Daniel Gyamfi Amoako

List of Publications by Year
in descending order

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85	5,634	331259	123241
papers	citations	21 h-index	61 g-index

103	103	103	6047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 2022, 603, 679-686.	13.7	1,210
2	Omicron extensively but incompletely escapes Pfizer BNT162b2 neutralization. Nature, 2022, 602, 654-656.	13.7	928
3	Early assessment of the clinical severity of the SARS-CoV-2 omicron variant in South Africa: a data linkage study. Lancet, The, 2022, 399, 437-446.	6.3	818
4	Emergence of SARS-CoV-2 Omicron lineages BA.4 and BA.5 in South Africa. Nature Medicine, 2022, 28, 1785-1790.	15.2	456
5	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. Science, 2021, 374, 423-431.	6.0	144
6	Omicron extensively but incompletely escapes Pfizer BNT162b2 neutralization. Nature, 0, , .	13.7	104
7	Carbonyl Cyanide m-Chlorophenylhydrazine (CCCP) Reverses Resistance to Colistin, but Not to Carbapenems and Tigecycline in Multidrug-Resistant Enterobacteriaceae. Frontiers in Microbiology, 2017, 8, 228.	1.5	94
8	Selection Analysis Identifies Clusters of Unusual Mutational Changes in Omicron Lineage BA.1 That Likely Impact Spike Function. Molecular Biology and Evolution, 2022, 39, .	3.5	84
9	Diversity and Proliferation of Metallo-Î²-Lactamases: a Clarion Call for Clinically Effective Metallo-Î²-Lactamase Inhibitors. Applied and Environmental Microbiology, 2018, 84, .	1.4	71
10	Omicron infection enhances Delta antibody immunity in vaccinated persons. Nature, 2022, 607, 356-359.	13.7	66
11	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 0, , .	13.7	61
12	Genomic and phenotypic characterisation of fluoroquinolone resistance mechanisms in Enterobacteriaceae in Durban, South Africa. PLoS ONE, 2017, 12, e0178888.	1.1	53
13	Antibiotic Resistance in Food Animals in Africa: A Systematic Review and Meta-Analysis. Microbial Drug Resistance, 2018, 24, 648-665.	0.9	48
14	Molecular epidemiology of antibiotic-resistant Enterococcus spp. from the farm-to-fork continuum in intensive poultry production in KwaZulu-Natal, South Africa. Science of the Total Environment, 2019, 692, 868-878.	3.9	41
15	Genomic analysis of methicillin-resistant Staphylococcus aureus isolated from poultry and occupational farm workers in Umgungundlovu District, South Africa. Science of the Total Environment, 2019, 670, 704-716.	3.9	33
16	Genomic analysis of a multidrugâ€resistant clinical Providencia rettgeri (PR002) strain with the novel integron In1483 and an A/C plasmid replicon. Annals of the New York Academy of Sciences, 2020, 1462, 92-103.	1.8	33
17	Review of Clinically and Epidemiologically Relevant Coagulase-Negative Staphylococci in Africa. Microbial Drug Resistance, 2020, 26, 951-970.	0.9	30
18	Quantitative microbial risk assessment for waterborne pathogens in a wastewater treatment plant and its receiving surface water body. BMC Microbiology, 2020, 20, 346.	1.3	29

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19	Genomic characterization of multidrug-resistant ESBL-producing Klebsiella pneumoniae isolated from a Ghanaian teaching hospital. International Journal of Infectious Diseases, 2019, 85, 117-123.	1.5	28
20	Antibiotic Resistance in Staphylococcus aureus from Poultry and Poultry Products in uMgungundlovu District, South Africa, Using the â€œFarm to Forkâ€•Approach. Microbial Drug Resistance, 2020, 26, 402-411.	0.9	28
21	Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage. Nature Communications, 2022, 13, 1976.	5.8	27
22	In Vitro Antibacterial Activity of Teixobactin Derivatives on Clinically Relevant Bacterial Isolates. Frontiers in Microbiology, 2018, 9, 1535.	1.5	25
23	Genomic Analysis of Carbapenemase-Producing Extensively Drug-Resistant Klebsiella pneumoniae Isolates Reveals the Horizontal Spread of p18-43_01 Plasmid Encoding blaNDM-1 in South Africa. Microorganisms, 2020, 8, 137.	1.6	25
24	From Farm-to-Fork: E. Coli from an Intensive Pig Production System in South Africa Shows High Resistance to Critically Important Antibiotics for Human and Animal Use. Antibiotics, 2021, 10, 178.	1.5	22
25	Genomic Insights of Multidrug-Resistant Escherichia coli From Wastewater Sources and Their Association With Clinical Pathogens in South Africa. Frontiers in Veterinary Science, 2021, 8, 636715.	0.9	22
26	Characterisation of Campylobacter spp. Isolated from Poultry in KwaZulu-Natal, South Africa. Antibiotics, 2020, 9, 42.	1.5	22
27	Mobile genetic elements-mediated Enterobacterales-associated carbapenemase antibiotic resistance genes propagation between the environment and humans: A One Health South African study. Science of the Total Environment, 2022, 806, 150641.	3.9	21
28	Multidrug-Resistant Coagulase-Negative Staphylococci Isolated from Bloodstream in the uMgungundlovu District of KwaZulu-Natal Province in South Africa: Emerging Pathogens. Antibiotics, 2021, 10, 198.	1.5	20
29	Plasmid-mediated resistance and virulence mechanisms in the private health sector in KwaZulu-Natal, South Africa: An investigation of methicillin resistant Staphylococcus aureus (MRSA) clinical isolates collected during a three month period. International Journal of Infectious Diseases, 2016, 46, 38-41.	1.5	19
30	Fluorinated Quaternary Chitosan Derivatives: Synthesis, Characterization, Antibacterial Activity, and Killing Kinetics. ACS Omega, 2020, 5, 29657-29666.	1.6	18
31	Mechanistic Insights into Oxidative Stress and Apoptosis Mediated by Tannic Acid in Human Liver Hepatocellular Carcinoma Cells. International Journal of Molecular Sciences, 2019, 20, 6145.	1.8	16
32	Molecular Epidemiology of Antibiotic-Resistant Escherichia coli from Farm-to-Fork in Intensive Poultry Production in KwaZulu-Natal, South Africa. Antibiotics, 2020, 9, 850.	1.5	16
33	Influenza Viruses: Harnessing the Crucial Role of the M2 Ion-Channel and Neuraminidase toward Inhibitor Design. Molecules, 2021, 26, 880.	1.7	16
34	Occurrence, Antimicrobial Resistance, and Molecular Characterization of Campylobacter spp. in Intensive Pig Production in South Africa. Pathogens, 2021, 10, 439.	1.2	15
35	Cytoproliferative and Anti-Oxidant Effects Induced by Tannic Acid in Human Embryonic Kidney (Hek-293) Cells. Biomolecules, 2019, 9, 767.	1.8	14
36	Analysis of Wastewater Reveals the Spread of Diverse Extended-Spectrum Î²-Lactamase-Producing E. coli Strains in uMgungundlovu District, South Africa. Antibiotics, 2021, 10, 860.	1.5	14

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37	1,4,7-Triazacyclononane Restores the Activity of Î²-Lactam Antibiotics against Metallo-Î²-Lactamase-ProducingEnterobacteriaceae: Exploration of Potential Metallo-Î²-Lactamase Inhibitors. Applied and Environmental Microbiology, 2019, 85, .	1.4	13
38	Rethinking Manure Application: Increase in Multidrug-Resistant Enterococcus spp. in Agricultural Soil Following Chicken Litter Application. Microorganisms, 2021, 9, 885.	1.6	13
39	Toxicogenicity and mechanistic pathways of aflatoxin<scp>B1</scp>induced renal injury. Environmental Toxicology, 2021, 36, 1857-1872.	2.1	13
40	A Public Health Insight into Salmonella in Poultry in Africa: A Review of the Past Decade: 2010â€“2020. Microbial Drug Resistance, 2022, 28, 710-733.	0.9	13
41	Prevalence and Antimicrobial Resistance of Escherichia coli Isolated from Various Meat Types in the Tamale Metropolis of Ghana. International Journal of Food Science, 2020, 2020, 1-7.	0.9	12
42	Burden, Antibiotic Resistance, and Clonality of Shigella spp. Implicated in Community-Acquired Acute Diarrhoea in Lilongwe, Malawi. Tropical Medicine and Infectious Disease, 2021, 6, 63.	0.9	12
43	Genomic analysis of antibiotic-resistant Enterococcus spp. reveals novel enterococci strains and the spread of plasmid-borne Tet(M), Tet(L) and Erm(B) genes from chicken litter to agricultural soil in South Africa. Journal of Environmental Management, 2022, 302, 114101.	3.8	12
44	Impact of Pyridyl Moieties on the Inhibitory Properties of Prominent Acyclic Metal Chelators Against Metallo-Î²-Lactamase-Producing Enterobacteriaceae: Investigating the Molecular Basis of Acyclic Metal Chelators' Activity. Microbial Drug Resistance, 2019, 25, 439-449.	0.9	11
45	In vitro potentiation of carbapenems with tannic acid against carbapenemase-producing enterobacteriaceae: exploring natural products as potential carbapenemase inhibitors. Journal of Applied Microbiology, 2019, 126, 452-467.	1.4	11
46	Understanding the Hsp90 N-Terminal Dynamics: Structural and Molecular Insights into the Therapeutic Activities of Anticancer Inhibitors Radicicol (RD) and Radicicol Derivative (NVP-YUA922). Molecules, 2020, 25, 1785.	1.7	11
47	Genomic Investigation of Carbapenem-Resistant Klebsiella pneumonia Colonization in an Intensive Care Unit in South Africa. Genes, 2021, 12, 951.	1.0	11
48	Genomic Analysis of Antibiotic-Resistant Staphylococcus epidermidis Isolates From Clinical Sources in the Kwazulu-Natal Province, South Africa. Frontiers in Microbiology, 2021, 12, 656306.	1.5	11
49	Transmission of Antibiotic-Resistant Escherichia coli from Chicken Litter to Agricultural Soil. Frontiers in Environmental Science, 2022, 9, .	1.5	11
50	Heat Shock Protein 90 (HSP90) Inhibitors as Anticancer Medicines: A Review on the Computer-Aided Drug Discovery Approaches over the Past Five Years. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-20.	0.7	11
51	Pathogenomic Analysis of a Novel Extensively Drug-Resistant Citrobacter freundii Isolate Carrying a blaNDM-1 Carbapenemase in South Africa. Pathogens, 2020, 9, 89.	1.2	10
52	Staphylococcus aureus in Intensive Pig Production in South Africa: Antibiotic Resistance, Virulence Determinants, and Clonality. Pathogens, 2021, 10, 317.	1.2	10
53	Molecular Epidemiology of Salmonella enterica in Poultry in South Africa Using the Farm-to-Fork Approach. International Journal of Microbiology, 2022, 2022, 1-12.	0.9	10
54	Genome Mining and Comparative Pathogenomic Analysis of An Endemic Methicillin-Resistant Staphylococcus Aureus (MRSA) Clone, ST612-CC8-t1257-SCCmec_IVd(2B), Isolated in South Africa. Pathogens, 2019, 8, 166.	1.2	9

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55	Genomic Investigation into the Virulome, Pathogenicity, Stress Response Factors, Clonal Lineages, and Phylogenetic Relationship of Escherichia coli Strains Isolated from Meat Sources in Ghana. Genes, 2020, 11, 1504.	1.0	9
56	Genomic Analysis of Enterococcus spp. Isolated From a Wastewater Treatment Plant and Its Associated Waters in Umgungundlovu District, South Africa. Frontiers in Microbiology, 2021, 12, 648454.	1.5	9
57	Prevalence, phylogenomic insights, and phenotypic characterization of Salmonella enterica isolated from meats in the Tamale metropolis of Ghana. Food Science and Nutrition, 2020, 8, 3647-3655.	1.5	8
58	From the Farms to the Dining Table: The Distribution and Molecular Characteristics of Antibiotic-Resistant Enterococcus spp. in Intensive Pig Farming in South Africa. Microorganisms, 2021, 9, 882.	1.6	8
59	Not All Street Food Is Bad: Low Prevalence of Antibiotic-Resistant Salmonella enterica in Ready-to-Eat (RTE) Meats in Ghana Is Associated with Good Vendorsâ€™ Knowledge of Meat Safety. Foods, 2021, 10, 1011.	1.9	8
60	Longitudinal Surveillance of Antibiotic Resistance in Escherichia coli and Enterococcus spp. from a Wastewater Treatment Plant and Its Associated Waters in KwaZulu-Natal, South Africa. Microbial Drug Resistance, 2021, 27, 904-918.	0.9	7
61	Genotypic and Phenotypic Characterizations of Methicillin-Resistant Staphylococcus aureus (MRSA) on Frequently Touched Sites from Public Hospitals in South Africa. International Journal of Microbiology, 2021, 2021, 1-9.	0.9	7
62	Synthesis, characterization and antimicrobial activities of quaternary chitosan-based materials. IOP Conference Series: Materials Science and Engineering, 0, 430, 012048.	0.3	6
63	Exploring the impact of H5N1 neuraminidase (H274Y) mutation on Peramivir: a bio-computational study from a molecular perspective. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4344-4352.	2.0	6
64	Comparative Pathogenomics of Aeromonas veronii from Pigs in South Africa: Dominance of the Novel ST657 Clone. Microorganisms, 2020, 8, 2008.	1.6	6
65	Occurrence, Antibiotic Resistance, Virulence Factors, and Genetic Diversity of Bacillus spp. from Public Hospital Environments in South Africa. Microbial Drug Resistance, 2021, 27, 1692-1704.	0.9	6
66	Food animals as reservoirs and potential sources of multidrug-resistant diarrheagenic E. coli pathotypes: Focus on intensive pig farming in South Africa. Onderstepoort Journal of Veterinary Research, 2022, 89, e1-e13.	0.6	6
67	Draft Genome Sequence of a Clinical Enterococcus faecium Sequence Type 18 Strain from South Africa. Genome Announcements, 2017, 5, .	0.8	4
68	Draft Genome Sequence of Providencia rettgeri APW139_S1, an NDM-18-Producing Clinical Strain Originating from Hospital Effluent in South Africa. Microbiology Resource Announcements, 2019, 8, .	0.3	4
69	First Report of a Whole-Genome Shotgun Sequence of a Clinical Enterococcus faecalis Sequence Type 6 Strain from South Africa. Genome Announcements, 2017, 5, .	0.8	3
70	Diâ€2â€picolylamine triggers caspaseâ€independent apoptosis by inducing oxidative stress in human liver hepatocellular carcinoma cells. Biotechnology and Applied Biochemistry, 2021, 68, 257-266.	1.4	3
71	Whole-Genome Sequence of a Novel Sequence Type 3136 Carbapenem-Resistant Klebsiella pneumoniae Strain Isolated from a Hospitalized Patient in Durban, South Africa. Microbiology Resource Announcements, 2018, 7, .	0.3	2
72	Whole-Genome Shotgun Sequence of Drug-Resistant Staphylococcus aureus Strain SA9, Isolated from a Slaughterhouse Chicken Carcass in South Africa. Microbiology Resource Announcements, 2019, 8, .	0.3	2

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73	The molecular effect of 1,4,7â€triazacyclononane on oxidative stress parameters in human hepatocellular carcinoma (HepG2) cells. Journal of Biochemical and Molecular Toxicology, 2020, 34, e22607.	1.4	2
74	Molecular Insights Into Di(2-Picolyl) Amineâ€“Induced Cytotoxicity and Apoptosis in Human Kidney (HEK293) Cells. International Journal of Toxicology, 2020, 39, 341-351.	0.6	2
75	Molecular Surveillance and Dissemination of Klebsiella pneumoniae on Frequently Encountered Surfaces in South African Public Hospitals. Microbial Drug Resistance, 2021, , .	0.9	2
76	Characterization, Pathogenicity, Phylogeny, and Comparative Genomic Analysis ofPseudomonas tolaasiiStrains Isolated from Various Mushrooms in China. Phytopathology, 2022, 112, 521-534.	1.1	2
77	Genome Sequence of a Novel Enterococcus faecalis Sequence Type 922 Strain Isolated from a Door Handle in the Intensive Care Unit of a District Hospital in Durban, South Africa. Microbiology Resource Announcements, 2019, 8, .	0.3	2
78	Exploring the inhibitory mechanism of resorcinylic isoxazole amine NVP-AUY922 towards the discovery of potential heat shock protein 90 (Hsp90) inhibitors. Scientific African, 2022, 15, e01107.	0.7	2
79	Molecular mechanisms underlying the renoprotective effects of 1,4,7-triazacyclononane: a Î²eta-lactamase inhibitor. Cytotechnology, 2020, 72, 785-796.	0.7	1
80	First genome sequence of Aeromonas hydrophilia novel sequence type 658 strain isolated from livestock in South Africa. Journal of Global Antimicrobial Resistance, 2021, 24, 175-177.	0.9	1
81	Apoptosis-inducing effects of Terminalia phanerophlebia leaf extracts on human renal cells. South African Journal of Botany, 2021, 139, 273-280.	1.2	1
82	Genomic analysis of antibiotic-resistant Enterobacter spp. from wastewater sources in South Africa: The first report of the mobilisable colistin resistance mcr-10 gene in Africa. Ecological Genetics and Genomics, 2021, 21, 100104.	0.3	1
83	Susceptibility of Anopheles Mosquito to Agricultural Insecticides in the Adansi North District, Ghana. Journal of Pure and Applied Microbiology, 2019, 13, 677-688.	0.3	1
84	Tet(M) Mediates Tetracycline Resistance in Methicillin-Resistant Staphylococcus aureus (MRSA) Clinical Isolates from the Private Hospital Sector in KwaZulu-Natal (KZN), South Africa. Journal of Pure and Applied Microbiology, 2019, 13, 51-59.	0.3	0
85	Understanding the Binding Mechanism of Antagonist (AZD3293) Against BACE-1: Molecular Insights into Alzheimerâ€™s Drug Discovery. Letters in Drug Design and Discovery, 2020, 17, 850-857.	0.4	0