

Jacquin C Niles

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,537
citations

279798

23
h-index

315739

38
g-index

48
all docs

48
docs citations

48
times ranked

2862
citing authors

#	ARTICLE	IF	CITATIONS
1	A Genome-wide CRISPR Screen in Toxoplasma Identifies Essential Apicomplexan Genes. Cell, 2016, 166, 1423-1435.e12.	28.9	667
2	Efficient CRISPR-Cas9-mediated genome editing in Plasmodium falciparum. Nature Methods, 2014, 11, 915-918.	19.0	205
3	Peroxynitrite-induced oxidation and nitration products of guanine and 8-oxoguanine: Structures and mechanisms of product formation. Nitric Oxide - Biology and Chemistry, 2006, 14, 109-121.	2.7	173
4	Synthetic RNA-protein modules integrated with native translation mechanisms to control gene expression in malaria parasites. Nature Communications, 2016, 7, 10727.	12.8	157
5	Plasmepsins IX and X are essential and druggable mediators of malaria parasite egress and invasion. Science, 2017, 358, 518-522.	12.6	152
6	EXP2 is a nutrient-permeable channel in the vacuolar membrane of Plasmodium and is essential for protein export via PTEX. Nature Microbiology, 2018, 3, 1090-1098.	13.3	106
7	Combined confocal Raman and quantitative phase microscopy system for biomedical diagnosis. Biomedical Optics Express, 2011, 2, 2484.	2.9	85
8	Spiroiminodihydantoin and Guanidinohydantoin Are the Dominant Products of 8-Oxoguanosine Oxidation at Low Fluxes of Peroxynitrite: Mechanistic Studies with 18O. Chemical Research in Toxicology, 2004, 17, 1510-1519.	3.3	77
9	Identification of malaria parasite-infected red blood cell surface aptamers by inertial microfluidic SELEX (I-SELEX). Scientific Reports, 2015, 5, 11347.	3.3	57
10	The chaperonin TRiC forms an oligomeric complex in the malaria parasite cytosol. Cellular Microbiology, 2017, 19, e12719.	2.1	56
11	Quantification of labile heme in live malaria parasites using a genetically encoded biosensor. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2068-E2076.	7.1	56
12	ATG8 Is Essential Specifically for an Autophagy-Independent Function in Apicoplast Biogenesis in Blood-Stage Malaria Parasites. MBio, 2018, 9, .	4.1	56
13	Inhibition of Resistance-Refractory P. falciparum Kinase PKG Delivers Prophylactic, Blood Stage, and Transmission-Blocking Antiplasmodial Activity. Cell Chemical Biology, 2020, 27, 806-816.e8.	5.2	56
14	MalDA, Accelerating Malaria Drug Discovery. Trends in Parasitology, 2021, 37, 493-507.	3.3	51
15	Plasmodium Niemann-Pick type C1-related protein is a druggable target required for parasite membrane homeostasis. ELife, 2019, 8, .	6.0	51
16	Ancient human sialic acid variant restricts an emerging zoonotic malaria parasite. Nature Communications, 2016, 7, 11187.	12.8	48
17	Small molecule inhibition of apicomplexan FtsH1 disrupts plastid biogenesis in human pathogens. ELife, 2017, 6, .	6.0	47
18	Versatile control of Plasmodium falciparum gene expression with an inducible protein-RNA interaction. Nature Communications, 2014, 5, 5329.	12.8	44

#	ARTICLE	IF	CITATIONS
19	Chemogenomics identifies acetyl-coenzyme A synthetase as a target for malaria treatment and prevention. <i>Cell Chemical Biology</i> , 2022, 29, 191-201.e8.	5.2	39
20	Direct and specific chemical control of eukaryotic translation with a synthetic RNA-protein interaction. <i>Nucleic Acids Research</i> , 2012, 40, e64-e64.	14.5	38
21	Prioritization of Molecular Targets for Antimalarial Drug Discovery. <i>ACS Infectious Diseases</i> , 2021, 7, 2764-2776.	3.8	35
22	Complex nutrient channel phenotypes despite Mendelian inheritance in a <i>Plasmodium falciparum</i> genetic cross. <i>PLoS Pathogens</i> , 2020, 16, e1008363.	4.7	31
23	An integrated platform for genome engineering and gene expression perturbation in <i>Plasmodium falciparum</i> . <i>Scientific Reports</i> , 2021, 11, 342.	3.3	29
24	Assessment of Biological Role and Insight into Druggability of the <i>Plasmodium falciparum</i> Protease Plasmeprin V. <i>ACS Infectious Diseases</i> , 2020, 6, 738-746.	3.8	25
25	The antimalarial MMV688533 provides potential for single-dose cures with a high barrier to <i>Plasmodium falciparum</i> parasite resistance. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	25
26	Reaction hijacking of tyrosine tRNA synthetase as a new whole-of-life-cycle antimalarial strategy. <i>Science</i> , 2022, 376, 1074-1079.	12.6	25
27	Phosphatidylinositol 3-phosphate and Hsp70 protect <i>Plasmodium falciparum</i> from heat-induced cell death. <i>ELife</i> , 2020, 9, .	6.0	20
28	An integrated strategy for efficient vector construction and multi-gene expression in <i>Plasmodium falciparum</i> . <i>Malaria Journal</i> , 2013, 12, 373.	2.3	18
29	Repositioning and Characterization of 1-(Pyridin-4-yl)pyrrolidin-2-one Derivatives as <i>Plasmodium</i> Cytoplasmic Prolyl-tRNA Synthetase Inhibitors. <i>ACS Infectious Diseases</i> , 2021, 7, 1680-1689.	3.8	14
30	The <i>Plasmodium falciparum</i> ABC transporter ABCI3 confers parasite strain-dependent pleiotropic antimalarial drug resistance. <i>Cell Chemical Biology</i> , 2022, 29, 824-839.e6.	5.2	14
31	Mass Spectrometric Identification of 4-Hydroxy-2,5-dioxo-imidazolidine-4-carboxylic Acid during Oxidation of 8-Oxoguanosine by Peroxynitrite and KHSO ₅ /CoCl ₂ . <i>Chemical Research in Toxicology</i> , 2004, 17, 1501-1509.	3.3	13
32	Preclinical characterization and target validation of the antimalarial pantothenamide MMV693183. <i>Nature Communications</i> , 2022, 13, 2158.	12.8	13
33	Functional genomics of RAP proteins and their role in mitoribosome regulation in <i>Plasmodium falciparum</i> . <i>Nature Communications</i> , 2022, 13, 1275.	12.8	12
34	Targeted Covalent Inhibition of <i>Plasmodium</i> FK506 Binding Protein 35. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2131-2138.	2.8	11
35	Inducible Control of Subcellular RNA Localization Using a Synthetic Protein-RNA Aptamer Interaction. <i>PLoS ONE</i> , 2012, 7, e46868.	2.5	6
36	Selective expression of variant surface antigens enables <i>Plasmodium falciparum</i> to evade immune clearance in vivo. <i>Nature Communications</i> , 2022, 13, .	12.8	5

#	ARTICLE	IF	CITATIONS
37	GeneTargeter: Automated <i>In Silico</i> Design for Genome Editing in the Malaria Parasite, <i>Plasmodium falciparum</i> . CRISPR Journal, 2022, 5, 155-164.	2.9	3
38	A newly characterized malaria antigen on erythrocyte and merozoite surfaces induces parasite inhibitory antibodies. Journal of Experimental Medicine, 2021, 218, .	8.5	2
39	Malarial Parasites Accumulate Labile Zinc Pools. Chemistry and Biology, 2012, 19, 660-661.	6.0	1
40	Deconvolution of Microarray Data Predicts Transcriptionally Regulated Protein Kinases of <i>Plasmodium falciparum</i> . , 2011, , .		0