

# Phiwayinkosi Dlodla

## List of Publications by Year in descending order

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97  
papers

2,055  
citations

257101

24  
h-index

315357

38  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation and Oxidative Stress in an Obese State and the Protective Effects of Gallic Acid. <i>Nutrients</i> , 2019, 11, 23.	1.7	180
2	The effect of adiponectin in the pathogenesis of non-alcoholic fatty liver disease (NAFLD) and the potential role of polyphenols in the modulation of adiponectin signaling. <i>Biomedicine and Pharmacotherapy</i> , 2020, 131, 110785.	2.5	80
3	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-β-D-glucoside. <i>Nutrition and Metabolism</i> , 2017, 14, 45.	1.3	78
4	Aspalathin, a dihydrochalcone C-glucoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 922-934.	1.5	70
5	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. <i>Molecules</i> , 2017, 22, 129.	1.7	64
6	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. <i>Toxicology Reports</i> , 2018, 5, 1014-1020.	1.6	60
7	A systematic review on the functional role of Th1/Th2 cytokines in type 2 diabetes and related metabolic complications. <i>Cytokine</i> , 2020, 126, 154892.	1.4	57
8	Aspalathin from Rooibos ( <i>Aspalathus linearis</i> ): A Bioactive C-glucosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. <i>Planta Medica</i> , 2018, 84, 568-583.	0.7	56
9	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. <i>International Journal of Molecular Sciences</i> , 2019, 20, 633.	1.8	56
10	The cardioprotective effect of an aqueous extract of fermented rooibos ( <i>Aspalathus linearis</i> ) on cultured cardiomyocytes derived from diabetic rats. <i>Phytomedicine</i> , 2014, 21, 595-601.	2.3	51
11	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. <i>American Journal of Cardiovascular Drugs</i> , 2018, 18, 283-298.	1.0	50
12	Curcumin supplementation improves biomarkers of oxidative stress and inflammation in conditions of obesity, type 2 diabetes and NAFLD: updating the status of clinical evidence. <i>Food and Function</i> , 2021, 12, 12235-12249.	2.1	46
13	Isoorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. <i>Pharmacological Research</i> , 2020, 158, 104867.	3.1	44
14	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. <i>Molecules</i> , 2017, 22, 219.	1.7	40
15	The beneficial effects of N-acetyl cysteine (NAC) against obesity associated complications: A systematic review of pre-clinical studies. <i>Pharmacological Research</i> , 2019, 146, 104332.	3.1	39
16	Role of Coenzyme Q10 in Health and Disease: An Update on the Last 10 Years (2010–2020). <i>Antioxidants</i> , 2021, 10, 1325.	2.2	39
17	Rutin ameliorates inflammation and improves metabolic function: A comprehensive analysis of scientific literature. <i>Pharmacological Research</i> , 2022, 178, 106163.	3.1	36
18	Drug-Induced Liver Injury: Clinical Evidence of N-Acetyl Cysteine Protective Effects. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-12.	1.9	35

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19	Obesity-induced inflammation and insulin resistance: A mini-review on T-cells. <i>Metabolism Open</i> , 2019, 3, 100015.	1.4	31
20	N-Acetyl Cysteine Targets Hepatic Lipid Accumulation to Curb Oxidative Stress and Inflammation in NAFLD: A Comprehensive Analysis of the Literature. <i>Antioxidants</i> , 2020, 9, 1283.	2.2	31
21	Adipokines as a therapeutic target by metformin to improve metabolic function: A systematic review of randomized controlled trials. <i>Pharmacological Research</i> , 2021, 163, 105219.	3.1	31
22	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. <i>PLoS ONE</i> , 2019, 14, e0216172.	1.1	30
23	Coenzyme Q10 Supplementation Improves Adipokine Levels and Alleviates Inflammation and Lipid Peroxidation in Conditions of Metabolic Syndrome: A Meta-Analysis of Randomized Controlled Trials. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3247.	1.8	30
24	Ubiquinol Ameliorates Endothelial Dysfunction in Subjects with Mild-to-Moderate Dyslipidemia: A Randomized Clinical Trial. <i>Nutrients</i> , 2020, 12, 1098.	1.7	26
25	Uncoupling proteins as a therapeutic target to protect the diabetic heart. <i>Pharmacological Research</i> , 2018, 137, 11-24.	3.1	24
26	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	1.1	24
27	The impact of coenzyme Q <sub>10</sub> on metabolic and cardiovascular disease profiles in diabetic patients: A systematic review and meta-analysis of randomized controlled trials. <i>Endocrinology, Diabetes and Metabolism</i> , 2020, 3, e00118.	1.0	24
28	Metformin and heart failure-related outcomes in patients with or without diabetes: a systematic review of randomized controlled trials. <i>Heart Failure Reviews</i> , 2021, 26, 1437-1445.	1.7	23
29	Protective effect of triterpenes against diabetes-induced $\beta$ -cell damage: An overview of in vitro and in vivo studies. <i>Pharmacological Research</i> , 2018, 137, 179-192.	3.1	22
30	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. <i>Molecules</i> , 2019, 24, 1713.	1.7	22
31	Cardioprotective potential of N-acetyl cysteine against hyperglycaemia-induced oxidative damage: a protocol for a systematic review. <i>Systematic Reviews</i> , 2017, 6, 96.	2.5	21
32	N-Acetyl cysteine ameliorates hyperglycemia-induced cardiomyocyte toxicity by improving mitochondrial energetics and enhancing endogenous Coenzyme Q9/10 levels. <i>Toxicology Reports</i> , 2019, 6, 1240-1245.	1.6	21
33	Exploring the Comparative Efficacy of Metformin and Resveratrol in the Management of Diabetes-Associated Complications: A Systematic Review of Preclinical Studies. <i>Nutrients</i> , 2020, 12, 739.	1.7	21
34	Impact of physical exercise and caloric restriction in patients with type 2 diabetes: Skeletal muscle insulin resistance and mitochondrial dysfunction as ideal therapeutic targets. <i>Life Sciences</i> , 2022, 297, 120467.	2.0	21
35	Phenylpyruvic Acid-2-O- $\beta$ -D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	0.7	20
36	T-cell activation and cardiovascular risk in adults with type 2 diabetes mellitus: A systematic review and meta-analysis. <i>Clinical Immunology</i> , 2020, 210, 108313.	1.4	20

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37	The impact of metformin and aspirin on T-cell mediated inflammation: A systematic review of in vitro and in vivo findings. <i>Life Sciences</i> , 2020, 255, 117854.	2.0	20
38	A Meta-Analysis of the Impact of Resveratrol Supplementation on Markers of Renal Function and Blood Pressure in Type 2 Diabetic Patients on Hypoglycemic Therapy. <i>Molecules</i> , 2020, 25, 5645.	1.7	18
39	The Protective Role of Bioactive Quinones in Stress-induced Senescence Phenotype of Endothelial Cells Exposed to Cigarette Smoke Extract. <i>Antioxidants</i> , 2020, 9, 1008.	2.2	17
40	Platelet activation in adult HIV-infected patients on antiretroviral therapy: a systematic review and meta-analysis. <i>BMC Medicine</i> , 2020, 18, 357.	2.3	17
41	Linking LOXL2 to Cardiac Interstitial Fibrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5913.	1.8	17
42	Evaluation of anticancer role of a novel ruthenium(II)-based compound compared with NAMI-A and cisplatin in impairing mitochondrial functionality and promoting oxidative stress in triple negative breast cancer models. <i>Mitochondrion</i> , 2021, 56, 25-34.	1.6	15
43	Tea consumption and its effects on primary and secondary prevention of coronary artery disease: Qualitative synthesis of evidence from randomized controlled trials. <i>Clinical Nutrition ESPEN</i> , 2021, 41, 77-87.	0.5	15
44	Aspalathin, a C-glucosyl Dihydrochalcone From Rooibos Improves the Hypoglycemic Potential of Metformin in Type 2 Diabetic (db/db) Mice. <i>Physiological Research</i> , 2018, 67, 813-818.	0.4	15
45	Obesity-related asthma in children is characterized by T-helper 1 rather than T-helper 2 immune response: A meta-analysis. <i>Annals of Allergy, Asthma and Immunology</i> , 2020, 125, 425-432.e4.	0.5	14
46	Pharmacogenomics of amlodipine and hydrochlorothiazide therapy and the quest for improved control of hypertension: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 343-357.	1.7	13
47	Isoorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. <i>Metabolism Open</i> , 2020, 6, 100037.	1.4	13
48	Monocyte-mediated inflammation and cardiovascular risk factors in type 2 diabetes mellitus: A systematic review and meta-analysis of pre-clinical and clinical studies. <i>JRSM Cardiovascular Disease</i> , 2020, 9, 204800401990074.	0.4	13
49	Impact of Isoorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. <i>Molecules</i> , 2020, 25, 1773.	1.7	13
50	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O-β-d-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. <i>Nutrients</i> , 2020, 12, 1151.	1.7	13
51	Physical Exercise Potentially Targets Epicardial Adipose Tissue to Reduce Cardiovascular Disease Risk in Patients with Metabolic Diseases: Oxidative Stress and Inflammation Emerge as Major Therapeutic Targets. <i>Antioxidants</i> , 2021, 10, 1758.	2.2	13
52	The Implication of Low Dose Dimethyl Sulfoxide on Mitochondrial Function and Oxidative Damage in Cultured Cardiac and Cancer Cells. <i>Molecules</i> , 2021, 26, 7305.	1.7	13
53	Age-dependent development of left ventricular wall thickness in type 2 diabetic (db/db) mice is associated with elevated low-density lipoprotein and triglyceride serum levels. <i>Heart and Vessels</i> , 2017, 32, 1025-1031.	0.5	12
54	A Lanosteryl Triterpene from <i>Protorhus longifolia</i> Improves Glucose Tolerance and Pancreatic Beta Cell Ultrastructure in Type 2 Diabetic Rats. <i>Molecules</i> , 2017, 22, 1252.	1.7	12

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55	Elevated T-helper 2 cytokine levels in high fat diet-fed C57BL/6 mice are attenuated by short-term 6-week treatment with a combination of low-dose aspirin and metformin. <i>Cytokine</i> , 2020, 128, 154999.	1.4	12
56	Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. <i>South African Journal of Botany</i> , 2020, 131, 143-150.	1.2	12
57	The Potential Role of Polyphenols in Modulating Mitochondrial Bioenergetics within the Skeletal Muscle: A Systematic Review of Preclinical Models. <i>Molecules</i> , 2021, 26, 2791.	1.7	12
58	Bioavailability Study of Isothiocyanates and Other Bioactive Compounds of <i>Brassica oleracea</i> L. var. <i>Italica</i> Boiled or Steamed: Functional Food or Dietary Supplement?. <i>Antioxidants</i> , 2022, 11, 209.	2.2	12
59	Antimycin A-induced mitochondrial dysfunction is consistent with impaired insulin signaling in cultured skeletal muscle cells. <i>Toxicology in Vitro</i> , 2021, 76, 105224.	1.1	11
60	Rooibos Flavonoids, Aspalathin, Isoorientin, and Orientin Ameliorate Antimycin A-Induced Mitochondrial Dysfunction by Improving Mitochondrial Bioenergetics in Cultured Skeletal Muscle Cells. <i>Molecules</i> , 2021, 26, 6289.	1.7	11
61	Natural killer cell levels in adults living with type 2 diabetes: a systematic review and meta-analysis of clinical studies. <i>BMC Immunology</i> , 2020, 21, 51.	0.9	10
62	Experimental models of lipid overload and their relevance in understanding skeletal muscle insulin resistance and pathological changes in mitochondrial oxidative capacity. <i>Biochimie</i> , 2022, 196, 182-193.	1.3	10
63	Activated monocytes as a therapeutic target to attenuate vascular inflammation and lower cardiovascular disease-risk in patients with type 2 diabetes: A systematic review of preclinical and clinical studies. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112579.	2.5	10
64	Impaired Glucose Tolerance is Associated with Enhanced Platelet-Monocyte Aggregation in Short-Term High-Fat Diet-Fed Mice. <i>Nutrients</i> , 2019, 11, 2695.	1.7	9
65	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. <i>Nutrients</i> , 2019, 11, 2850.	1.7	9
66	Body weight and its influence on hepcidin levels in patients with type 2 diabetes: A systematic review and meta-analysis of clinical studies. <i>Heliyon</i> , 2021, 7, e06429.	1.4	9
67	Ubiquinol supplementation in elderly patients undergoing aortic valve replacement: biochemical and clinical aspects. <i>Aging</i> , 2020, 12, 15514-15531.	1.4	9
68	Vitamin K: A vital micronutrient with the cardioprotective potential against diabetes-associated complications. <i>Life Sciences</i> , 2021, 286, 120068.	2.0	9
69	A systematic review exploring the significance of measuring epicardial fat thickness in correlation to B-type natriuretic peptide levels as prognostic and diagnostic markers in patients with or at risk of heart failure. <i>Heart Failure Reviews</i> , 2022, 27, 665-675.	1.7	9
70	T cell activation and cardiovascular risk in type 2 diabetes mellitus: a protocol for a systematic review and meta-analysis. <i>Systematic Reviews</i> , 2018, 7, 167.	2.5	8
71	Palmitate-induced toxicity is associated with impaired mitochondrial respiration and accelerated oxidative stress in cultured cardiomyocytes: The critical role of coenzyme Q9/10. <i>Toxicology in Vitro</i> , 2020, 68, 104948.	1.1	8
72	Carboxylative efficacy of <i>trans</i> and <i>cis</i> MK7 and comparison with other vitamin K isomers. <i>BioFactors</i> , 2022, , .	2.6	8

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73	A Review on the Antidiabetic Properties of Moringa oleifera Extracts: Focusing on Oxidative Stress and Inflammation as Main Therapeutic Targets. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	8
74	The mean platelet volume and atherosclerotic cardiovascular-risk factors in adults with obesity: a systematic review and meta-analysis of observational studies. <i>BMC Nutrition</i> , 2022, 8, 47.	0.6	7
75	The Role of Glucose and Fatty Acid Metabolism in the Development of Insulin Resistance in Skeletal Muscle. , 0, , .		6
76	Differential expression of glycoprotein IV on monocyte subsets following high-fat diet feeding and the impact of short-term low-dose aspirin treatment. <i>Metabolism Open</i> , 2020, 7, 100047.	1.4	6
77	Clinical use of N-acetyl cysteine during liver transplantation: Implications of oxidative stress and inflammation as therapeutic targets. <i>Biomedicine and Pharmacotherapy</i> , 2022, 147, 112638.	2.5	6
78	The triterpene, methyl-3 $\beta$ -hydroxylanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. <i>Phytomedicine</i> , 2021, 85, 153546.	2.3	5
79	The pleotropic effects of fluvastatin on complement-mediated T-cell activation in hypercholesterolemia. <i>Biomedicine and Pharmacotherapy</i> , 2021, 143, 112224.	2.5	5
80	Orientin Improves Substrate Utilization and the Expression of Major Genes Involved in Insulin Signaling and Energy Regulation in Cultured Insulin-Resistant Liver Cells. <i>Molecules</i> , 2021, 26, 6154.	1.7	5
81	Platelet function and cardiovascular risk in adult HIV-infected patients on HAART: a protocol for a systematic review and meta-analysis. <i>BMJ Open</i> , 2017, 7, e019468.	0.8	4
82	Lanosteryl triterpenes from <i>Protorhus longifolia</i> as a cardioprotective agent: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 155-166.	1.7	4
83	The aberrant expression of CD69 on peripheral T-helper cells in diet-induced inflammation is ameliorated by low-dose aspirin and metformin treatment. <i>Cellular Immunology</i> , 2021, 363, 104313.	1.4	4
84	The effect of underlying inflammation on iron metabolism, cardiovascular risk and renal function in patients with type 2 diabetes. <i>EJHaem</i> , 2021, 2, 357-365.	0.4	4
85	Association between the type of allergen and T-helper 2 mediated inflammation in allergic reactions: a systematic review and a meta-analysis. <i>Allergologia Et Immunopathologia</i> , 2022, 50, 37-50.	1.0	4
86	The Effect of Successful Antiretroviral Therapy on Immune Activation and Reconstitution in HIV Infected Adults: A Systematic Review and Meta-Analysis. <i>AIDS Reviews</i> , 2021, 23, 1-12.	0.5	3
87	A systematic review and meta-analysis on the regulation of programmed cell death-1 on T-cells in type 2 diabetes. <i>Medicine (United States)</i> , 2021, 100, e25488.	0.4	3
88	Circulating innate lymphoid cell subtypes and altered cytokine profiles following an atherogenic high-fat diet. <i>Innate Immunity</i> , 2021, 27, 525-532.	1.1	3
89	Expression of Caspase-3 in Circulating Innate Lymphoid Cells Subtypes Is Altered by Treatment with Metformin and Fluvastatin in High-Fat Diet Fed C57BL/6 Mice. <i>Cells</i> , 2022, 11, 1430.	1.8	3
90	Skeletal Muscle as a Therapeutic Target for Natural Products to Reverse Metabolic Syndrome. , 2018, , .		2

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91	The impact of immune checkpoint inhibitors in patients with chronic lymphocytic leukemia (CLL). <i>Medicine (United States)</i> , 2020, 99, e21167.	0.4	2
92	The impact of dimethyl sulfoxide on oxidative stress and cytotoxicity in various experimental models. , 2021, , 243-261.		2
93	Diet-Induced Obesity Promotes the Upregulation of Fas Expression on T-cells. <i>Biology</i> , 2021, 10, 217.	1.3	2
94	The role of innate lymphoid cells and T helper cell activation in type 2 diabetic patients: a protocol for a systematic review and meta-analysis. <i>Systematic Reviews</i> , 2019, 8, 229.	2.5	1
95	The prophylactic effects of vitamin K supplementation on coagulopathies associated with type 2 diabetes mellitus. <i>Medicine (United States)</i> , 2020, 99, e21143.	0.4	1
96	A phenylpropenoic acid glucoside (PPAG) of <i>Aspalathus linearis</i> protects H9c2 cardiomyocytes against hyperglycemia-induced cell apoptosis. <i>Planta Medica</i> , 2015, 81, .	0.7	1
97	The protective role of bioactive quinones in stress-induced senescence phenotype of endothelial cells exposed to cigarette smoke extract. <i>Free Radical Biology and Medicine</i> , 2021, 177, S88.	1.3	0