Phiwayinkosi Dludla

List of Publications by Year
in descending order

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	Experimental models of lipid overload and their relevance in understanding skeletal muscle insulin resistance and pathological changes in mitochondrial oxidative capacity. Biochimie, 2022, 196, 182-193.	1.3	10
2	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. Heart Failure Reviews, 2022, 27, 665-675.	1.7	9
3	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. Biomedicine and Pharmacotherapy, 2022, 146, 112579.	2.5	10
4	Bioavailability Study of Isothiocyanates and Other Bioactive Compounds of Brassica oleracea L. var. Italica Boiled or Steamed: Functional Food or Dietary Supplement?. Antioxidants, 2022, 11, 209.	2.2	12
5	Association between the type of allergen and T-helper 2 mediated inflammation in allergic reactions: a systematic review and a meta-analysis. Allergologia Et Immunopathologia, 2022, 50, 37-50.	1.0	4
6	Clinical use of N-acetyl cysteine during liver transplantation: Implications of oxidative stress and inflammation as therapeutic targets. Biomedicine and Pharmacotherapy, 2022, 147, 112638.	2.5	6
7	Rutin ameliorates inflammation and improves metabolic function: A comprehensive analysis of scientific literature. Pharmacological Research, 2022, 178, 106163.	3.1	36
8	Impact of physical exercise and caloric restriction in patients with type 2 diabetes: Skeletal muscle insulin resistance and mitochondrial dysfunction as ideal therapeutic targets. Life Sciences, 2022, 297, 120467.	2.0	21
9	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. Cells, 2022, 11, 1430.	1.8	3
10	The mean platelet volume and atherosclerotic cardiovascular-risk factors in adults with obesity: a systematic review and meta-analysis of observational studies. BMC Nutrition, 2022, 8, 47.	0.6	7
11	Carboxylative efficacy of trans and cis <scp>MK7</scp> and comparison with other vitamin K isomers. BioFactors, 2022, , .	2.6	8
12	Metformin and heart failureâ€“related outcomes in patients with or without diabetes: a systematic review of randomized controlled trials. Heart Failure Reviews, 2021, 26, 1437-1445.	1.7	23
13	Adipokines as a therapeutic target by metformin to improve metabolic function: A systematic review of randomized controlled trials. Pharmacological Research, 2021, 163, 105219.	3.1	31
14	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. Mitochondrion, 2021, 56, 25-34.	1.6	15
15	Tea consumption and its effects on primary and secondary prevention of coronary artery disease: Qualitative synthesis of evidence from randomized controlled trials. Clinical Nutrition ESPEN, 2021, 41, 77-87.	0.5	15
16	The impact of dimethyl sulfoxide on oxidative stress and cytotoxicity in various experimental models. , 2021, , 243-261.		2
17	The Effect of Successful Antiretroviral Therapy on Immune Activation and Reconstitution in HIV Infected Adults: A Systematic Review and Meta-Analysis. AIDS Reviews, 2021, 23, 1-12.	0.5	3
18	Body weight and its influence on hepcidin levels in patients with type 2 diabetes: A systematic review and meta-analysis of clinical studies. Heliyon, 2021, 7, e06429.	1.4	9

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19	Diet-Induced Obesity Promotes the Upregulation of Fas Expression on T-cells. Biology, 2021, 10, 217.	1.3	2
20	A systematic review and meta-analysis on the regulation of programmed cell death-1 on T-cells in type 2 diabetes. Medicine (United States), 2021, 100, e25488.	0.4	3
21	The triterpene, methyl-3Î²-hydroxylanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. Phytomedicine, 2021, 85, 153546.	2.3	5
22	The aberrant expression of CD69 on peripheral T-helper cells in diet-induced inflammation is ameliorated by low-dose aspirin and metformin treatment. Cellular Immunology, 2021, 363, 104313.	1.4	4
23	The Potential Role of Polyphenols in Modulating Mitochondrial Bioenergetics within the Skeletal Muscle: A Systematic Review of Preclinical Models. Molecules, 2021, 26, 2791.	1.7	12
24	The effect of underlying inflammation on iron metabolism, cardiovascular risk and renal function in patients with type 2 diabetes. EJHaem, 2021, 2, 357-365.	0.4	4
25	Role of Coenzyme Q10 in Health and Disease: An Update on the Last 10 Years (2010â€“2020). Antioxidants, 2021, 10, 1325.	2.2	39
26	Antimycin A-induced mitochondrial dysfunction is consistent with impaired insulin signaling in cultured skeletal muscle cells. Toxicology in Vitro, 2021, 76, 105224.	1.1	11
27	The pleotropic effects of fluvastatin on complement-mediated T-cell activation in hypercholesterolemia. Biomedicine and Pharmacotherapy, 2021, 143, 112224.	2.5	5
28	Rooibos Flavonoids, Aspalathin, Isoorientin, and Orientin Ameliorate Antimycin A-Induced Mitochondrial Dysfunction by Improving Mitochondrial Bioenergetics in Cultured Skeletal Muscle Cells. Molecules, 2021, 26, 6289.	1.7	11
29	Orientin Improves Substrate Utilization and the Expression of Major Genes Involved in Insulin Signaling and Energy Regulation in Cultured Insulin-Resistant Liver Cells. Molecules, 2021, 26, 6154.	1.7	5
30	Vitamin K: A vital micronutrient with the cardioprotective potential against diabetes-associated complications. Life Sciences, 2021, 286, 120068.	2.0	9
31	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. Antioxidants, 2021, 10, 1758.	2.2	13
32	The Implication of Low Dose Dimethyl Sulfoxide on Mitochondrial Function and Oxidative Damage in Cultured Cardiac and Cancer Cells. Molecules, 2021, 26, 7305.	1.7	13
33	Curcumin supplementation improves biomarkers of oxidative stress and inflammation in conditions of obesity, type 2 diabetes and NAFLD: updating the status of clinical evidence. Food and Function, 2021, 12, 12235-12249.	2.1	46
34	Circulating innate lymphoid cell subtypes and altered cytokine profiles following an atherogenic high-fat diet. Innate Immunity, 2021, 27, 525-532.	1.1	3
35	Drug-Induced Liver Injury: Clinical Evidence of N-Acetyl Cysteine Protective Effects. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-12.	1.9	35
36	The protective role of bioactive quinones in stress-induced senescence phenotype of endothelial cells exposed to cigarette smoke extract. Free Radical Biology and Medicine, 2021, 177, S88.	1.3	0

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37	A systematic review on the functional role of Th1/Th2 cytokines in type 2 diabetes and related metabolic complications. Cytokine, 2020, 126, 154892.	1.4	57
38	T-cell activation and cardiovascular risk in adults with type 2 diabetes mellitus: A systematic review and meta-analysis. Clinical Immunology, 2020, 210, 108313.	1.4	20
39	The Protective Role of Bioactive Quinones in Stress-induced Senescence Phenotype of Endothelial Cells Exposed to Cigarette Smoke Extract. Antioxidants, 2020, 9, 1008.	2.2	17
40	Palmitate-induced toxicity is associated with impaired mitochondrial respiration and accelerated oxidative stress in cultured cardiomyocytes: The critical role of coenzyme Q9/10. Toxicology in Vitro, 2020, 68, 104948.	1.1	8
41	The impact of immune checkpoint inhibitors in patients with chronic lymphocytic leukemia (CLL). Medicine (United States), 2020, 99, e21167.	0.4	2
42	Platelet activation in adult HIV-infected patients on antiretroviral therapy: a systematic review and meta-analysis. BMC Medicine, 2020, 18, 357.	2.3	17
43	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. Molecules, 2020, 25, 5645.	1.7	18
44	Differential expression of glycoprotein IV on monocyte subsets following high-fat diet feeding and the impact of short-term low-dose aspirin treatment. Metabolism Open, 2020, 7, 100047.	1.4	6
45	The prophylactic effects of vitamin K supplementation on coagulopathies associated with type 2 diabetes mellitus. Medicine (United States), 2020, 99, e21143.	0.4	1
46	Natural killer cell levels in adults living with type 2 diabetes: a systematic review and meta-analysis of clinical studies. BMC Immunology, 2020, 21, 51.	0.9	10
47	Linking LOXL2 to Cardiac Interstitial Fibrosis. International Journal of Molecular Sciences, 2020, 21, 5913.	1.8	17
48	N-Acetyl Cysteine Targets Hepatic Lipid Accumulation to Curb Oxidative Stress and Inflammation in NAFLD: A Comprehensive Analysis of the Literature. Antioxidants, 2020, 9, 1283.	2.2	31
49	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. Biomedicine and Pharmacotherapy, 2020, 131, 110785.	2.5	80
50	Coenzyme Q10 Supplementation Improves Adipokine Levels and Alleviates Inflammation and Lipid Peroxidation in Conditions of Metabolic Syndrome: A Meta-Analysis of Randomized Controlled Trials. International Journal of Molecular Sciences, 2020, 21, 3247.	1.8	30
51	Isoorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. Pharmacological Research, 2020, 158, 104867.	3.1	44
52	The impact of metformin and aspirin on T-cell mediated inflammation: A systematic review of in vitro and in vivo findings. Life Sciences, 2020, 255, 117854.	2.0	20
53	Obesity-related asthma in children is characterized by T-helper 1 rather than T-helper 2 immune response: A meta-analysis. Annals of Allergy, Asthma and Immunology, 2020, 125, 425-432.e4.	0.5	14
54	Isoorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. Metabolism Open, 2020, 6, 100037.	1.4	13

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55	Exploring the Comparative Efficacy of Metformin and Resveratrol in the Management of Diabetes-Associated Complications: A Systematic Review of Preclinical Studies. Nutrients, 2020, 12, 739.	1.7	21
56	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. Cytokine, 2020, 128, 154999.	1.4	12
57	Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. South African Journal of Botany, 2020, 131, 143-150.	1.2	12
58	Monocyte-mediated inflammation and cardiovascular risk factors in type 2 diabetes mellitus: A systematic review and meta-analysis of pre-clinical and clinical studies. JRSM Cardiovascular Disease, 2020, 9, 204800401990074.	0.4	13
59	Impact of Isoorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. Molecules, 2020, 25, 1773.	1.7	13
60	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O-Î²-d-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. Nutrients, 2020, 12, 1151.	1.7	13
61	Ubiquinol Ameliorates Endothelial Dysfunction in Subjects with Mild-to-Moderate Dyslipidemia: A Randomized Clinical Trial. Nutrients, 2020, 12, 1098.	1.7	26
62	The impact of coenzyme Q₁₀ on metabolic and cardiovascular disease profiles in diabetic patients: A systematic review and metaâ€analysis of randomized controlled trials. Endocrinology, Diabetes and Metabolism, 2020, 3, e00118.	1.0	24
63	Ubiquinol supplementation in elderly patients undergoing aortic valve replacement: biochemical and clinical aspects. Aging, 2020, 12, 15514-15531.	1.4	9
64	The beneficial effects of N-acetyl cysteine (NAC) against obesity associated complications: A systematic review of pre-clinical studies. Pharmacological Research, 2019, 146, 104332.	3.1	39
65	Impaired Glucose Tolerance is Associated with Enhanced Platelet-Monocyte Aggregation in Short-Term High-Fat Diet-Fed Mice. Nutrients, 2019, 11, 2695.	1.7	9
66	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. Systematic Reviews, 2019, 8, 229.	2.5	1
67	Obesity-induced inflammation and insulin resistance: A mini-review on T-cells. Metabolism Open, 2019, 3, 100015.	1.4	31
68	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. International Journal of Molecular Sciences, 2019, 20, 633.	1.8	56
69	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. PLoS ONE, 2019, 14, e0216172.	1.1	30
70	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. Molecules, 2019, 24, 1713.	1.7	22
71	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. Nutrients, 2019, 11, 2850.	1.7	9
72	N-Acetyl cysteine ameliorates hyperglycemia-induced cardiomyocyte toxicity by improving mitochondrial energetics and enhancing endogenous Coenzyme Q9/10 levels. Toxicology Reports, 2019, 6, 1240-1245.	1.6	21

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73	Lanosteryl triterpenes from Protorhus longifolia as a cardioprotective agent: a mini review. Heart Failure Reviews, 2019, 24, 155-166.	1.7	4
74	Inflammation and Oxidative Stress in an Obese State and the Protective Effects of Gallic Acid. Nutrients, 2019, 11, 23.	1.7	180
75	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. Toxicology in Vitro, 2019, 55, 134-139.	1.1	24
76	Pharmacogenomics of amlodipine and hydrochlorothiazide therapy and the quest for improved control of hypertension: a mini review. Heart Failure Reviews, 2019, 24, 343-357.	1.7	13
77	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. American Journal of Cardiovascular Drugs, 2018, 18, 283-298.	1.0	50
78	Aspalathin from Rooibos (Aspalathus linearis): A Bioactive C-glucosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. Planta Medica, 2018, 84, 568-583.	0.7	56
79	Skeletal Muscle as a Therapeutic Target for Natural Products to Reverse Metabolic Syndrome. , 2018, , .		2
80	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. Toxicology Reports, 2018, 5, 1014-1020.	1.6	60
81	Protective effect of triterpenes against diabetes-induced Î²-cell damage: An overview of in vitro and in vivo studies. Pharmacological Research, 2018, 137, 179-192.	3.1	22
82	T cell activation and cardiovascular risk in type 2 diabetes mellitus: a protocol for a systematic review and meta-analysis. Systematic Reviews, 2018, 7, 167.	2.5	8
83	Uncoupling proteins as a therapeutic target to protect the diabetic heart. Pharmacological Research, 2018, 137, 11-24.	3.1	24
84	Aspalathin, a C-glucosyl Dihydrochalcone From Rooibos Improves the Hypoglycemic Potential of Metformin in Type 2 Diabetic (db/db) Mice. Physiological Research, 2018, 67, 813-818.	0.4	15
85	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. Heart and Vessels, 2017, 32, 1025-1031.	0.5	12
86	Cardioprotective potential of N-acetyl cysteine against hyperglycaemia-induced oxidative damage: a protocol for a systematic review. Systematic Reviews, 2017, 6, 96.	2.5	21
87	Platelet function and cardiovascular risk in adult HIV-infected patients on HAART: a protocol for a systematic review and meta-analysis. BMJ Open, 2017, 7, e019468.	0.8	4
88	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. Molecules, 2017, 22, 219.	1.7	40
89	A Lanosteryl Triterpene from Protorhus longifolia Improves Glucose Tolerance and Pancreatic Beta Cell Ultrastructure in Type 2 Diabetic Rats. Molecules, 2017, 22, 1252.	1.7	12
90	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. Molecules, 2017, 22, 129.	1.7	64

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91	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-Î²-D-glucoside. Nutrition and Metabolism, 2017, 14, 45.	1.3	78
92	Phenylpyruvic Acid-2-O-Î²-D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. Planta Medica, 2016, 82, 1468-1474.	0.7	20
93	Aspalathin, a dihydrochalcone Câ€glucoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. Molecular Nutrition and Food Research, 2016, 60, 922-934.	1.5	70
94	A phenylpropenoic acid glucoside (PPAG) of Aspalathus linearis protects H9c2 cardiomyocytes against hyperglycemia-induced cell apoptosis. Planta Medica, 2015, 81, .	0.7	1
95	The cardioprotective effect of an aqueous extract of fermented rooibos (Aspalathus linearis) on cultured cardiomyocytes derived from diabetic rats. Phytomedicine, 2014, 21, 595-601.	2.3	51
96	The Role of Glucose and Fatty Acid Metabolism in the Development of Insulin Resistance in Skeletal Muscle. , 0, , .		6
97	A Review on the Antidiabetic Properties of Moringa oleifera Extracts: Focusing on Oxidative Stress and Inflammation as Main Therapeutic Targets. Frontiers in Pharmacology, 0, 13, .	1.6	8