Alan F Cowman

List of Publications by Year
in descending order

245 papers	27,918 citations	3531 90 h-index	6836 155 g-index
246 all docs	246 docs citations	246 times ranked	11873 citing authors

#	Article	IF	Citations
1	Targeting Malaria Virulence and Remodeling Proteins to the Host Erythrocyte. Science, 2004, 306, 1930-1933.	12.6	797
2	Pgh1 modulates sensitivity and resistance to multiple antimalarials in Plasmodium falciparum. Nature, 2000, 403, 906-909.	27.8	786
3	Invasion of Red Blood Cells by Malaria Parasites. Cell, 2006, 124, 755-766.	28.9	772
4	Amplification of the multidrug resistance gene in some chloroquine-resistant isolates of P. falciparum. Cell, 1989, 57, 921-930.	28.9	588
5	Malaria: Biology and Disease. Cell, 2016, 167, 610-624.	28.9	576
6	Cell-Cell Communication between Malaria-Infected Red Blood Cells via Exosome-like Vesicles. Cell, 2013, 153, 1120-1133.	28.9	508
7	Isolation and structure of a rhodopsin gene from D. melanogaster. Cell, 1985, 40, 851-858.	28.9	502
8	Exported Proteins Required for Virulence and Rigidity of Plasmodium falciparum-Infected Human Erythrocytes. Cell, 2008, 134, 48-61.	28.9	450
9	A newly discovered protein export machine in malaria parasites. Nature, 2009, 459, 945-949.	27.8	437
10	Dissecting Apicoplast Targeting in the Malaria Parasite Plasmodium falciparum. Science, 2003, 299, 705-708.	12.6	425
11	Heterochromatin Silencing and Locus Repositioning Linked to Regulation of Virulence Genes in Plasmodium falciparum. Cell, 2005, 121, 13-24.	28.9	412
12	Localization of organellar proteins in Plasmodium falciparum using a novel set of transfection vectors and a new immunofluorescence fixation method. Molecular and Biochemical Parasitology, 2004, 137, 13-21.	1.1	401
13	Targeted Gene Disruption Shows That Knobs Enable Malaria-Infected Red Cells to Cytoadhere under Physiological Shear Stress. Cell, 1997, 89, 287-296.	28.9	398
14	Lineage-specific expansion of proteins exported to erythrocytes in malaria parasites. Genome Biology, 2006, 7, R12.	9.6	365
15	Type II fatty acid synthesis is essential only for malaria parasite late liver stage development. Cellular Microbiology, 2009, 11, 506-520.	2.1	355
16	Malaria parasite proteins that remodel the host erythrocyte. Nature Reviews Microbiology, 2009, 7, 341-354.	28.6	340
17	Pyrimethamineâ€“sulfadoxine resistance in Plasmodium falciparum: what next?. Trends in Parasitology, 2001, 17, 582-588.	3.3	329
18	A Conserved Molecular Motor Drives Cell Invasion and Gliding Motility across Malaria Life Cycle Stages and Other Apicomplexan Parasites. Journal of Biological Chemistry, 2006, 281, 5197-5208.	3.4	317

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19	Super-Resolution Dissection of Coordinated Events during Malaria Parasite Invasion of the Human Erythrocyte. Cell Host and Microbe, 2011, 9, 9-20.	11.0	303
20	Plasmodium falciparum erythrocyte invasion through glycophorin C and selection for Gerbich negativity in human populations. Nature Medicine, 2003, 9, 87-92.	30.7	297
21	An aspartyl protease directs malaria effector proteins to the host cell. Nature, 2010, 463, 627-631.	27.8	289
22	The cellular and molecular basis for malaria parasite invasion of the human red blood cell. Journal of Cell Biology, 2012, 198, 961-971.	5.2	285
23	Apical membrane antigen 1 plays a central role in erythrocyte invasion by Plasmodium species. Molecular Microbiology, 2000, 38, 706-718.	2.5	276
24	Contribution of parasite proteins to altered mechanical properties of malaria-infected red blood cells. Blood, 2002, 99, 1060-1063.	1.4	276
25	Allelic exchange at the endogenous genomic locus in Plasmodium falciparum proves the role of dihydropteroate synthase in sulfadoxine-resistant malaria. EMBO Journal, 1998, 17, 3807-3815.	7.8	257
26	Immune sera recognize on erythrocytes a Plasmodium falciparum antigen composed of repeated amino acid sequences. Nature, 1984, 310, 789-792.	27.8	252
27	Molecular Mechanism for Switching of P. falciparum Invasion Pathways into Human Erythrocytes. Science, 2005, 309, 1384-1387.	12.6	247
28	Revealing the Sequence and Resulting Cellular Morphology of Receptor-Ligand Interactions during Plasmodium falciparum Invasion of Erythrocytes. PLoS Pathogens, 2015, 11, e1004670.	4.7	246
29	A var gene promoter controls allelic exclusion of virulence genes in Plasmodium falciparum malaria. Nature, 2006, 439, 1004-1008.	27.8	245
30	Antibodies against Merozoite Surface Protein (Msp)-119 Are a Major Component of the Invasion-Inhibitory Response in Individuals Immune to Malaria. Journal of Experimental Medicine, 2001, 193, 1403-1412.	8.5	244
31	Development of the endoplasmic reticulum, mitochondrion and apicoplast during the asexual life cycle ofPlasmodium falciparum. Molecular Microbiology, 2005, 57, 405-419.	2.5	243
32	Plasmodium falciparum Heterochromatin Protein 1 Marks Genomic Loci Linked to Phenotypic Variation of Exported Virulence Factors. PLoS Pathogens, 2009, 5, e1000569.	4.7	243
33	The Molecular Basis of Erythrocyte Invasion by Malaria Parasites. Cell Host and Microbe, 2017, 22, 232-245.	11.0	242
34	Phenotypic variation of Plasmodium falciparum merozoite proteins directs receptor targeting for invasion of human erythrocytes. EMBO Journal, 2003, 22, 1047-1057.	7.8	235
35	Contribution of the pfmdr1 gene to antimalarial drug-resistance. Acta Tropica, 2005, 94, 181-190.	2.0	232
36	Reticulocyte-binding protein homologue 5 â€“ An essential adhesin involved in invasion of human erythrocytes by Plasmodium falciparum. International Journal for Parasitology, 2009, 39, 371-380.	3.1	222

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37	Interaction between Plasmodium falciparum Apical Membrane Antigen 1 and the Rhoptry Neck Protein Complex Defines a Key Step in the Erythrocyte Invasion Process of Malaria Parasites. Journal of Biological Chemistry, 2010, 285, 14815-14822.	3.4	216
38	Identification and Prioritization of Merozoite Antigens as Targets of Protective Human Immunity to Plasmodium falciparum Malaria for Vaccine and Biomarker Development. Journal of Immunology, 2013, 191, 795-809.	0.8	213
39	Sir2 Paralogues Cooperate to Regulate Virulence Genes and Antigenic Variation in Plasmodium falciparum. PLoS Biology, 2009, 7, e1000084.	5.6	211
40	Erythrocyte-binding antigen 175 mediates invasion in Plasmodium falciparum utilizing sialic acid-dependent and -independent pathways. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4796-4801.	7.1	209
41	That Was Then But This Is Now: Malaria Research in the Time of an Eradication Agenda. Science, 2010, 328, 862-866.	12.6	209
42	Isolate-specific S-antigen of Plasmodium falciparum contains a repeated sequence of eleven amino acids. Nature, 1983, 306, 751-756.	27.8	195
43	Targets of antibodies against Plasmodium falciparumâ€“infected erythrocytes in malaria immunity. Journal of Clinical Investigation, 2012, 122, 3227-3238.	8.2	187
44	Alveolins, a New Family of Cortical Proteins that Define the Protist Infrakingdom Alveolata. Molecular Biology and Evolution, 2008, 25, 1219-1230.	8.9	184
45	Association between Naturally Acquired Antibodies to Erythrocyteâ€Binding Antigens ofPlasmodium falciparumand Protection from Malaria and Highâ€Density Parasitemia. Clinical Infectious Diseases, 2010, 51, e50-e60.	5.8	184
46	Complement receptor 1 is the host erythrocyte receptor for Plasmodium falciparum PfRh4 invasion ligand. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17327-17332.	7.1	182
47	Molecular genetics and comparative genomics reveal RNAi is not functional in malaria parasites. Nucleic Acids Research, 2009, 37, 3788-3798.	14.5	177
48	Conserved sequences flank variable tandem repeats in two Î±-antigen genes of Plasmodium falciparum. Cell, 1985, 40, 775-783.	28.9	171
49	A Type II Pathway for Fatty Acid Biosynthesis Presents Drug Targets in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2003, 47, 297-301.	3.2	171
50	Essential Role of the PfRh5/PfRipr/CyRPA Complex during Plasmodium falciparum Invasion of Erythrocytes. Cell Host and Microbe, 2016, 20, 60-71.	11.0	170
51	Variation in use of erythrocyte invasion pathways by Plasmodium falciparum mediates evasion of human inhibitory antibodies. Journal of Clinical Investigation, 2008, 118, 342-351.	8.2	166
52	A Novel Erythrocyte Binding Antigen-175 Paralogue fromPlasmodium falciparum Defines a New Trypsin-resistant Receptor on Human Erythrocytes. Journal of Biological Chemistry, 2003, 278, 14480-14486.	3.4	165
53	Preerythrocytic, live-attenuated Plasmodium falciparum vaccine candidates by design. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13004-13009.	7.1	164
54	Role of the Plasmodium Export Element in Trafficking Parasite Proteins to the Infected Erythrocyte. Traffic, 2009, 10, 285-299.	2.7	164

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55	Allelic polymorphisms in apical membrane antigen-1 are responsible for evasion of antibody-mediated inhibition in Plasmodium falciparum. Molecular Microbiology, 2004, 52, 159-168.	2.5	163
56	Negative selection of Plasmodium falciparum reveals targeted gene deletion by double crossover recombination. International Journal for Parasitology, 2002, 32, 81-89.	3.1	161
57	Transfection of the Human Malaria Parasite <I>Plasmodium falciparum<I>. , 2004, 270, 263-276.		158
58	Genetic Diversity in Plasmodium falciparum. Advances in Parasitology, 1990, 29, 75-149.	3.2	157
59	Independent Translocation of Two Micronemal Proteins in Developing Plasmodium falciparum Merozoites. Infection and Immunity, 2002, 70, 5751-5758.	2.2	156
60	Functional conservation of the malaria vaccine antigen MSP-119across distantly related Plasmodium species. Nature Medicine, 2000, 6, 91-95.	30.7	154
61	Regulation of apicomplexan actin-based motility. Nature Reviews Microbiology, 2006, 4, 621-628.	28.6	151
62	A Subset of Plasmodium falciparum SERA Genes Are Expressed and Appear to Play an Important Role in the Erythrocytic Cycle. Journal of Biological Chemistry, 2002, 277, 47524-47532.	3.4	149
63	Erythrocyte and reticulocyte binding-like proteins of Plasmodium falciparum. Trends in Parasitology, 2012, 28, 23-30.	3.3	148
64	Reticulocyte-binding protein homologue 1 is required for sialic acid-dependent invasion into human erythrocytes by Plasmodium falciparum. Molecular Microbiology, 2004, 55, 162-174.	2.5	145
65	An opsin gene expressed in only one photoreceptor cell type of the Drosophila eye. Cell, 1986, 44, 705-710.	28.9	140
66	Selective Inhibition of a Two-step Egress of Malaria Parasites from the Host Erythrocyte. Journal of Biological Chemistry, 2003, 278, 37658-37663.	3.4	138
67	Skeleton-binding protein 1 functions at the parasitophorous vacuole membrane to traffic PfEMP1 to the Plasmodium falciparumâ€“infected erythrocyte surface. Blood, 2007, 109, 1289-1297.	1.4	138
68	The role of KAHRP domains in knob formation and cytoadherence of P falciparum-infected human erythrocytes. Blood, 2006, 108, 370-378.	1.4	135
69	A novel ligand from Plasmodium falciparum that binds to a sialic acid-containing receptor on the surface of human erythrocytes. Molecular Microbiology, 2001, 41, 47-58.	2.5	133
70	Reticulocyte and Erythrocyte Binding-Like Proteins Function Cooperatively in Invasion of Human Erythrocytes by Malaria Parasites. Infection and Immunity, 2011, 79, 1107-1117.	2.2	132
71	An EGF-like Protein Forms a Complex with PfRh5 and Is Required for Invasion of Human Erythrocytes by Plasmodium falciparum. PLoS Pathogens, 2011, 7, e1002199.	4.7	130
72	Biosynthesis, Localization, and Macromolecular Arrangement of the Plasmodium falciparum Translocon of Exported Proteins (PTEX). Journal of Biological Chemistry, 2012, 287, 7871-7884.	3.4	130

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73	Mefloquine targets the Plasmodium falciparum 80S ribosome to inhibit protein synthesis. Nature Microbiology, 2017, 2, 17031.	13.3	128
74	Role of Plasmepsin V in Export of Diverse Protein Families from the Plasmodium falciparum Exportome. Traffic, 2013, 14, 532-550.	2.7	127
75	The mode of action and the mechanism of resistance to antimalarial drugs. Acta Tropica, 1994, 56, 157-171.	2.0	124
76	Trafficking of the major virulence factor to the surface of transfected P falciparumâ€“infected erythrocytes. Blood, 2005, 105, 4078-4087.	1.4	124
77	Protein Kinase A Dependent Phosphorylation of Apical Membrane Antigen 1 Plays an Important Role in Erythrocyte Invasion by the Malaria Parasite. PLoS Pathogens, 2010, 6, e1000941.	4.7	124
78	PfSET10, a Plasmodium falciparum Methyltransferase, Maintains the Active var Gene in a Poised State during Parasite Division. Cell Host and Microbe, 2012, 11, 7-18.	11.0	124
79	Identification of Proteins from Plasmodium falciparum That Are Homologous to Reticulocyte Binding Proteins inPlasmodium vivax. Infection and Immunity, 2001, 69, 1084-1092.	2.2	123
80	Inhibition of Plasmepsin V Activity Demonstrates Its Essential Role in Protein Export, PfEMP1 Display, and Survival of Malaria Parasites. PLoS Biology, 2014, 12, e1001897.	5.6	121
81	Signal-mediated export of proteins from the malaria parasite to the host erythrocyte. Journal of Cell Biology, 2005, 171, 587-592.	5.2	120
82	Invasion by P. falciparum Merozoites Suggests a Hierarchy of Molecular Interactions. PLoS Pathogens, 2005, 1, e37.	4.7	119
83	Molecular and functional aspects of parasite invasion. Trends in Parasitology, 2004, 20, 567-574.	3.3	111
84	The Signal Sequence of Exported Protein-1 Directs the Green Fluorescent Protein to the Parasitophorous Vacuole of Transfected Malaria Parasites. Journal of Biological Chemistry, 2003, 278, 6532-6542.	3.4	110
85	A genetic screen for improved plasmid segregation reveals a role for Rep20 in the interaction of Plasmodium falciparum chromosomes. EMBO Journal, 2002, 21, 1231-1239.	7.8	106
86	VAR2CSA is the principal ligand for chondroitin sulfate A in two allogeneic isolates of Plasmodium falciparum. Molecular and Biochemical Parasitology, 2006, 148, 117-124.	1.1	105
87	A Malaria Parasite Formin Regulates Actin Polymerization and Localizes to the Parasite-Erythrocyte Moving Junction during Invasion. Cell Host and Microbe, 2008, 3, 188-198.	11.0	105
88	A Novel Family of Apicomplexan Glideosome-associated Proteins with an Inner Membrane-anchoring Role. Journal of Biological Chemistry, 2009, 284, 25353-25363.	3.4	105
89	Genesis of and Trafficking to the Maurer's Clefts of Plasmodium falciparum -Infected Erythrocytes. Molecular and Cellular Biology, 2006, 26, 4074-4085.	2.3	104
90	Plasmodium Nesting: Remaking the Erythrocyte from the Inside Out. Annual Review of Microbiology, 2013, 67, 243-269.	7.3	99

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91	Thioredoxin Reductase Is Essential for the Survival ofPlasmodium falciparum Erythrocytic Stages. Journal of Biological Chemistry, 2002, 277, 25970-25975.	3.4	97
92	Negative selection using yeast cytosine deaminase/uracil phosphoribosyl transferase in Plasmodium falciparum for targeted gene deletion by double crossover recombination. Molecular and Biochemical Parasitology, 2006, 150, 118-121.	1.1	97
93	Expression of P. falciparum var Genes Involves Exchange of the Histone Variant H2A.Z at the Promoter. PLoS Pathogens, 2011, 7, e1001292.	4.7	95
94	The Maurer's cleft protein MAHRP1 is essential for trafficking of PfEMP1 to the surface of Plasmodium falciparumâ€infected erythrocytes. Molecular Microbiology, 2008, 68, 1300-1314.	2.5	94
95	Conditional expression of apical membrane antigen 1 in <scp> P </scp> lasmodium falciparum shows it is required for erythrocyte invasion by merozoites. Cellular Microbiology, 2014, 16, 642-656.	2.1	94
96	Dual Plasmepsin-Targeting Antimalarial Agents Disrupt Multiple Stages of the Malaria Parasite Life Cycle. Cell Host and Microbe, 2020, 27, 642-658.e12.	11.0	94
97	Structural basis for plasmepsin V inhibition that blocks export of malaria proteins to human erythrocytes. Nature Structural and Molecular Biology, 2015, 22, 590-596.	8.2	93
98	Inhibition of Dendritic Cell Maturation by Malaria Is Dose Dependent and Does Not Require Plasmodium falciparum Erythrocyte Membrane Protein 1. Infection and Immunity, 2007, 75, 3621-3632.	2.2	90
99	Recruitment of Factor H as a Novel Complement Evasion Strategy for Blood-Stage Plasmodium falciparum Infection. Journal of Immunology, 2016, 196, 1239-1248.	0.8	90
100	Re-defining the Golgi complex in Plasmodium falciparum using the novel Golgi marker PfGRASP. Journal of Cell Science, 2005, 118, 5603-5613.	2.0	88
101	Functional analysis of proteins involved inPlasmodium falciparummerozoite invasion of red blood cells. FEBS Letters, 2000, 476, 84-88.	2.8	87
102	Quantitative in vivo Analyses Reveal Calcium-dependent Phosphorylation Sites and Identifies a Novel Component of the Toxoplasma Invasion Motor Complex. PLoS Pathogens, 2011, 7, e1002222.	4.7	85
103	Evidence That the Erythrocyte Invasion Ligand PfRh2 is a Target of Protective Immunity against Plasmodium falciparum Malaria. Journal of Immunology, 2010, 185, 6157-6167.	0.8	84
104	Molecular cloning of a gene from Plasmodium falciparum that codes for a protein sharing motifs found in adhesive molecules from mammals and Plasmodia. Molecular and Biochemical Parasitology, 1995, 74, 129-141.	1.1	83
105	Moving in and renovating: exporting proteins from Plasmodium into host erythrocytes. Nature Reviews Microbiology, 2010, 8, 617-621.	28.6	82
106	Electron tomography ofPlasmodium falciparummerozoites reveals core cellular events that underpin erythrocyte invasion. Cellular Microbiology, 2013, 15, 1457-1472.	2.1	82
107	Kinetic Flux Profiling Elucidates Two Independent Acetyl-CoA Biosynthetic Pathways in Plasmodium falciparum. Journal of Biological Chemistry, 2013, 288, 36338-36350.	3.4	79
108	Spatial association with PTEX complexes defines regions for effector export into Plasmodium falciparum-infected erythrocytes. Nature Communications, 2013, 4, 1415.	12.8	79

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109	The cytoplasmic domain of the Plasmodium falciparum ligand EBA-175 is essential for invasion but not protein trafficking. Journal of Cell Biology, 2003, 162, 317-327.	5.2	78
110	Plasmodium falciparumcentromeres display a unique epigenetic makeup and cluster prior to and during schizogony. Cellular Microbiology, 2012, 14, 1391-1401.	2.1	74
111	Structure of Plasmodium falciparum Rh5â€“CyRPAâ€“Ripr invasion complex. Nature, 2019, 565, 118-121.	27.8	74
112	Plasmodium falciparum Homologue of the Genes for Plasmodium vivax and Plasmodium yoeliiAdhesive Proteins, Which Is Transcribed but Not Translated. Infection and Immunity, 2001, 69, 3635-3645.	2.2	73
113	Transcription of multiple var genes by individual, trophozoite-stage Plasmodium falciparum cells expressing a chondroitin sulphate A binding phenotype. Molecular Microbiology, 2002, 43, 1285-1293.	2.5	72
114	Heterologous expression of active thymidylate synthase-dihydrofolate reductase from Plasmodium falciparum. Biochemistry, 1990, 29, 10779-10785.	2.5	71
115	Mutations in the pfmdr1, dhfr and dhps genes of Plasmodium falciparum are associated with in-vivo drug resistance in West Papua, Indonesia. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2001, 95, 43-49.	1.8	71
116	Potential epigenetic regulatory proteins localise to distinct nuclear sub-compartments in Plasmodium falciparum. International Journal for Parasitology, 2010, 40, 109-121.	3.1	71
117	Identification of Rhoptry Trafficking Determinants and Evidence for a Novel Sorting Mechanism in the Malaria Parasite Plasmodium falciparum. PLoS Pathogens, 2009, 5, e1000328.	4.7	70
118	Multiple Plasmodium falciparum Merozoite Surface Protein 1 Complexes Mediate Merozoite Binding to Human Erythrocytes. Journal of Biological Chemistry, 2016, 291, 7703-7715.	3.4	70
119	Discovery of GAMA, a Plasmodium falciparum Merozoite Micronemal Protein, as a Novel Blood-Stage Vaccine Candidate Antigen. Infection and Immunity, 2011, 79, 4523-4532.	2.2	69
120	Spatial Localisation of Actin Filaments across Developmental Stages of the Malaria Parasite. PLoS ONE, 2012, 7, e32188.	2.5	69
121	Export of virulence proteins by malaria-infected erythrocytes involves remodeling of host actin cytoskeleton. Blood, 2014, 124, 3459-3468.	1.4	68
122	Correct Promoter Control Is Needed for Trafficking of the Ring-Infected Erythrocyte Surface Antigen to the Host Cytosol in Transfected Malaria Parasites. Infection and Immunity, 2004, 72, 6095-6105.	2.2	66
123	The chromosomal organization of the Plasmodium falciparum var gene family is conserved. Molecular and Biochemical Parasitology, 1997, 87, 49-60.	1.1	65
124	Antibodies to Reticulocyte Binding Protein-Like Homologue 4 Inhibit Invasion of Plasmodium falciparum into Human Erythrocytes. Infection and Immunity, 2009, 77, 2427-2435.	2.2	65
125	Export of malaria proteins requires co-translational processing of the PEXEL motif independent of phosphatidylinositol-3-phosphate binding. Nature Communications, 2016, 7, 10470.	12.8	65
126	Defining the Antigenic Diversity of Plasmodium falciparum Apical Membrane Antigen 1 and the Requirements for a Multi-Allele Vaccine against Malaria. PLoS ONE, 2012, 7, e51023.	2.5	65

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127	Identification of highly-protective combinations of Plasmodium vivax recombinant proteins for vaccine development. ELife, 2017, 6, .	6.0	64
128	Multiple var gene transcripts are expressed in Plasmodium falciparum infected erythrocytes selected for adhesion. Molecular and Biochemical Parasitology, 2001, 114, 227-237.	1.1	62
129	Erythrocyte-Binding Antigens of Plasmodium falciparum Are Targets of Human Inhibitory Antibodies and Function To Evade Naturally Acquired Immunity. Journal of Immunology, 2013, 191, 785-794.	0.8	62
130	Delivery of the Malaria Virulence Protein PfEMP1 to the Erythrocyte Surface Requires Cholesterol-Rich Domains. Eukaryotic Cell, 2006, 5, 849-860.	3.4	60
131	Plasmepsin V cleaves malaria effector proteins in a distinct endoplasmic reticulum translocation interactome for export to the erythrocyte. Nature Microbiology, 2018, 3, 1010-1022.	13.3	59
132	A Conserved Region in the EBL Proteins Is Implicated in Microneme Targeting of the Malaria ParasitePlasmodium falciparum. Journal of Biological Chemistry, 2006, 281, 31995-32003.	3.4	58
133	An EBA175 homologue which is transcribed but not translated in erythrocytic stages of Plasmodium falciparum. Molecular and Biochemical Parasitology, 2001, 116, 55-63.	1.1	57
134	Evolution of malaria parasite plastid targeting sequences. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4781-4785.	7.1	57
135	Polymorphisms in Erythrocyte Binding Antigens 140 and 181 Affect Function and Binding but Not Receptor Specificity in Plasmodium falciparum. Infection and Immunity, 2009, 77, 1689-1699.	2.2	57
136	Plasmodium falciparum ligand binding to erythrocytes induce alterations in deformability essential for invasion. ELife, 2017, 6, .	6.0	57
137	Reticulocyte binding protein homologues are key adhesins during erythrocyte invasion byPlasmodium falciparum. Cellular Microbiology, 2009, 11, 1671-1687.	2.1	56
138	ANALYSIS OF PFCRT, PFMDR1, DHFR, AND DHPS MUTATIONS AND DRUG SENSITIVITIES IN PLASMODIUM FALCIPARUM ISOLATES FROM PATIENTS IN VIETNAM BEFORE AND AFTER TREATMENT WITH ARTEMISININ. American Journal of Tropical Medicine and Hygiene, 2003, 68, 350-356.	1.4	56
139	Current status of the Plasmodium falciparum genome project. Molecular and Biochemical Parasitology, 1996, 79, 1-12.	1.1	55
140	Truncation of merozoite surface protein 3 disrupts its trafficking and that of acidic-basic repeat protein to the surface of Plasmodium falciparum merozoites. Molecular Microbiology, 2002, 43, 1401-1411.	2.5	54
141	Crystal structure of PfRh5, an essential P. falciparum ligand for invasion of human erythrocytes. ELife, 2014, 3, .	6.0	53
142	Plasmodium falciparum Erythrocyte Membrane Protein-1 Specifically Suppresses Early Production of Host Interferon-Î³. Cell Host and Microbe, 2007, 2, 130-138.	11.0	52
143	Disruption of the Plasmodium falciparum liver-stage antigen-1 locus causes a differentiation defect in late liver-stage parasites. Cellular Microbiology, 2011, 13, 1250-1260.	2.1	51
144	The Plasmodium falciparum Erythrocyte Invasion Ligand Pfrh4 as a Target of Functional and Protective Human Antibodies against Malaria. PLoS ONE, 2012, 7, e45253.	2.5	51

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145	Vaccination with Conserved Regions of Erythrocyte-Binding Antigens Induces Neutralizing Antibodies against Multiple Strains of Plasmodium falciparum. PLoS ONE, 2013, 8, e72504.	2.5	51
146	The antimalarial drug, chloroquine, interacts with lactate dehydrogenase from Plasmodium falciparum. Molecular and Biochemical Parasitology, 1997, 88, 215-224.	1.1	50
147	Biochemical and Functional Analysis of Two Plasmodium falciparum Blood-Stage 6-Cys Proteins: P12 and P41. PLoS ONE, 2012, 7, e41937.	2.5	49
148	The mechanism of resistance to sulfa drugs in Plasmodium falciparum. Drug Resistance Updates, 1999, 2, 15-19.	14.4	48
149	Plasmodium falciparum uses a key functional site in complement receptor type-1 for invasion of human erythrocytes. Blood, 2011, 118, 1923-1933.	1.4	48
150	Trafficking determinants for PfEMP3 export and assembly under thePlasmodium falciparum-infected red blood cell membrane. Molecular Microbiology, 2005, 58, 1039-1053.	2.5	47
151	Protein targeting to destinations of the secretory pathway in the malaria parasite Plasmodium falciparum. Current Opinion in Microbiology, 2006, 9, 381-387.	5.1	47
152	Evidence that Plasmodium falciparum chromosome end clusters are cross-linked by protein and are the sites of both virulence gene silencing and activation. Molecular Microbiology, 2006, 62, 72-83.	2.5	47
153	Structural basis for inhibition of erythrocyte invasion by antibodies to Plasmodium falciparum protein CyRPA. ELife, 2017, 6, .	6.0	47
154	A Genome-wide Chromatin-associated Nuclear Peroxiredoxin from the Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 2011, 286, 11746-11755.	3.4	46
155	Transition State Mimetics of the Plasmodium Export Element Are Potent Inhibitors of Plasmepsin V from P. falciparum and P. vivax. Journal of Medicinal Chemistry, 2014, 57, 7644-7662.	6.4	46
156	The Merozoite Surface Protein 1 Complex Is a Platform for Binding to Human Erythrocytes by Plasmodium falciparum. Journal of Biological Chemistry, 2014, 289, 25655-25669.	3.4	45
157	Plasmodium falciparum Merozoite Invasion Is Inhibited by Antibodies that Target the PfRh2a and b Binding Domains. PLoS Pathogens, 2011, 7, e1002075.	4.7	43
158	Cryo-EM structure of an essential Plasmodium vivax invasion complex. Nature, 2018, 559, 135-139.	27.8	43
159	Plasmodium falciparum:Amplification and Overexpression ofpfmdr1Is Not Necessary for Increased Mefloquine Resistance. Experimental Parasitology, 1996, 83, 295-303.	1.2	41
160	Function of the plasmodium export element can be blocked by green fluorescent protein. Molecular and Biochemical Parasitology, 2005, 142, 258-262.	1.1	41
161	Association of antibodies to Plasmodium falciparum reticulocyte binding protein homolog 5 with protection from clinical malaria. Frontiers in Microbiology, 2014, 5, 314.	3.5	41
162	Plasmodium falciparum Adhesins Play an Essential Role in Signalling and Activation of Invasion into Human Erythrocytes. PLoS Pathogens, 2015, 11, e1005343.	4.7	41

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163	Nucleotide binding properties of a P-glycoprotein homologue from Plasmodium falciparum. Molecular and Biochemical Parasitology, 1993, 58, 269-276.	1.1	40
164	Cellular adhesive phenomena in apicomplexan parasites of red blood cells. Veterinary Parasitology, 2005, 132, 273-295.	1.8	40
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