

# Daniel Gyamfi Amoako

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

5,634  
citations

377584

21  
h-index

139680

61  
g-index

103  
all docs

103  
docs citations

103  
times ranked

6406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. <i>Nature</i> , 2022, 603, 679-686.	13.7	1,210
2	Omicron extensively but incompletely escapes Pfizer BNT162b2 neutralization. <i>Nature</i> , 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. <i>Lancet, The</i> , 2022, 399, 437-446.	6.3	818
4	Emergence of SARS-CoV-2 Omicron lineages BA.4 and BA.5 in South Africa. <i>Nature Medicine</i> , 2022, 28, 1785-1790.	15.2	456
5	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. <i>Science</i> , 2021, 374, 423-431.	6.0	144
6	Omicron extensively but incompletely escapes Pfizer BNT162b2 neutralization. <i>Nature</i> , 0, , .	13.7	104
7	Carbonyl Cyanide m-Chlorophenylhydrazine (CCCP) Reverses Resistance to Colistin, but Not to Carbapenems and Tigecycline in Multidrug-Resistant Enterobacteriaceae. <i>Frontiers in Microbiology</i> , 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. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	84
9	Diversity and Proliferation of Metallo- $\beta$ -Lactamases: a Clarion Call for Clinically Effective Metallo- $\beta$ -Lactamase Inhibitors. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	71
10	Omicron infection enhances Delta antibody immunity in vaccinated persons. <i>Nature</i> , 2022, 607, 356-359.	13.7	66
11	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. <i>Nature</i> , 0, , .	13.7	61
12	Genomic and phenotypic characterisation of fluoroquinolone resistance mechanisms in Enterobacteriaceae in Durban, South Africa. <i>PLoS ONE</i> , 2017, 12, e0178888.	1.1	53
13	Antibiotic Resistance in Food Animals in Africa: A Systematic Review and Meta-Analysis. <i>Microbial Drug Resistance</i> , 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. <i>Science of the Total Environment</i> , 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. <i>Science of the Total Environment</i> , 2019, 670, 704-716.	3.9	33
16	Genomic analysis of a multidrug-resistant clinical <i>Providencia rettgeri</i> (PR002) strain with the novel integron <i>ln</i> 1483 and an A/C plasmid replicon. <i>Annals of the New York Academy of Sciences</i> , 2020, 1462, 92-103.	1.8	33
17	Review of Clinically and Epidemiologically Relevant Coagulase-Negative Staphylococci in Africa. <i>Microbial Drug Resistance</i> , 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. <i>BMC Microbiology</i> , 2020, 20, 346.	1.3	29

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19	Genomic characterization of multidrug-resistant ESBL-producing <i>Klebsiella pneumoniae</i> isolated from a Ghanaian teaching hospital. <i>International Journal of Infectious Diseases</i> , 2019, 85, 117-123.	1.5	28
20	Antibiotic Resistance in <i>Staphylococcus aureus</i> from Poultry and Poultry Products in uMgungundlovu District, South Africa, Using the "Farm to Fork" Approach. <i>Microbial Drug Resistance</i> , 2020, 26, 402-411.	0.9	28
21	Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage. <i>Nature Communications</i> , 2022, 13, 1976.	5.8	27
22	In Vitro Antibacterial Activity of Teixobactin Derivatives on Clinically Relevant Bacterial Isolates. <i>Frontiers in Microbiology</i> , 2018, 9, 1535.	1.5	25
23	Genomic Analysis of Carbapenemase-Producing Extensively Drug-Resistant <i>Klebsiella pneumoniae</i> Isolates Reveals the Horizontal Spread of p18-43_01 Plasmid Encoding bla <sub>NDM-1</sub> in South Africa. <i>Microorganisms</i> , 2020, 8, 137.	1.6	25
24	From Farm-to-Fork: <i>E. Coli</i> from an Intensive Pig Production System in South Africa Shows High Resistance to Critically Important Antibiotics for Human and Animal Use. <i>Antibiotics</i> , 2021, 10, 178.	1.5	22
25	Genomic Insights of Multidrug-Resistant <i>Escherichia coli</i> From Wastewater Sources and Their Association With Clinical Pathogens in South Africa. <i>Frontiers in Veterinary Science</i> , 2021, 8, 636715.	0.9	22
26	Characterisation of <i>Campylobacter</i> spp. Isolated from Poultry in KwaZulu-Natal, South Africa. <i>Antibiotics</i> , 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. <i>Science of the Total Environment</i> , 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. <i>Antibiotics</i> , 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 <i>Staphylococcus aureus</i> (MRSA) clinical isolates collected during a three month period. <i>International Journal of Infectious Diseases</i> , 2016, 46, 38-41.	1.5	19
30	Fluorinated Quaternary Chitosan Derivatives: Synthesis, Characterization, Antibacterial Activity, and Killing Kinetics. <i>ACS Omega</i> , 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. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6145.	1.8	16
32	Molecular Epidemiology of Antibiotic-Resistant <i>Escherichia coli</i> from Farm-to-Fork in Intensive Poultry Production in KwaZulu-Natal, South Africa. <i>Antibiotics</i> , 2020, 9, 850.	1.5	16
33	Influenza Viruses: Harnessing the Crucial Role of the M2 Ion-Channel and Neuraminidase toward Inhibitor Design. <i>Molecules</i> , 2021, 26, 880.	1.7	16
34	Occurrence, Antimicrobial Resistance, and Molecular Characterization of <i>Campylobacter</i> spp. in Intensive Pig Production in South Africa. <i>Pathogens</i> , 2021, 10, 439.	1.2	15
35	Cytoproliferative and Anti-Oxidant Effects Induced by Tannic Acid in Human Embryonic Kidney (Hek-293) Cells. <i>Biomolecules</i> , 2019, 9, 767.	1.8	14
36	Analysis of Wastewater Reveals the Spread of Diverse Extended-Spectrum $\beta$ -Lactamase-Producing <i>E. coli</i> Strains in uMgungundlovu District, South Africa. <i>Antibiotics</i> , 2021, 10, 860.	1.5	14

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37	1,4,7-Triazacyclononane Restores the Activity of $\beta$ -Lactam Antibiotics against Metallo- $\beta$ -Lactamase-Producing <i>Enterobacteriaceae</i> : Exploration of Potential Metallo- $\beta$ -Lactamase Inhibitors. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	13
38	Rethinking Manure Application: Increase in Multidrug-Resistant <i>Enterococcus</i> spp. in Agricultural Soil Following Chicken Litter Application. <i>Microorganisms</i> , 2021, 9, 885.	1.6	13
39	Toxicogenicity and mechanistic pathways of aflatoxin B1 induced renal injury. <i>Environmental Toxicology</i> , 2021, 36, 1857-1872.	2.1	13
40	A Public Health Insight into <i>Salmonella</i> in Poultry in Africa: A Review of the Past Decade: 2010–2020. <i>Microbial Drug Resistance</i> , 2022, 28, 710-733.	0.9	13
41	Prevalence and Antimicrobial Resistance of <i>Escherichia coli</i> Isolated from Various Meat Types in the Tamale Metropolis of Ghana. <i>International Journal of Food Science</i> , 2020, 2020, 1-7.	0.9	12
42	Burden, Antibiotic Resistance, and Clonality of <i>Shigella</i> spp. Implicated in Community-Acquired Acute Diarrhoea in Lilongwe, Malawi. <i>Tropical Medicine and Infectious Disease</i> , 2021, 6, 63.	0.9	12
43	Genomic analysis of antibiotic-resistant <i>Enterococcus</i> 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. <i>Journal of Environmental Management</i> , 2022, 302, 114101.	3.8	12
44	Impact of Pyridyl Moieties on the Inhibitory Properties of Prominent Acyclic Metal Chelators Against Metallo- $\beta$ -Lactamase-Producing <i>Enterobacteriaceae</i> : Investigating the Molecular Basis of Acyclic Metal Chelators' Activity. <i>Microbial Drug Resistance</i> , 2019, 25, 439-449.	0.9	11
45	In vitro potentiation of carbapenems with tannic acid against carbapenemase-producing <i>enterobacteriaceae</i> : exploring natural products as potential carbapenemase inhibitors. <i>Journal of Applied Microbiology</i> , 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 Radicol (RD) and Radicol Derivative (NVP-YUA922). <i>Molecules</i> , 2020, 25, 1785.	1.7	11
47	Genomic Investigation of Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Colonization in an Intensive Care Unit in South Africa. <i>Genes</i> , 2021, 12, 951.	1.0	11
48	Genomic Analysis of Antibiotic-Resistant <i>Staphylococcus epidermidis</i> Isolates From Clinical Sources in the Kwazulu-Natal Province, South Africa. <i>Frontiers in Microbiology</i> , 2021, 12, 656306.	1.5	11
49	Transmission of Antibiotic-Resistant <i>Escherichia coli</i> from Chicken Litter to Agricultural Soil. <i>Frontiers in Environmental Science</i> , 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. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-20.	0.7	11
51	Pathogenomic Analysis of a Novel Extensively Drug-Resistant <i>Citrobacter freundii</i> Isolate Carrying a blaNDM-1 Carbapenemase in South Africa. <i>Pathogens</i> , 2020, 9, 89.	1.2	10
52	<i>Staphylococcus aureus</i> in Intensive Pig Production in South Africa: Antibiotic Resistance, Virulence Determinants, and Clonality. <i>Pathogens</i> , 2021, 10, 317.	1.2	10
53	Molecular Epidemiology of <i>Salmonella enterica</i> in Poultry in South Africa Using the Farm-to-Fork Approach. <i>International Journal of Microbiology</i> , 2022, 2022, 1-12.	0.9	10
54	Genome Mining and Comparative Pathogenomic Analysis of An Endemic Methicillin-Resistant <i>Staphylococcus Aureus</i> (MRSA) Clone, ST612-CC8-t1257-SCCmec_IVd(2B), Isolated in South Africa. <i>Pathogens</i> , 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 <i>Escherichia coli</i> Strains Isolated from Meat Sources in Ghana. <i>Genes</i> , 2020, 11, 1504.	1.0	9
56	Genomic Analysis of <i>Enterococcus</i> spp. Isolated From a Wastewater Treatment Plant and Its Associated Waters in Umgungundlovu District, South Africa. <i>Frontiers in Microbiology</i> , 2021, 12, 648454.	1.5	9
57	Prevalence, phylogenomic insights, and phenotypic characterization of <i>Salmonella enterica</i> isolated from meats in the Tamale metropolis of Ghana. <i>Food Science and Nutrition</i> , 2020, 8, 3647-3655.	1.5	8
58	From the Farms to the Dining Table: The Distribution and Molecular Characteristics of Antibiotic-Resistant <i>Enterococcus</i> spp. in Intensive Pig Farming in South Africa. <i>Microorganisms</i> , 2021, 9, 882.	1.6	8
59	Not All Street Food Is Bad: Low Prevalence of Antibiotic-Resistant <i>Salmonella enterica</i> in Ready-to-Eat (RTE) Meats in Ghana Is Associated with Good Vendors' Knowledge of Meat Safety. <i>Foods</i> , 2021, 10, 1011.	1.9	8
60	Longitudinal Surveillance of Antibiotic Resistance in <i>Escherichia coli</i> and <i>Enterococcus</i> spp. from a Wastewater Treatment Plant and Its Associated Waters in KwaZulu-Natal, South Africa. <i>Microbial Drug Resistance</i> , 2021, 27, 904-918.	0.9	7
61	Genotypic and Phenotypic Characterizations of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) on Frequently Touched Sites from Public Hospitals in South Africa. <i>International Journal of Microbiology</i> , 2021, 2021, 1-9.	0.9	7
62	Synthesis, characterization and antimicrobial activities of quaternary chitosan-based materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 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. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 4344-4352.	2.0	6
64	Comparative Pathogenomics of <i>Aeromonas veronii</i> from Pigs in South Africa: Dominance of the Novel ST657 Clone. <i>Microorganisms</i> , 2020, 8, 2008.	1.6	6
65	Occurrence, Antibiotic Resistance, Virulence Factors, and Genetic Diversity of <i>Bacillus</i> spp. from Public Hospital Environments in South Africa. <i>Microbial Drug Resistance</i> , 2021, 27, 1692-1704.	0.9	6
66	Food animals as reservoirs and potential sources of multidrug-resistant diarrheagenic <i>E. coli</i> pathotypes: Focus on intensive pig farming in South Africa. <i>Onderstepoort Journal of Veterinary Research</i> , 2022, 89, e1-e13.	0.6	6
67	Draft Genome Sequence of a Clinical <i>Enterococcus faecium</i> Sequence Type 18 Strain from South Africa. <i>Genome Announcements</i> , 2017, 5, .	0.8	4
68	Draft Genome Sequence of <i>Providencia rettgeri</i> APW139_S1, an NDM-18-Producing Clinical Strain Originating from Hospital Effluent in South Africa. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	4
69	First Report of a Whole-Genome Shotgun Sequence of a Clinical <i>Enterococcus faecalis</i> Sequence Type 6 Strain from South Africa. <i>Genome Announcements</i> , 2017, 5, .	0.8	3
70	Diallylamine triggers caspase-independent apoptosis by inducing oxidative stress in human liver hepatocellular carcinoma cells. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 257-266.	1.4	3
71	Whole-Genome Sequence of a Novel Sequence Type 3136 Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Strain Isolated from a Hospitalized Patient in Durban, South Africa. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	2
72	Whole-Genome Shotgun Sequence of Drug-Resistant <i>Staphylococcus aureus</i> Strain SA9, Isolated from a Slaughterhouse Chicken Carcass in South Africa. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	2

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