	Evolutionary Dynamics of Cryptophyte Plastid Genomes. Genome Biology and Evolution, 2017, 9, 1859-1872.	2.5	51
40	Why sequence all eukaryotes?. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	51
41	Nucleomorph Genome Sequence of the Cryptophyte Alga Chroomonas mesostigmatica CCMP1168 Reveals Lineage-Specific Gene Loss and Genome Complexity. Genome Biology and Evolution, 2012, 4, 1162-1175.	2.5	50
42	Complete Sequence and Analysis of the Mitochondrial Genome of Hemiselmis andersenii CCMP644 (Cryptophyceae). BMC Genomics, 2008, 9, 215.	2.8	49
43	Dual Organellar Targeting of Aminoacyl-tRNA Synthetases in Diatoms and Cryptophytes. Genome Biology and Evolution, 2015, 7, 1728-1742.	2.5	46
44	Jumping Genes and Shrinking Genomes â€“ Probing the Evolution of Eukaryotic Photosynthesis with Genomics. IUBMB Life, 2005, 57, 539-547.	3.4	45
45	Genome sequencing reveals metabolic and cellular interdependence in an amoeba-kinetoplastid symbiosis. Scientific Reports, 2017, 7, 11688.	3.3	44
46	Insight into the Diversity and Evolution of the Cryptomonad Nucleomorph Genome. Molecular Biology and Evolution, 2006, 23, 856-865.	8.9	42
47	Nuclear genome sequence of the plastid-lacking cryptomonad Goniomonas avonlea provides insights into the evolution of secondary plastids. BMC Biology, 2018, 16, 137.	3.8	42
48	Opportunistic but Lethal: The Mystery of Paramoebae. Trends in Parasitology, 2018, 34, 404-419.	3.3	41
49	Lateral Gene Transfer Mechanisms and Pan-genomes in Eukaryotes. Trends in Parasitology, 2020, 36, 927-941.	3.3	41
50	Massive mitochondrial DNA content in diplonemid and kinetoplastid protists. IUBMB Life, 2018, 70, 1267-1274.	3.4	39
51	Going, Going, Not Quite Gone: Nucleomorphs as a Case Study in Nuclear Genome Reduction. Journal of Heredity, 2009, 100, 582-590.	2.4	38
52	NEW MARINE MEMBERS OF THE GENUS <i>HEMISELMIS</i> (CRYPTOMONADALES,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (CRY	2.3	37
53	Lateral transfer of introns in the cryptophyte plastid genome. Nucleic Acids Research, 2008, 36, 3043-3053.	14.5	34
54	Symbiosis in the microbial world: from ecology to genome evolution. Biology Open, 2018, 7, .	1.2	34

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55	Ultrastructure and Molecular Phylogeny of the Cryptomonad Goniomonas avonlea sp. nov.. Protist, 2013, 164, 160-182.	1.5	33
56	Standards recommendations for the Earth BioGenome Project. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	33
57	Gene transfer: anything goes in plant mitochondria. BMC Biology, 2010, 8, 147.	3.8	32
58	Origin of eukaryotic cells: 40Âyears on. Symbiosis, 2011, 54, 69-86.	2.3	32
59	Nucleomorph and plastid genome sequences of the chlorarachniophyte Lotharella oceanica: convergent reductive evolution and frequent recombination in nucleomorph-bearing algae. BMC Genomics, 2014, 15, 374.	2.8	32
60	Gene Conversion and the Evolution of Euryarchaeal Chaperonins: A Maximum Likelihood-Based Method for Detecting Conflicting Phylogenetic Signals. Journal of Molecular Evolution, 2002, 55, 232-245.	1.8	30
61	Novel Ubiquitin Fusion Proteins: Ribosomal Protein P1 and Actin. Journal of Molecular Biology, 2003, 328, 771-778.	4.2	28
62	Gene Loss and Error-Prone RNA Editing in the Mitochondrion of <i>Perkinsela</i> , an Endosymbiotic Kinetoplastid. MBio, 2015, 6, e01498-15.	4.1	28
63	Molecular Chaperones Encoded by a Reduced Nucleus: The Cryptomonad Nucleomorph. Journal of Molecular Evolution, 2001, 52, 490-501.	1.8	27
64	Comparative plastid genomics of Synurophyceae: inverted repeat dynamics and gene content variation. BMC Evolutionary Biology, 2019, 19, 20.	3.2	27
65	Comparative Plastid Genomics of Cryptomonas Species Reveals Fine-Scale Genomic Responses to Loss of Photosynthesis. Genome Biology and Evolution, 2020, 12, 3926-3937.	2.5	27
66	Treetrimmer: a method for phylogenetic dataset size reduction. BMC Research Notes, 2013, 6, 145.	1.4	25
67	Endosymbiosis: Double-Take on Plastid Origins. Current Biology, 2006, 16, R690-R692.	3.9	24
68	Comparative genomics of mitochondria in chlorarachniophyte algae: endosymbiotic gene transfer and organellar genome dynamics. Scientific Reports, 2016, 6, 21016.	3.3	23
69	Comparative mitochondrial genomics of cryptophyte algae: gene shuffling and dynamic mobile genetic elements. BMC Genomics, 2018, 19, 275.	2.8	23
70	Plastid genomes. Current Biology, 2018, 28, R336-R337.	3.9	22
71	Re-examination of two diatom reference genomes using long-read sequencing. BMC Genomics, 2021, 22, 379.	2.8	22
72	The eocyte hypothesis and the origin of eukaryotic cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20049-20050.	7.1	21

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73	Genomic Characterization of Neoparamoeba pemaquidensis (Amoebozoa) and Its Kinetoplastid Endosymbiont. Eukaryotic Cell, 2011, 10, 1143-1146.	3.4	20
74	Reduced Nuclear Genomes Maintain High Gene Transcription Levels. Molecular Biology and Evolution, 2014, 31, 625-635.	8.9	20
75	<i>Lotharella oceanica</i> sp. nov. â€“ a new planktonic chlorarachniophyte studied by light and electron microscopy. Phycologia, 2009, 48, 315-323.	1.4	19
76	Heme pathway evolution in kinetoplastid protists. BMC Evolutionary Biology, 2016, 16, 109.	3.2	19
77	Plastid Evolution: Remnant Algal Genes in Ciliates. Current Biology, 2008, 18, R663-R665.	3.9	18
78	The past, present and future of the tree of life. Current Biology, 2021, 31, R314-R321.	3.9	18
79	Genomic analysis finds no evidence of canonical eukaryotic DNA processing complexes in a free-living protist. Nature Communications, 2021, 12, 6003.	12.8	17
80	NUCLEOMORPH KARYOTYPE DIVERSITY IN THE FRESHWATER CRYPTOPHYTE GENUS <i>CRYPTOMONAS</i>¹. Journal of Phycology, 2008, 44, 11-14.	2.3	15
81	Algal Genomics: Exploring the Imprint of Endosymbiosis. Current Biology, 2006, 16, R1033-R1035.	3.9	14
82	Diversity and Evolution of <i>Paramoeba</i> spp. and their Kinetoplastid Endosymbionts. Journal of Eukaryotic Microbiology, 2017, 64, 598-607.	1.7	14
83	The Carboxy Terminus of YCF1 Contains a Motif Conserved throughout >500 Myr of Streptophyte Evolution. Genome Biology and Evolution, 2017, 9, 473-479.	2.5	14
84	Overexpression of Molecular Chaperone Genes in Nucleomorph Genomes. Molecular Biology and Evolution, 2014, 31, 1437-1443.	8.9	12
85	Submergence of the filamentous Zygnematophyceae Mougeotia induces differential gene expression patterns associated with core metabolism and photosynthesis. Protoplasma, 2022, 259, 1157-1174.	2.1	12
86	Green Evolution, Green Revolution. Science, 2009, 324, 191-192.	12.6	11
87	Evolution: Plumbing the Depths of Diplonemid Diversity. Current Biology, 2016, 26, R1290-R1292.	3.9	11
88	Mitochondrial Genome Evolution in Pelagophyte Algae. Genome Biology and Evolution, 2021, 13, .	2.5	10
89	Gene transfer in complex cells. Nature, 2015, 524, 423-424.	27.8	9
90	Ubiquitin fusion proteins in algae: implications for cell biology and the spread of photosynthesis. BMC Genomics, 2019, 20, 38.	2.8	9

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91	The origin and spread of eukaryotic photosynthesis: evolving views in light of genomics. Botanica Marina, 2009, 52, 95-103.	1.2	8
92	Relative Mutation Rates in Nucleomorph-Bearing Algae. Genome Biology and Evolution, 2019, 11, 1045-1053.	2.5	8
93	Comparative Plastid Genomics of Non-Photosynthetic Chrysophytes: Genome Reduction and Compaction. Frontiers in Plant Science, 2020, 11, 572703.	3.6	8
94	Nucleomorph Comparative Genomics. , 2014, , 197-213.		8
95	Genome complexity in a lean, mean photosynthetic machine. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11433-11434.	7.1	7
96	RNA-Seq analysis reveals potential regulators of programmed cell death and leaf remodelling in lace plant (Aponogeton madagascariensis). BMC Plant Biology, 2021, 21, 375.	3.6	5
97	Cryptomonads. Current Biology, 2020, 30, R1114-R1116.	3.9	4
98	Comparative analyses of saprotrophy in Salisapilia sapeloensis and diverse plant pathogenic oomycetes reveal lifestyle-specific gene expression. FEMS Microbiology Ecology, 2020, 96, .	2.7	4
99	Evolutionary Biology: Viral Rhodopsins Illuminate Algal Evolution. Current Biology, 2020, 30, R1469-R1471.	3.9	4
100	Evolutionary Dynamics and Lateral Gene Transfer in Raphidophyceae Plastid Genomes. Frontiers in Plant Science, 2022, 13, .	3.6	3
101	Evolution: Protein Import in a Nascent Photosynthetic Organelle. Current Biology, 2017, 27, R1004-R1006.	3.9	2
102	Genomics reveals alga-associated cyanobacteria hiding in plain sight. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15757-15759.	7.1	2
103	Evolution: New Protist Predators under the Sun. Current Biology, 2019, 29, R936-R938.	3.9	2
104	Nucleomorph Small RNAs in Cryptophyte and Chlorarachniophyte Algae. Genome Biology and Evolution, 2019, 11, 1117-1134.	2.5	1
105	Phagotrophy in chlorarachniophyte algae: implications for eukaryotic genome evolution. Journal of Eukaryotic Microbiology, 2005, 52, 7S-27S.	1.7	0
106	Phagocytosis in a Shape-shifting Bacterium. Trends in Microbiology, 2020, 28, 428-430.	7.7	0
107	TreeTuner: A pipeline for minimizing redundancy and complexity in large phylogenetic datasets. STAR Protocols, 2022, 3, 101175.	1.2	0