Gordon A Awandare

List of Publications by Year
in descending order

127 papers	2,808 citations	186265 28 h-index	254184 43 g-index
136 all docs	136 docs citations	136 times ranked	3871 citing authors

#	Article	IF	Citations
1	A SARS-CoV-2 nucleocapsid ELISA represents a low-cost alternative to lateral flow testing for community screening in LMI countries. Journal of Infection, 2022, 84, 48-55.	3.3	7
2	Hearing loss in Africa: current genetic profile. Human Genetics, 2022, 141, 505-517.	3.8	6
3	Age Estimate of GJB2-p.(Arg143Trp) Founder Variant in Hearing Impairment in Ghana, Suggests Multiple Independent Origins across Populations. Biology, 2022, 11, 476.	2.8	5
4	A longitudinal two-year survey of the prevalence of trypanosomes in domestic cattle in Ghana by massively parallel sequencing of barcoded amplicons. PLoS Neglected Tropical Diseases, 2022, 16, e0010300.	3.0	4
5	Exome sequencing of families from Ghana reveals known and candidate hearing impairment genes. Communications Biology, 2022, 5, 369.	4.4	8
6	The health-trash nexus in challenging environments: A spatial mixed methods analysis of Accra, Ghana. Applied Geography, 2022, 143, 102701.	3.7	6
7	Genetic diversity of SARS-CoV-2 infections in Ghana from 2020-2021. Nature Communications, 2022, 13, 2494.	12.8	22
8	Analysis and validation of silica-immobilised BST polymerase in loop-mediated isothermal amplification (LAMP) for malaria diagnosis. Analytical and Bioanalytical Chemistry, 2022, 414, 6309-6326.	3.7	8
9	Detection of SARS-CoV-2 intra-host recombination during superinfection with Alpha and Epsilon variants in New York City. Nature Communications, 2022, 13, .	12.8	22
10	Localization and function of a Plasmodium falciparum protein (PF3D7_1459400) during erythrocyte invasion. Experimental Biology and Medicine, 2021, 246, 10-19.	2.4	0
11	High-throughput genotyping assays for identification of glycophorin B deletion variants in population studies. Experimental Biology and Medicine, 2021, 246, 916-928.	2.4	2
12	Genomic analysis of SARS-CoV-2 reveals local viral evolution in Ghana. Experimental Biology and Medicine, 2021, 246, 960-970.	2.4	20
13	Plasmodium falciparum Malaria Parasites in Ghana Show Signatures of Balancing Selection at Artemisinin Resistance Predisposing Background Genes. Evolutionary Bioinformatics, 2021, 17, 117693432199964.	1.2	4
14	An open dataset of Plasmodium falciparum genome variation in 7,000 worldwide samples. Wellcome Open Research, 2021, 6, 42.	1.8	97
15	Investigations of Kidney Dysfunction-Related Gene Variants in Sickle Cell Disease Patients in Cameroon (Sub-Saharan Africa). Frontiers in Genetics, 2021, 12, 595702.	2.3	4
16	Blood donor variability is a modulatory factor for P. falciparum invasion phenotyping assays. Scientific Reports, 2021, 11, 7129.	3.3	4
17	Helicobacter Pylori Variants with ABC-Type Tyrosine Phosphorylation Motif in Gastric Biopsies of Ghanaian Patients. BioMed Research International, 2021, 2021, 1-7.	1.9	2
18	Breast cancer in sub-Saharan Africa: The current state and uncertain future. Experimental Biology and Medicine, 2021, 246, 1377-1387.	2.4	27

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19	Plasmodium malariae and Plasmodium falciparum comparative susceptibility to antimalarial drugs in Mali. Journal of Antimicrobial Chemotherapy, 2021, 76, 2079-2087.	3.0	4
20	Further confirmation of the association of SLC12A2 with non-syndromic autosomal-dominant hearing impairment. Journal of Human Genetics, 2021, 66, 1169-1175.	2.3	8
21	An open dataset of Plasmodium falciparum genome variation in 7,000 worldwide samples. Wellcome Open Research, 2021, 6, 42.	1.8	51
22	Development of Cooperative Primer-Based Real-Time PCR Assays for the Detection of Plasmodium malariae and Plasmodium ovale. Journal of Molecular Diagnostics, 2021, 23, 1393-1403.	2.8	11
23	Predictors of COVID-19 epidemics in countries of the World Health Organization African Region. Nature Medicine, 2021, 27, 2041-2047.	30.7	27
24	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. Science, 2021, 374, 423-431.	12.6	144
25	Ex Vivo Plasmodium malariae Culture Method for Antimalarial Drugs Screen in the Field. ACS Infectious Diseases, 2021, 7, 3025-3033.	3.8	4
26	Some novel antileishmanial compounds inhibit normal cell cycle progression of Leishmania donovani promastigotes and exhibits pro-oxidative potential. PLoS ONE, 2021, 16, e0258996.	2.5	0
27	Polydopamine-functionalized graphene nanoplatelet smart conducting electrode for bio-sensing applications. Arabian Journal of Chemistry, 2020, 13, 1669-1677.	4.9	13
28	Graphene nanoplatelet-based sensor for the detection of dopamine and N-acetyl-p-aminophenol in urine. Arabian Journal of Chemistry, 2020, 13, 3218-3225.	4.9	10
29	Cell trace far-red is a suitable erythrocyte dye for multi-color Plasmodium falciparum invasion phenotyping assays. Experimental Biology and Medicine, 2020, 245, 11-20.	2.4	2
30	Comparison of leucocyte profiles between healthy children and those with asymptomatic and symptomatic Plasmodium falciparum infections. Malaria Journal, 2020, 19, 364.	2.3	7
31	Machine learning approaches classify clinical malaria outcomes based on haematological parameters. BMC Medicine, 2020, 18, 375.	5.5	17
32	Appreciating the complexity of localized malaria risk in Ghana: Spatial data challenges and solutions. Health and Place, 2020, 64, 102382.	3.3	11
33	Intrinsic multiplication rate variation and plasticity of human blood stage malaria parasites. Communications Biology, 2020, 3, 624.	4.4	16
34	Connexin Genes Variants Associated with Non-Syndromic Hearing Impairment: A Systematic Review of the Global Burden. Life, 2020, 10, 258.	2.4	14
35	GJB4 and GJC3 variants in non-syndromic hearing impairment in Ghana. Experimental Biology and Medicine, 2020, 245, 1355-1367.	2.4	4
36	Comparative analysis of asexual and sexual stage Plasmodium falciparum development in different red blood cell types. Malaria Journal, 2020, 19, 200.	2.3	6

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37	Recent Advances in the Development of Biosensors for Malaria Diagnosis. Sensors, 2020, 20, 799.	3.8	39
38	Analysis of Plasmodium falciparum Rh2b deletion polymorphism across different transmission areas. Scientific Reports, 2020, 10, 1498.	3.3	3
39	Investigating a Plasmodium falciparum erythrocyte invasion phenotype switch at the whole transcriptome level. Scientific Reports, 2020, 10, 245.	3.3	12
40	Elucidating the possible mechanism of action of some pathogen box compounds against Leishmania donovani. PLoS Neglected Tropical Diseases, 2020, 14, e0008188.	3.0	5
41	Plasmodium falciparum Merozoite Associated Armadillo Protein (PfMAAP) Is Apically Localized in Free Merozoites and Antibodies Are Associated With Reduced Risk of Malaria. Frontiers in Immunology, 2020, 11, 505.	4.8	2
42	COVID-19: Time for precision epidemiology. Experimental Biology and Medicine, 2020, 245, 677-679.	2.4	19
43	Molecular Characterization and Immuno-Reactivity Patterns of a Novel Plasmodium falciparum Armadillo-Type Repeat Protein, PfATRP. Frontiers in Cellular and Infection Microbiology, 2020, 10, 114.	3.9	1
44	Science advisers around the world on 2020. Nature, 2020, 588, 586-588.	27.8	7
45	Enhancing Genetic Medicine: Rapid and Cost-Effective Molecular Diagnosis for a GJB2 Founder Mutation for Hearing Impairment in Ghana. Genes, 2020, 11, 132.	2.4	5
46	Epilepsy Research in Mali: A Pilot Pharmacokinetics Study on First-Line Antiepileptic Drug Treatment. Journal of Epilepsy Research, 2020, 10, 31-39.	0.4	0
47	Assessment of antimalarial drug resistant markers in asymptomatic Plasmodium falciparum infections after 4 years of indoor residual spraying in Northern Ghana. PLoS ONE, 2020, 15, e0233478.	2.5	6
48	Antibody Reactivity to Merozoite Antigens in Ghanaian Adults Correlates With Growth Inhibitory Activity Against Plasmodium falciparum in Culture. Open Forum Infectious Diseases, 2019, 6, ofz254.	0.9	6
49	GJB2 and GJB6 Mutations in Non-Syndromic Childhood Hearing Impairment in Ghana. Frontiers in Genetics, 2019, 10, 841.	2.3	26
50	Current and Novel Approaches in Influenza Management. Vaccines, 2019, 7, 53.	4.4	14
51	Impact of malaria and hepatitis B co-infection on clinical and cytokine profiles among pregnant women. PLoS ONE, 2019, 14, e0215550.	2.5	12
52	SMIM1 at a glance; discovery, genetic basis, recent progress and perspectives. Parasite Epidemiology and Control, 2019, 5, e00101.	1.8	2
53	Validation of two parent-reported autism spectrum disorders screening tools M-CHAT-R and SCQ in Bamako, Mali. ENeurologicalSci, 2019, 15, 100188.	1.3	15
54	Prevalence of malaria and hepatitis B among pregnant women in Northern Ghana: Comparing RDTs with PCR. PLoS ONE, 2019, 14, e0210365.	2.5	33

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55	Immune Responses to the Sexual Stages of Plasmodium falciparum Parasites. Frontiers in Immunology, 2019, 10, 136.	4.8	17
56	EBM and SEBM Inaugurates its African Global Editor and Office. Experimental Biology and Medicine, 2019, 244, 1607-1607.	2.4	0
57	High cases of submicroscopic Plasmodium falciparum infections in a suburban population of Lagos, Nigeria. Malaria Journal, 2019, 18, 433.	2.3	14
58	Functional Characterization of Plasmodium falciparum Surface-Related Antigen as a Potential Blood-Stage Vaccine Target. Journal of Infectious Diseases, 2018, 218, 778-790.	4.0	10
59	Plasmodium falciparum strains spontaneously switch invasion phenotype in suspension culture. Scientific Reports, 2018, 8, 5782.	3.3	28
60	Building Sustainable Local Capacity for Global Health Research in West Africa. Annals of Global Health, 2018, 82, 1010.	2.0	23
61	Evaluating antidisease immunity to malaria and implications for vaccine design. Immunology, 2018, 153, 423-434.	4.4	24
62	Highlights on the Application of Genomics and Bioinformatics in the Fight Against Infectious Diseases: Challenges and Opportunities in Africa. Frontiers in Genetics, 2018, 9, 575.	2.3	23
63	Schizont transcriptome variation among clinical isolates and laboratory-adapted clones of the malaria parasite Plasmodium falciparum. BMC Genomics, 2018, 19, 894.	2.8	28
64	Amplification of GTP-cyclohydrolase 1 gene in Plasmodium falciparum isolates with the quadruple mutant of dihydrofolate reductase and dihydropteroate synthase genes in Ghana. PLoS ONE, 2018, 13, e0204871.	2.5	9
65	Multi-population genomic analysis of malaria parasites indicates local selection and differentiation at the gdv1 locus regulating sexual development. Scientific Reports, 2018, 8, 15763.	3.3	40
66	Chitosan Composites Synthesized Using Acetic Acid and Tetraethylorthosilicate Respond Differently to Methylene Blue Adsorption. Polymers, 2018, 10, 466.	4.5	24
67	A barcode of multilocus nuclear DNA identifies genetic relatedness in pre- and post-Artemether/Lumefantrine treated Plasmodium falciparum in Nigeria. BMC Infectious Diseases, 2018, 18, 392.	2.9	10
68	Genomics and Epigenomics of Congenital Heart Defects: Expert Review and Lessons Learned in Africa. OMICS A Journal of Integrative Biology, 2018, 22, 301-321.	2.0	18
69	Plasmodium falciparum malaria cases detected for prompt treatment by rapid diagnostic tests in the Ho Teaching Hospital of the Volta Region of Ghana. Parasite Epidemiology and Control, 2018, 3, e00072.	1.8	6
70	Detection of Dengue Virus among Children with Suspected Malaria, Accra, Ghana. Emerging Infectious Diseases, 2018, 24, 1544-1547.	4.3	35
71	Environmental health risks and benefits of the use of mosquito coils as malaria prevention and control strategy. Malaria Journal, 2018, 17, 265.	2.3	18
72	Kinetics of antibody responses to PfRH5-complex antigens in Ghanaian children with Plasmodium falciparum malaria. PLoS ONE, 2018, 13, e0198371.	2.5	26

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73	Local diagnostics kits for Africa being developed in Ghana. Nature, 2018, 559, 181-181.	27.8	0
74	Evaluation of hematological indices of childhood illnesses in Tamale Metropolis of Ghana. Journal of Clinical Laboratory Analysis, 2018, 32, e22582.	2.1	6
75	Prevalence of chloroquine and antifolate drug resistance alleles in Plasmodium falciparum clinical isolates from three areas in Ghana. AAS Open Research, 2018, 1, 1.	1.5	10
76	Investigating the Conformation of S100Î² Protein Under Physiological Parameters Using Computational Modeling: A Clue for Rational Drug Design. Open Biomedical Engineering Journal, 2018, 12, 36-50.	0.5	3
77	Gametocyte Development and Carriage in Ghanaian Individuals with Uncomplicated Plasmodium falciparum Malaria. American Journal of Tropical Medicine and Hygiene, 2018, 99, 57-64.	1.4	7
78	Investigating the Conformation of S100Î² Protein Under Physiological Parameters Using Computational Modeling: A Clue for Rational Drug Design. Open Biomedical Engineering Journal, 2018, 12, 73-73.	0.5	0
79	Prevalence of chloroquine and antifolate drug resistance alleles in Plasmodium falciparum clinical isolates from three areas in Ghana. AAS Open Research, 2018, 1, 1.	1.5	9
80	Sickle cell trait is associated with controlled levels of haem and mild proinflammatory response during acute malaria infection. Clinical and Experimental Immunology, 2017, 188, 283-292.	2.6	5
81	Antimalarial activity of Malaria Box Compounds against Plasmodium falciparum clinical isolates. International Journal for Parasitology: Drugs and Drug Resistance, 2017, 7, 399-406.	3.4	8
82	Enzyme-based amperometric galactose biosensors: a review. Mikrochimica Acta, 2017, 184, 3663-3671.	5.0	44
83	Public Health Burden of Hearing Impairment and the Promise of Genomics and Environmental Research: A Case Study in Ghana, Africa. OMICS A Journal of Integrative Biology, 2017, 21, 638-646.	2.0	13
84	Recent uptake of intermittent preventive treatment during pregnancy with sulfadoxineâ€“pyrimethamine is associated with increased prevalence of Pfdhfr mutations in Bobo-Dioulasso, Burkina Faso. Malaria Journal, 2017, 16, 38.	2.3	21
85	Serum biochemical parameters and cytokine profiles associated with natural African trypanosome infections in cattle. Parasites and Vectors, 2017, 10, 312.	2.5	14
86	Assessing the impact of differences in malaria transmission intensity on clinical and haematological indices in children with malaria. Malaria Journal, 2017, 16, 96.	2.3	26
87	Patterns of inflammatory responses and parasite tolerance vary with malaria transmission intensity. Malaria Journal, 2017, 16, 145.	2.3	46
88	Expression, Purification, and Monitoring of Conformational Changes of hCB2 TMH67H8 in Different Membrane-Mimetic Lipid Mixtures Using Circular Dichroism and NMR Techniques. Membranes, 2017, 7, 10.	3.0	2
89	A Disposable Amperometric Sensor Based on High-Performance PEDOT:PSS/Ionic Liquid Nanocomposite Thin Film-Modified Screen-Printed Electrode for the Analysis of Catechol in Natural Water Samples. Sensors, 2017, 17, 1716.	3.8	21
90	Recent Progress in the Development of Diagnostic Tests for Malaria. Diagnostics, 2017, 7, 54.	2.6	52

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91	Variations in the quality of malaria-specific antibodies with transmission intensity in a seasonal malaria transmission area of Northern Ghana. PLoS ONE, 2017, 12, e0185303.	2.5	17
92	Investigating the Influence of Temperature on the Kaolinite-Base Synthesis of Zeolite and Urease Immobilization for the Potential Fabrication of Electrochemical Urea Biosensors. Sensors, 2017, 17, 1831.	3.8	20
93	Antifungal and Anti-Proliferative Effects of Zeolites A and X on Yeast Pathogenic and Cancer Cells In Vitro. Journal of Biomaterials and Tissue Engineering, 2017, 7, 544-555.	0.1	6
94	Experimental demonstration of the possible role of Acanthamoeba polyphaga in the infection and disease progression in Buruli Ulcer (BU) using ICR mice. PLoS ONE, 2017, 12, e0172843.	2.5	13
95	High concordance of Pfdhfr and Pfdhps genotypes between matched peripheral and placental isolates of delivered women in Bobo-Dioulasso, Burkina Faso. Annals of Parasitology, 2017, 63, 111-116.	0.1	1
96	Febrile illness diagnostics and the malaria-industrial complex: a socio-environmental perspective. BMC Infectious Diseases, 2016, 16, 683.	2.9	26
97	Malaria Vaccine Development: Focusing Field Erythrocyte Invasion Studies on Phenotypic Diversity. Trends in Parasitology, 2016, 32, 274-283.	3.3	12
98	Genomic epidemiology of artemisinin resistant malaria. ELife, 2016, 5, .	6.0	242
99	Evidence of Recent Dengue Exposure Among Malaria Parasite-Positive Children in Three Urban Centers in Ghana. American Journal of Tropical Medicine and Hygiene, 2015, 92, 497-500.	1.4	36
100	Variation in Plasmodium falciparum Erythrocyte Invasion Phenotypes and Merozoite Ligand Gene Expression across Different Populations in Areas of Malaria Endemicity. Infection and Immunity, 2015, 83, 2575-2582.	2.2	35
101	Analysis of Erythrocyte Invasion Mechanisms ofPlasmodium falciparumClinical Isolates Across 3 Malaria-Endemic Areas in Ghana. Journal of Infectious Diseases, 2015, 212, 1288-1297.	4.0	31
102	Comparison of genomic signatures of selection on Plasmodium falciparum between different regions of a country with high malaria endemicity. BMC Genomics, 2015, 16, 527.	2.8	34
103	Deconstructing â€œmalariaâ€• West Africa as the next front for dengue fever surveillance and control. Acta Tropica, 2014, 134, 58-65.	2.0	58
104	Associations between Red Cell Polymorphisms and Plasmodium falciparum Infection in the Middle Belt of Ghana. PLoS ONE, 2014, 9, e112868.	2.5	24
105	Insights into deregulated TNF and IL-10 production in malaria: implications for understanding severe malarial anaemia. Malaria Journal, 2012, 11, 253.	2.3	34
106	Plasmodium falciparum field isolates use complement receptor 1 (CR1) as a receptor for invasion of erythrocytes. Molecular and Biochemical Parasitology, 2011, 177, 57-60.	1.1	28
107	Mechanisms of erythropoiesis inhibition by malarial pigment and malariaâ€induced proinflammatory mediators in an in vitro model. American Journal of Hematology, 2011, 86, 155-162.	4.1	39
108	Complement Receptor 1 Is a Sialic Acid-Independent Erythrocyte Receptor of Plasmodium falciparum. PLoS Pathogens, 2010, 6, e1000968.	4.7	86

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109	Suppression of a Novel Hematopoietic Mediator in Children with Severe Malarial Anemia. Infection and Immunity, 2009, 77, 3864-3871.	2.2	21
110	MIF(Macrophage Migration Inhibitory Factor) Promoter Polymorphisms and Susceptibility to Severe Malarial Anemia. Journal of Infectious Diseases, 2009, 200, 629-637.	4.0	70
111	Naturally acquired hemozoin by monocytes promotes suppression of RANTES in children with malarial anemia through an IL-10-dependent mechanism. Microbes and Infection, 2009, 11, 811-819.	1.9	28
112	Increased circulating interleukin (IL)-23 in children with malarial anemia: In vivo and in vitro relationship with co-regulatory cytokines IL-12 and IL-10. Clinical Immunology, 2008, 126, 211-221.	3.2	36
113	Polymorphic Variability in the Interleukin (IL)â€“1Î² Promoter Conditions Susceptibility to Severe Malarial Anemia and Functional Changes in ILâ€1Î² Production. Journal of Infectious Diseases, 2008, 198, 1219-1226.	4.0	44
114	Role of Monocyte-Acquired Hemozoin in Suppression of Macrophage Migration Inhibitory Factor in Children with Severe Malarial Anemia. Infection and Immunity, 2007, 75, 201-210.	2.2	74
115	Complement activation in Ghanaian children with severe Plasmodium falciparum malaria. Malaria Journal, 2007, 6, 165.	2.3	30
116	HIGHER PRODUCTION OF PERIPHERAL BLOOD MACROPHAGE MIGRATION INHIBITORY FACTOR IN HEALTHY CHILDREN WITH A HISTORY OF MILD MALARIA RELATIVE TO CHILDREN WITH A HISTORY OF SEVERE MALARIA. American Journal of Tropical Medicine and Hygiene, 2007, 76, 1033-1036.	1.4	18
117	Higher production of peripheral blood macrophage migration inhibitory factor in healthy children with a history of mild malaria relative to children with a history of severe malaria. American Journal of Tropical Medicine and Hygiene, 2007, 76, 1033-6.	1.4	10
118	Decreased circulating macrophage migration inhibitory factor (MIF) protein and blood mononuclear cell MIF transcripts in children with Plasmodium falciparum malaria. Clinical Immunology, 2006, 119, 219-225.	3.2	47
119	A macrophage migration inhibitory factor promoter polymorphism is associated with high-density parasitemia in children with malaria. Genes and Immunity, 2006, 7, 568-575.	4.1	31
120	Increased Levels of Inflammatory Mediators in Children with SeverePlasmodium falciparumMalaria with Respiratory Distress. Journal of Infectious Diseases, 2006, 194, 1438-1446.	4.0	86
121	Differential Regulation of Î²-Chemokines in Children with Plasmodium falciparum Malaria. Infection and Immunity, 2005, 73, 4190-4197.	2.2	85
122	An initiative to develop a public engagement ecosystem in Ghana: a case of WACCBIPâ€™s High Schoolsâ€™ Engagement Programme. AAS Open Research, 0, 4, 30.	1.5	0
123	Trends of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) antibody prevalence in selected regions across Ghana. Wellcome Open Research, 0, 6, 173.	1.8	16
124	Assessing naturally acquired immune response and malaria treatment outcomes in Lagos, Nigeria. AAS Open Research, 0, 1, 6.	1.5	1
125	Low COVID-19 impact in Africa: The multifactorial Nexus. AAS Open Research, 0, 4, 47.	1.5	4
126	Autism seminary for public engagement: evaluation of knowledge and attitudes of traditional medical practitioners in Mali. AAS Open Research, 0, 2, 21.	1.5	2

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127	Explaining the unexpected COVID-19 trends and potential impact across Africa.. F1000Research, 0, 10, 1177.	1.6	0