Aloysius G M Tielens

List of Publications by Citations

71 papers	3,999 citations	32 h-index	63 g-index
72 ext. papers	4,458 ext. citations	5.3 avg, IF	4.95 L-index

#	Paper	IF	Citations
71	Biochemistry and evolution of anaerobic energy metabolism in eukaryotes. *Microbiology and Molecular Biology Reviews*, **2012**, 76, 444-95	13.2	496
70	A novel host-parasite lipid cross-talk. Schistosomal lyso-phosphatidylserine activates toll-like receptor 2 and affects immune polarization. *Journal of Biological Chemistry*, **2002**, 277, 48122-9	5.4	452
69	Mitochondria as we don't know them. *Trends in Biochemical Sciences*, **2002**, 27, 564-72	10.3	286
68	An anaerobic mitochondrion that produces hydrogen. *Nature*, **2005**, 434, 74-9	50.4	213
67	Mass spectrometric analysis of the Schistosoma mansoni tegumental sub-proteome. *Journal of Proteome Research*, **2005**, 4, 958-66	5.6	139
66	Functions of the tegument of schistosomes: clues from the proteome and lipidome. *International Journal for Parasitology*, **2006**, 36, 691-9	4.3	137
65	Phospholipids in parasitic protozoa. *Molecular and Biochemical Parasitology*, **2003**, 126, 143-54	1.9	115
64	Surprising variety in energy metabolism within Trypanosomatidae. *Trends in Parasitology*, **2009**, 25, 482-90	5.4	97
63	Procyclic Trypanosoma brucei do not use Krebs cycle activity for energy generation. *Journal of Biological Chemistry*, **2003**, 278, 12854-63	5.4	94
62	New functions for parts of the Krebs cycle in procyclic Trypanosoma brucei, a cycle not operating as a cycle. *Journal of Biological Chemistry*, **2005**, 280, 12451-60	5.4	89
61	Triggering of innate immune responses by schistosome egg glycolipids and their carbohydrate epitope GalNAc beta 1-4(Fuc alpha 1-2Fuc alpha 1-3)GlcNAc. *Journal of Infectious Diseases*, **2002**, 185, 531-9	7	89
60	Multiple origins of hydrogenosomes: functional and phylogenetic evidence from the ADP/ATP carrier of the anaerobic chytrid Neocallimastix sp. *Molecular Microbiology*, **2002**, 44, 1441-54	4.1	88
59	Acetate formation in the energy metabolism of parasitic helminths and protists. *International Journal for Parasitology*, **2010**, 40, 387-97	4.3	85
58	The anaerobic chytridiomycete fungus Piromyces sp. E2 produces ethanol via pyruvate:formate lyase and an alcohol dehydrogenase E. *Molecular Microbiology*, **2004**, 51, 1389-99	4.1	82
57	A simple and universal method for the separation and identification of phospholipid molecular species. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 1853-62	2.2	81
56	Acetyl:succinate CoA-transferase in procyclic Trypanosoma brucei. Gene identification and role in carbohydrate metabolism. *Journal of Biological Chemistry*, **2004**, 279, 45337-46	5.4	81
55	Anaerobic energy metabolism in unicellular photosynthetic eukaryotes. *Biochimica Et Biophysica Acta - Bioenergetics*, **2013**, 1827, 210-23	4.6	75

54	Combined TLR2 and TLR4 ligation in the context of bacterial or helminth extracts in human monocyte derived dendritic cells: molecular correlates for Th1/Th2 polarization. *BMC Immunology*, **2009**, 10, 9	3.7	69
53	Euglena gracilis rhodoquinone:ubiquinone ratio and mitochondrial proteome differ under aerobic and anaerobic conditions. *Journal of Biological Chemistry*, **2004**, 279, 22422-9	5.4	68
52	Responses to Toll-like receptor ligands in children living in areas where schistosome infections are endemic. *Journal of Infectious Diseases*, **2004**, 189, 1044-51	7	62
51	The Physiology of Phagocytosis in the Context of Mitochondrial Origin. *Microbiology and Molecular Biology Reviews*, **2017**, 81,	13.2	61
50	Biochemical and evolutionary aspects of anaerobically functioning mitochondria. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2003**, 358, 205-13; discussion 213-5	5.8	59
49	Interference with the host haemostatic system by schistosomes. *PLoS Pathogens*, **2013**, 9, e1003781	7.6	58
48	The organellar genome and metabolic potential of the hydrogen-producing mitochondrion of Nyctotherus ovalis. *Molecular Biology and Evolution*, **2011**, 28, 2379-91	8.3	54
47	Acetate:succinate CoA-transferase in the hydrogenosomes of Trichomonas vaginalis: identification and characterization. *Journal of Biological Chemistry*, **2008**, 283, 1411-1418	5.4	49
46	A divergent ADP/ATP carrier in the hydrogenosomes of Trichomonas gallinae argues for an independent origin of these organelles. *Molecular Microbiology*, **2004**, 51, 1439-46	4.1	47
45	Energy metabolism and its compartmentation in Trypanosoma brucei. *Advances in Microbial Physiology*, **2005**, 50, 199-226	4.4	44
44	Plastid-bearing sea slugs fix CO2 in the light but do not require photosynthesis to survive. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20132493	4.4	41
43	Identification of prokaryotic homologues indicates an endosymbiotic origin for the alternative oxidases of mitochondria (AOX) and chloroplasts (PTOX). *Gene*, **2004**, 330, 143-8	3.8	38
42	The proteome of the insoluble Schistosoma mansoni eggshell skeleton. *International Journal for Parasitology*, **2011**, 41, 523-32	4.3	37
41	Proteins and lipids of glycosomal membranes from Leishmania tarentolae and Trypanosoma brucei. *F1000Research*, **2013**, 2, 27	3.6	34
40	Naegleria gruberi metabolism. *International Journal for Parasitology*, **2011**, 41, 915-24	4.3	33
39	Schistosoma mansoni: the egg, biosynthesis of the shell and interaction with the host. *Experimental Parasitology*, **2012**, 132, 7-13	2.1	32
38	Comparison of sister species identifies factors underpinning plastid compatibility in green sea slugs. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282,	4.4	29
37	Adaptations in the lipid metabolism of the protozoan parasite Trypanosoma brucei. *FEBS Letters*, **2006**, 580, 5552-8	3.8	29

36	TrypanoCyc: a community-led biochemical pathways database for Trypanosoma brucei. *Nucleic Acids Research*, **2015**, 43, D637-44	20.1	28
35	Recognition of schistosome glycolipids by immunoglobulin E: possible role in immunity. *Infection and Immunity*, **1999**, 67, 5946-50	3.7	26
34	Adaptations in the glucose metabolism of procyclic Trypanosoma brucei isolates from tsetse flies and during differentiation of bloodstream forms. *Eukaryotic Cell*, **2009**, 8, 1307-11		25
33	Proliferating bloodstream-form Trypanosoma brucei use a negligible part of consumed glucose for anabolic processes. *International Journal for Parasitology*, **2012**, 42, 667-73	4.3	24
32	Of early animals, anaerobic mitochondria, and a modern sponge. *BioEssays*, **2014**, 36, 924-32	4.1	23
31	Schistosome biology and proteomics: progress and challenges. *Experimental Parasitology*, **2007**, 117, 267-74	2.1	23
30	The tegumental surface membranes of Schistosoma mansoni are enriched in parasite-specific phospholipid species. *International Journal for Parasitology*, **2015**, 45, 629-36	4.3	22
29	5-Octadecenoic acid: evidence for a novel type of fatty acid modification in schistosomes. *Biochemical Journal*, **1998**, 334 (Pt 2), 315-9	3.8	22
28	Hydrogenosomes of Anaerobic Ciliates. *Microbiology Monographs*, **2008**, 97-112	0.8	21
27	Energy metabolism in anaerobic eukaryotes and Earth's late oxygenation. *Free Radical Biology and Medicine*, **2019**, 140, 279-294	7.8	20
26	Why It Is Time to Look Beyond Algal Genes in Photosynthetic Slugs. *Genome Biology and Evolution*, **2015**, 7, 2602-7	3.9	20
25	Acetate:succinate CoA-transferase in the anaerobic mitochondria of Fasciola hepatica. *Molecular and Biochemical Parasitology*, **2009**, 164, 74-9	1.9	20
24	The Solubilization of a SHAM Sensitive, Cyanide Insensitive Ubiquinol Oxidase from Trypanosoma brucei. *Journal of Parasitology*, **1985**, 71, 384	0.9	17
23	The Mitochondrion of Euglena gracilis. *Advances in Experimental Medicine and Biology*, **2017**, 979, 19-37	3.6	16
22	Schistosoma mansoni does not and cannot oxidise fatty acids, but these are used for biosynthetic purposes instead. *International Journal for Parasitology*, **2019**, 49, 647-656	4.3	12
21	The ability to incorporate functional plastids by the sea slug Elysia viridis is governed by its food source. *Marine Biology*, **2018**, 165, 1	2.5	12
20	Anaerobic Mitochondria: Properties and Origins **2007**, 85-103		12
19	Lipids Are the Preferred Substrate of the Protist Naegleria gruberi, Relative of a Human Brain Pathogen. *Cell Reports*, **2018**, 25, 537-543.e3	10.6	12

18	Binding of von Willebrand factor and plasma proteins to the eggshell of Schistosoma mansoni. *International Journal for Parasitology*, **2014**, 44, 263-8	4.3	11
17	Targeting of the hydrophobic metabolome by pathogens. *Traffic*, **2015**, 16, 439-60	5.7	10
16	Hydrogenosomes of Anaerobic Chytrids: An Alternative Way to Adapt to Anaerobic Environments. *Microbiology Monographs*, **2008**, 147-162	0.8	10
15	Fibrinogen and fibrin are novel substrates for Fasciola hepatica cathepsin L peptidases. *Molecular and Biochemical Parasitology*, **2018**, 221, 10-13	1.9	9
14	Effects of a single glucocorticoid injection on propylene glycol-treated cows with clinical ketosis. *Veterinary Journal*, **2015**, 204, 144-9	2.5	9
13	Acetylcholinesterase and ATPase activities in erythrocyte ghosts are not affected by 1,2,4-trichlorobenzene: Implications for toxicity by narcotic chemicals. *Environmental Toxicology and Chemistry*, **1997**, 16, 2347-2352	3.8	9
12	On Being the Right Size as an Animal with Plastids. *Frontiers in Plant Science*, **2017**, 8, 1402	6.2	8
11	Energy metabolism of bloodstream form Trypanosoma theileri. *Eukaryotic Cell*, **2007**, 6, 1693-6		7
10	Schistosoma mansoni infection affects the proteome and lipidome of circulating extracellular vesicles in the host. *Molecular and Biochemical Parasitology*, **2020**, 238, 111296	1.9	5
9	Hydrogenosomes of Anaerobic Fungi: An Alternative Way to Adapt to Anaerobic Environments. *Microbiology Monographs*, **2019**, 159-175	0.8	5
8	Inhibition of Fatty Acid Oxidation as a New Target To Treat Primary Amoebic Meningoencephalitis. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	4
7	Hydrogenosomes. *Microbiology Monographs*, **2010**, 175-206	0.8	4
6	Animals, anoxic environments, and reasons to go deep. *BMC Biology*, **2016**, 14, 44	7.3	4
5	Truncation of ADAMTS13 by Plasmin Enhances Its Activity in Plasma. *Thrombosis and Haemostasis*, **2018**, 118, 471-479	7	2
4	A mono-acyl phospholipid (20:1 lyso-PS) activates Toll-Like Receptor 2/6 hetero-dimer. *Chemistry and Physics of Lipids*, **2020**, 232, 104951	3.7	2
3	Hydrogenosomes of Anaerobic Ciliates. *Microbiology Monographs*, **2019**, 111-126	0.8	1
2	Ruptured Echinococcus granulosus cysts in migrants: Is excessive antigen release causing false negative serology?. *Travel Medicine and Infectious Disease*, **2020**, 35, 101412	8.4	
1	Hydrogenosomes. *Microbiology Monographs*, **2018**, 193-222	0.8	