

# Vuyo Mavumengwana

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,675  
citations

393982

19  
h-index

301761

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive Compounds and Biological Functions of Garlic ( <i>Allium sativum</i> L.). <i>Foods</i> , 2019, 8, 246.	1.9	399
2	Toxic Metal Implications on Agricultural Soils, Plants, Animals, Aquatic life and Human Health. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2204.	1.2	225
3	Review on microbial degradation of aflatoxins. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 3208-3217.	5.4	162
4	Green synthesis of silver nanoparticles using <i>Combretum erythrophyllum</i> leaves and its antibacterial activities. <i>Colloids and Interface Science Communications</i> , 2019, 31, 100191.	2.0	81
5	Biofertilizer: The Future of Food Security and Food Safety. <i>Microorganisms</i> , 2022, 10, 1220.	1.6	68
6	Degradation and detoxification of AFB1 by <i>Staphylococcus warneri</i> , <i>Sporosarcina</i> sp. and <i>Lysinibacillus fusiformis</i> . <i>Food Control</i> , 2016, 68, 92-96.	2.8	55
7	Phylogenetic Analysis and Antimicrobial Profiles of Cultured Emerging Opportunistic Pathogens (Phyla Actinobacteria and Proteobacteria) Identified in Hot Springs. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1070.	1.2	52
8	Inhibition of multidrug-resistant foodborne <i>Staphylococcus aureus</i> biofilms by a natural terpenoid (+)-nootkatone and related molecular mechanism. <i>Food Control</i> , 2020, 112, 107154.	2.8	46
9	Antimicrobial and Antioxidant Properties of a Bacterial Endophyte, <i>Methylobacterium radiotolerans</i> MAMP 4754, Isolated from <i>Combretum erythrophyllum</i> Seeds. <i>International Journal of Microbiology</i> , 2020, 2020, 1-11.	0.9	40
10	Aflatoxin B 1 degradation by liquid cultures and lysates of three bacterial strains. <i>International Journal of Food Microbiology</i> , 2016, 233, 11-19.	2.1	38
11	Screening of potential bioremediation enzymes from hot spring bacteria using conventional plate assays and liquid chromatography - Tandem mass spectrometry (Lc-Ms/Ms). <i>Journal of Environmental Management</i> , 2018, 223, 787-796.	3.8	33
12	Antibacterial Activities of Crude Secondary Metabolite Extracts from <i>Pantoea</i> Species Obtained from the Stem of <i>Solanum mauritanium</i> and Their Effects on Two Cancer Cell Lines. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 602.	1.2	33
13	Conjugates of plumbagin and phenyl-2-amino-1-thioglucoside inhibit MshB, a deacetylase involved in the biosynthesis of mycothiol. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2501-2514.	1.4	32
14	Antibiotic resistance and heavy metal tolerance in cultured bacteria from hot springs as indicators of environmental intrinsic resistance and tolerance levels. <i>Environmental Pollution</i> , 2019, 249, 696-702.	3.7	28
15	Evaluating antibacterial and anticancer activity of crude extracts of bacterial endophytes from <i>Crinum macowanii</i> Baker bulbs. <i>MicrobiologyOpen</i> , 2019, 8, e914.	1.2	25
16	Large-Scale Screening of 239 Traditional Chinese Medicinal Plant Extracts for Their Antibacterial Activities against Multidrug-Resistant <i>Staphylococcus aureus</i> and Cytotoxic Activities. <i>Pathogens</i> , 2020, 9, 185.	1.2	25
17	Aflatoxin B1 degradation by culture and lysate of a <i>Pontibacter</i> specie. <i>Food Control</i> , 2017, 80, 99-103.	2.8	23
18	Influence of boiling and subsequent phases of digestion on the phenolic content, bioaccessibility, and bioactivity of <i>Bidens pilosa</i> (Blackjack) leafy vegetable. <i>Food Chemistry</i> , 2020, 311, 126023.	4.2	23

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19	Gold Mine Tailings: A Potential Source of Silica Sand for Glass Making. <i>Minerals</i> (Basel, Switzerland), 2020, 10, 448.	0.8	22
20	Concomitant in Situ FTIR and Impedance Measurements To Address the 2-Methylcyclopentanone Vapor-Sensing Mechanism in MnO <sub>2</sub> â€“Polymer Nanocomposites. <i>ACS Omega</i> , 2019, 4, 8324-8333.	1.6	19
21	Diversity and Antimicrobial Activity of Culturable Fungal Endophytes in <i>Solanum mauritianum</i> . <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 439.	1.2	19
22	Facile Green, Room-Temperature Synthesis of Gold Nanoparticles Using <i>Combretum erythrophyllum</i> Leaf Extract: Antibacterial and Cell Viability Studies against Normal and Cancerous Cells. <i>Antibiotics</i> , 2021, 10, 893.	1.5	19
23	Effects of cooking and drying on phenolic compounds and antioxidant activity of African green leafy vegetables. <i>Food Reviews International</i> , 2018, 34, 248-264.	4.3	17
24	African Green Leafy Vegetables Health Benefits Beyond Nutrition. <i>Food Reviews International</i> , 2021, 37, 601-618.	4.3	17
25	Genomic and Physiological Investigation of Heavy Metal Resistance from Plant Endophytic <i>Methylobacterium radiotolerans</i> MAMP 4754, Isolated from <i>Combretum erythrophyllum</i> . <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 997.	1.2	16
26	Biosynthesis of Smaller-Sized Platinum Nanoparticles Using the Leaf Extract of <i>Combretum erythrophyllum</i> and Its Antibacterial Activities. <i>Antibiotics</i> , 2021, 10, 1275.	1.5	16
27	Antibacterial and Anticancer Activity and Untargeted Secondary Metabolite Profiling of Crude Bacterial Endophyte Extracts from <i>Crinum macowanii</i> Baker Leaves. <i>International Journal of Microbiology</i> , 2020, 2020, 1-15.	0.9	14
28	The impact of boiling and in vitro human digestion of <i>Solanum nigrum</i> complex (Black nightshade) on phenolic compounds bioactivity and bioaccessibility. <i>Food Research International</i> , 2020, 137, 109720.	2.9	14
29	Dataset on assessment of pollution level of selected trace metals in farming area within the proximity of a gold mine dump, Ekuhurleni, South Africa. <i>Data in Brief</i> , 2019, 26, 104473.	0.5	13
30	The LC-QTOF-MS/MS analysis data of detected metabolites from the crude extract of <i>Datura stramonium</i> leaves. <i>Data in Brief</i> , 2019, 25, 104094.	0.5	12
31	The Relationship between Cadmium Toxicity and the Modulation of Epigenetic Traits in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7046.	1.8	12
32	Cytotoxic activity of crude extracts from <i>Datura stramonium</i> â€™s fungal endophytes against A549 lung carcinoma and UMG87 glioblastoma cell lines and LC-QTOF-MS/MS based metabolite profiling. <i>BMC Complementary and Alternative Medicine</i> , 2019, 19, 330.	3.7	11
33	Antibacterial activity and gas chromatography mass spectrometry (GCâ€“MS)-based metabolite profiles of <i>Celtis africana</i> and its endophytic extracts. <i>Industrial Crops and Products</i> , 2020, 157, 112933.	2.5	9
34	Discovery of 1â€™-acetoxychavicol acetate (ACA) as a promising antibacterial compound from galangal ( <i>Alpinia galanga</i> (Linn.) Willd). <i>Industrial Crops and Products</i> , 2021, 171, 113883.	2.5	9
35	Optimization of Microbial Leaching of Base Metals from a South African Sulfidic Nickel Ore Concentrate by <i>Acidithiobacillus ferrooxidans</i> . <i>Geomicrobiology Journal</i> , 2018, 35, 447-459.	1.0	8
36	Understanding the sensing mechanism of carbon nanoparticles: MnO <sub>2</sub> â€“PVP composites sensors using in situ FTIRâ€™ online LCR meter in the detection of ethanol and methanol vapor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3552-3562.	1.1	8

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37	Bioaccumulation and Quantitative Variations of Microcystins in the Swartspruit River, South Africa. Archives of Environmental Contamination and Toxicology, 2016, 71, 286-296.	2.1	6
38	Anticancer activity and metabolite profiling data of <i>Penicillium janthinellum</i> KTMT5. Data in Brief, 2020, 28, 104959.	0.5	5
39	A direct relationship between the sensitivity of the sensors and the intensity of IR CO <sub>2</sub> peak in <i>in situ</i> FTIR-LCR meter chemi-impedance SnO <sub>2</sub> carbon nanoparticles polymer-based sensors in the detection of organic compounds vapor. AIP Advances, 2021, 11, .	0.6	4
40	Effectiveness of the Novel Anti-TB Bedaquiline against Drug-Resistant TB in Africa: A Systematic Review of the Literature. Pathogens, 2022, 11, 636.	1.2	3
41	Screening of Cyanobacterial Peptide Toxin, Microcystins in Hyperscum Water Samples from an Inland Sub Saharan Drinking Freshwater Reservoir. Bulletin of Environmental Contamination and Toxicology, 2016, 97, 728-736.	1.3	2
42	Draft Genome Sequence of <i>Methylobacterium radiotolerans</i> Strain MAMP 4754, a Bacterial Endophyte Isolated from <i>Combretum erythrophyllum</i> in South Africa. Genome Announcements, 2017, 5, .	0.8	2
43	Evaluation of Trace Elemental Levels as Pollution Indicators in an Abandoned Gold Mine Dump in Ekurhuleni Area, South Africa. , 0, , .		2
44	Hydrothermal Processing and In Vitro Simulated Human Digestion Affects the Bioaccessibility and Bioactivity of Phenolic Compounds in African Pumpkin ( <i>Momordica balsamina</i> ) Leaves. Molecules, 2021, 26, 5201.	1.7	2
45	Fungal-derived compounds and mycogenic nanoparticles with antimycobacterial activity: a review. SN Applied Sciences, 2022, 4, 1.	1.5	2
46	<i>In vitro</i> biomass accumulation of calli and root enhancement of <i>Leucas aspera</i> (Willd) Linn. under stress conditions. African Journal of Science, Technology, Innovation and Development, 2015, 7, 395-400.	0.8	1
47	The effects of an acidic environment on selected geophagic clayey samples and its impact on the bioavailability of certain elements. Transactions of the Royal Society of South Africa, 2018, 73, 180-185.	0.8	1
48	Clayey minerals and clayey soils as possible microorganism repositories. Transactions of the Royal Society of South Africa, 2018, 73, 79-85.	0.8	1
49	Incidence of microcystins (Hepatotoxin) in floating scums in the Swartspruit River, South Africa. Toxicology Letters, 2016, 258, S184.	0.4	0
50	Mobility of Trace Element Contaminants from Abandoned Gold Mine Dump to Stream Waters in an Agricultural Active Area. , 0, , .		0
51	INCIDENCE OF MICROCYSTINS (HEPATOTOXINS) IN FLOATING SCUMS IN THE SWARTSPRUIT RIVER, SOUTH AFRICA. Applied Ecology and Environmental Research, 2016, 14, 357-373.	0.2	0
52	THE IMPACT OF MINING ACTIVITY ON THE SURROUNDING SOILS NEAR A GOLD MINE IN BLESBOKSPRUIT-EKURHULENI, SOUTH AFRICA. , 2018, , .		0
53	MOBILITY OF CONTAMINANTS FROM ABANDONED GOLD MINE DUMPS TO STREAM WATERS IN AN AGRICULTURAL ACTIVITY AREA. , 2018, , .		0