Martin Embley

List of Publications by Year
in descending order

68 papers	11,428 citations	44069 48 h-index	91884 69 g-index
71 all docs	71 docs citations	71 times ranked	8626 citing authors

#	Article	IF	Citations
1	The Genome of the African Trypanosome Trypanosoma brucei. Science, 2005, 309, 416-422.	12.6	1,496
2	Eukaryotic evolution, changes and challenges. Nature, 2006, 440, 623-630.	27.8	805
3	The genome of the protist parasite Entamoeba histolytica. Nature, 2005, 433, 865-868.	27.8	783
4	Draft Genome Sequence of the Sexually Transmitted Pathogen Trichomonas vaginalis. Science, 2007, 315, 207-212.	12.6	731
5	Comparative Genomics of Trypanosomatid Parasitic Protozoa. Science, 2005, 309, 404-409.	12.6	713
6	Microsporidia are related to Fungi: Evidence from the largest subunit of RNA polymerase II and other proteins. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 580-585.	7.1	489
7	An archaeal origin of eukaryotes supports only two primary domains of life. Nature, 2013, 504, 231-236.	27.8	456
8	A mitochondrial remnant in the microsporidian Trachipleistophora hominis. Nature, 2002, 418, 865-869.	27.8	396
9	The archaebacterial origin of eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20356-20361.	7.1	306
10	Early branching eukaryotes?. Current Opinion in Genetics and Development, 1998, 8, 624-629.	3.3	269
11	Phylogenetic Analyses of Diplomonad Genes Reveal Frequent Lateral Gene Transfers Affecting Eukaryotes. Current Biology, 2003, 13, 94-104.	3.9	253
12	Trichomonas hydrogenosomes contain the NADH dehydrogenase module of mitochondrial complex I. Nature, 2004, 432, 618-622.	27.8	247
13	A novel route for ATP acquisition by the remnant mitochondria of Encephalitozoon cuniculi. Nature, 2008, 453, 553-556.	27.8	222
14	Localization and functionality of microsporidian ironâ€“sulphur cluster assembly proteins. Nature, 2008, 452, 624-628.	27.8	210
15	Diversity and reductive evolution of mitochondria among microbial eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 713-727.	4.0	190
16	Structure and Content of the Entamoeba histolytica Genome. Advances in Parasitology, 2007, 65, 51-190.	3.2	188
17	Grassland Management Regimens Reduce Small-Scale Heterogeneity and Species Diversity of Î²-Proteobacterial Ammonia Oxidizer Populations. Applied and Environmental Microbiology, 2002, 68, 20-30.	3.1	187
18	Conflicting Phylogenies for Early Land Plants are Caused by Composition Biases among Synonymous Substitutions. Systematic Biology, 2014, 63, 272-279.	5.6	172

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19	Multiple origins of anaerobic ciliates with hydrogenosomes within the radiation of aerobic ciliates. Proceedings of the Royal Society B: Biological Sciences, 1995, 262, 87-93.	2.6	156
20	Hydrogenosomes, Mitochondria and Early Eukaryotic Evolution. IUBMB Life, 2003, 55, 387-395.	3.4	151
21	Of clades and clans: terms for phylogenetic relationships in unrooted trees. Trends in Ecology and Evolution, 2007, 22, 114-115.	8.7	145
22	Mitochondria and hydrogenosomes are two forms of the same fundamental organelle. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 191-203.	4.0	138
23	Iron hydrogenases â€“ ancient enzymes in modern eukaryotes. Trends in Biochemical Sciences, 2002, 27, 148-153.	7.5	135
24	The Genome of the Obligate Intracellular Parasite Trachipleistophora hominis: New Insights into Microsporidian Genome Dynamics and Reductive Evolution. PLoS Pathogens, 2012, 8, e1002979.	4.7	127
25	Reduction and Expansion in Microsporidian Genome Evolution: New Insights from Comparative Genomics. Genome Biology and Evolution, 2013, 5, 2285-2303.	2.5	114
26	Multiple secondary origins of the anaerobic lifestyle in eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 1055-1067.	4.0	110
27	Isolation of haloarchaea that grow at low salinities. Environmental Microbiology, 2004, 6, 591-595.	3.8	107
28	Conserved properties of hydrogenosomal and mitochondrial ADP/ATP carriers: a common origin for both organelles. EMBO Journal, 2002, 21, 572-579.	7.8	99
29	Anaerobic eukaryote evolution: hydrogenosomes as biochemically modified mitochondria?. Trends in Ecology and Evolution, 1997, 12, 437-441.	8.7	93
30	Phylogenetic Relationships among Karyorelictids and Heterotrichs Inferred from Small Subunit rRNA Sequences: Resolution at the Base of the Ciliate Tree. Molecular Phylogenetics and Evolution, 1995, 4, 77-87.	2.7	83
31	A Novel ADP/ATP Transporter in the Mitosome of the Microaerophilic Human Parasite Entamoeba histolytica. Current Biology, 2005, 15, 737-742.	3.9	82
32	Archaeal â€œDark Matterâ€•and the Origin of Eukaryotes. Genome Biology and Evolution, 2014, 6, 474-481.	2.5	81
33	Patterns of prokaryotic lateral gene transfers affecting parasitic microbial eukaryotes. Genome Biology, 2013, 14, R19.	9.6	80
34	Planctomycetes and eukaryotes: A case of analogy not homology. BioEssays, 2011, 33, 810-817.	2.5	79
35	Informational Gene Phylogenies Do Not Support a Fourth Domain of Life for Nucleocytoplasmic Large DNA Viruses. PLoS ONE, 2011, 6, e21080.	2.5	73
36	The SAR11 Group of Alpha-Proteobacteria Is Not Related to the Origin of Mitochondria. PLoS ONE, 2012, 7, e30520.	2.5	71

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37	The Amitochondriate Eukaryote Trichomonas vaginalis Contains a Divergent Thioredoxin-linked Peroxiredoxin Antioxidant System. Journal of Biological Chemistry, 2004, 279, 5249-5256.	3.4	69
38	Plasma Membrane-Located Purine Nucleotide Transport Proteins Are Key Components for Host Exploitation by Microsporidian Intracellular Parasites. PLoS Pathogens, 2014, 10, e1004547.	4.7	69
39	Evolutionary conservation and in vitro reconstitution of microsporidian ironâ€“sulfur cluster biosynthesis. Nature Communications, 2017, 8, 13932.	12.8	67
40	Inference of the Phylogenetic Position of Oxymonads Based on Nine Genes: Support for Metamonada and Excavata. Molecular Biology and Evolution, 2005, 22, 2508-2518.	8.9	66
41	Transport proteins of parasitic protists and their role in nutrient salvage. Frontiers in Plant Science, 2014, 5, 153.	3.6	65
42	The ribulose-1,5-bisphosphate carboxylase/oxygenase gene cluster of Methylococcus capsulatus (Bath). Archives of Microbiology, 2002, 177, 279-289.	2.2	63
43	Microsporidia: Why Make Nucleotides if You Can Steal Them?. PLoS Pathogens, 2016, 12, e1005870.	4.7	62
44	Transporter gene acquisition and innovation in the evolution of Microsporidia intracellular parasites. Nature Communications, 2018, 9, 1709.	12.8	58
45	The distribution and activity of sulphate reducing bacteria in estuarine and coastal marine sediments. Antonie Van Leeuwenhoek, 2002, 81, 181-187.	1.7	57
46	Unique phylogenetic relationships of glucokinase and glucosephosphate isomerase of the amitochondriate eukaryotes Giardia intestinalis, Spironucleus barkhanus and Trichomonas vaginalis. Gene, 2001, 281, 123-131.	2.2	56
47	Reductive Evolution of the Mitochondrial Processing Peptidases of the Unicellular Parasites Trichomonas vaginalis and Giardia intestinalis. PLoS Pathogens, 2008, 4, e1000243.	4.7	56
48	Early evolution comes full circle. Nature, 2004, 431, 134-137.	27.8	51
49	Compositional Biases among Synonymous Substitutions Cause Conflict between Gene and Protein Trees for Plastid Origins. Molecular Biology and Evolution, 2014, 31, 1697-1709.	8.9	49
50	Systematic and morphological diversity of endosymbiotic methanogens in anaerobic ciliates. Antonie Van Leeuwenhoek, 1994, 64, 261-271.	1.7	48
51	Use of 16S rRNA-targeted oligonucleotide probes to investigate function and phylogeny of sulphate-reducing bacteria and methanogenic archaea in a UK estuary. FEMS Microbiology Ecology, 2003, 44, 361-371.	2.7	48
52	Horizontal Gene Transfer in Eukaryotic Parasites: A Case Study of Entamoeba histolytica and Trichomonas vaginalis. Methods in Molecular Biology, 2009, 532, 489-500.	0.9	48
53	Frataxin, a Conserved Mitochondrial Protein, in the Hydrogenosome of Trichomonas vaginalis. Eukaryotic Cell, 2007, 6, 1431-1438.	3.4	43
54	Lateral gene transfers and the origins of the eukaryote proteome: a view from microbial parasites. Current Opinion in Microbiology, 2015, 23, 155-162.	5.1	42

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55	Fungal Hydrogenosomes Contain Mitochondrial Heat-Shock Proteins. Molecular Biology and Evolution, 2003, 20, 1051-1061.	8.9	39
56	An [Fe] hydrogenase from the anaerobic hydrogenosome-containing fungus Neocallimastix frontalis L2. Gene, 2002, 296, 45-52.	2.2	37
57	Phylogenetic Diversity of NTT Nucleotide Transport Proteins in Free-Living and Parasitic Bacteria and Eukaryotes. Genome Biology and Evolution, 2017, 9, 480-487.	2.5	33
58	Transcriptomic profiling of host-parasite interactions in the microsporidian Trachipleistophora hominis. BMC Genomics, 2015, 16, 983.	2.8	30
59	Introduction: how and when did microbes change the world?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 845-850.	4.0	29
60	A new family of cell surface located purine transporters in Microsporidia and related fungal endoparasites. ELife, 2019, 8, .	6.0	24
61	Resculpting the binding pocket of APC superfamily LeuT-fold amino acid transporters. Cellular and Molecular Life Sciences, 2018, 75, 921-938.	5.4	21
62	Hydrogenosomal succinyl-CoA synthetase from the rumen-dwelling fungus Neocallimastix patriciarum; an energy-producing enzyme of mitochondrial origin. Gene, 2006, 373, 75-82.	2.2	20
63	Bayesian modelling of compositional heterogeneity in molecular phylogenetics. Statistical Applications in Genetics and Molecular Biology, 2014, 13, 589-609.	0.6	17
64	RNA sequence analysis shows that the symbionts in the ciliate Metopus contortus are polymorphs of a single methanogen species. FEMS Microbiology Letters, 1992, 97, 57-61.	1.8	15
65	MICROBIAL DIVERSITY: Domains and Kingdoms. Annual Review of Ecology, Evolution, and Systematics, 1996, 27, 569-595.	6.7	11
66	Biochemical and genetic evidence for a family of heterotrimeric G-proteins in Trichomonas vaginalis. Molecular and Biochemical Parasitology, 2003, 129, 179-189.	1.1	10
67	Comparison of the molecular diversity of the methanogenic community at the brackish and marine ends of a UK estuary. FEMS Microbiology Ecology, 2002, 39, 17-21.	2.7	5
68	Use of 16S rRNA-targeted oligonucleotide probes to investigate the occurrence and selection of sulfate-reducing bacteria in response to nutrient addition to sediment slurry microcosms from a Japanese estuary. FEMS Microbiology Ecology, 1997, 24, 221-234.	2.7	5