

Rabia Johnson

List of Publications by Year in descending order

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71
papers

2,298
citations

226546

25
h-index

252701

43
g-index

81
all docs

81
docs citations

81
times ranked

3906
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinfection and Mixed Infection Cause Changing Mycobacterium tuberculosis Drug-Resistance Patterns. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 636-642.	6.6	175
2	Polyphenols, autophagy and doxorubicin-induced cardiotoxicity. Life Sciences, 2017, 180, 160-170.	4.4	108
3	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.	5.8	88
4	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-β-D-glucoside. Nutrition and Metabolism, 2017, 14, 45.	3.0	80
5	Amelioration of palmitate-induced insulin resistance in C2C12 muscle cells by rooibos (Aspalathus linearis) extract. Journal of Cellular Biochemistry, 2017, 142, 107-114.	3.4	79
6	Aspalathin, a dihydrochalcone C-glycoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. Molecular Nutrition and Food Research, 2016, 60, 922-934.	3.9	72
7	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.	3.4	67
8	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. Molecules, 2017, 22, 129.	3.9	66
9	Aspalathin improves glucose and lipid metabolism in 3T3-L1 adipocytes exposed to palmitate. Molecular Nutrition and Food Research, 2015, 59, 2199-2208.	3.9	62
10	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. International Journal of Molecular Sciences, 2019, 20, 633.	4.2	60
11	Aspalathin from Rooibos (Aspalathus linearis): A Bioactive C-glycosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. Planta Medica, 2018, 84, 568-583.	1.8	58
12	Blood-Based DNA Methylation Biomarkers for Type 2 Diabetes: Potential for Clinical Applications. Frontiers in Endocrinology, 2018, 9, 744.	3.5	58
13	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.	2.3	53
14	The cardioprotective effect of an aqueous extract of fermented rooibos (Aspalathus linearis) on cultured cardiomyocytes derived from diabetic rats. Phytomedicine, 2014, 21, 595-601.	5.4	51
15	Effects of fermented rooibos (Aspalathus linearis) on adipocyte differentiation. Phytomedicine, 2014, 21, 109-117.	5.4	51
16	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. Molecules, 2017, 22, 1589.	3.9	49
17	Molecular insights into the pathophysiology of doxorubicin-induced cardiotoxicity: a graphical representation. Archives of Toxicology, 2022, 96, 1541-1550.	4.3	43
18	Clonal Expansion of a Globally Disseminated Lineage of Mycobacterium tuberculosis with Low IS 6110 Copy Numbers. Journal of Clinical Microbiology, 2004, 42, 5774-5782.	4.4	42

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19	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. <i>Molecules</i> , 2017, 22, 219.	3.9	41
20	Diet-induced hypothalamic dysfunction and metabolic disease, and the therapeutic potential of polyphenols. <i>Molecular Metabolism</i> , 2019, 27, 1-10.	6.6	38
21	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.	5.2	38
22	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.	4.2	32
23	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.	2.5	31
24	Prevalence of Hypertension and Its Associated Risk Factors in a Rural Black Population of Mthatha Town, South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1215.	2.7	31
25	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. <i>Frontiers in Endocrinology</i> , 2021, 12, 833544.	3.5	31
26	Tracking the circulating SARS-CoV-2 variant of concern in South Africa using wastewater-based epidemiology. <i>Scientific Reports</i> , 2022, 12, 1182.	3.4	31
27	Qualitative and quantitative detection of SARS-CoV-2 RNA in untreated wastewater in Western Cape Province, South Africa. <i>South African Medical Journal</i> , 2021, 111, 198.	0.8	28
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.	3.9	27
29	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	2.5	24
30	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.	4.2	24
31	Protective effect of triterpenes against diabetes-induced β -cell damage: An overview of in vitro and in vivo studies. <i>Pharmacological Research</i> , 2018, 137, 179-192.	7.2	22
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.	3.4	22
33	The Prophylactic Effect of Pinocembrin Against Doxorubicin-Induced Cardiotoxicity in an In Vitro H9c2 Cell Model. <i>Frontiers in Pharmacology</i> , 2020, 11, 1172.	3.6	22
34	Detrimental Effects of Lipid Peroxidation in Type 2 Diabetes: Exploring the Neutralizing Influence of Antioxidants. <i>Antioxidants</i> , 2022, 11, 2071.	5.2	22
35	Phenylpyruvic Acid-2-O- β -D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	1.8	20
36	Linking LOXL2 to Cardiac Interstitial Fibrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5913.	4.2	20

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37	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.	3.9	17
38	Spatial and Temporal Trends of SARS-CoV-2 RNA from Wastewater Treatment Plants over 6 Weeks in Cape Town, South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12085.	2.7	17
39	Diet-induced DNA methylation within the hypothalamic arcuate nucleus and dysregulated leptin and insulin signaling in the pathophysiology of obesity. <i>Food Science and Nutrition</i> , 2019, 7, 3131-3145.	3.5	16
40	Hypertension in African Populations: Review and Computational Insights. <i>Genes</i> , 2021, 12, 532.	2.4	16
41	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.	3.9	16
42	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.	4.2	14
43	Prevention of Anthracycline-Induced Cardiotoxicity: The Good and Bad of Current and Alternative Therapies. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	2.5	14
44	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.	1.2	13
45	Myocardial Glucose Clearance by Aspalathin Treatment in Young, Mature, and Obese Insulin-Resistant Rats. <i>Planta Medica</i> , 2018, 84, 75-82.	1.8	12
46	Molecular basis of the anti-hyperglycemic activity of RA-3 in hyperlipidemic and streptozotocin-induced type 2 diabetes in rats. <i>Diabetology and Metabolic Syndrome</i> , 2019, 11, 27.	2.7	12
47	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.	2.6	12
48	Identification of potential biomarkers for predicting the early onset of diabetic cardiomyopathy in a mouse model. <i>Scientific Reports</i> , 2020, 10, 12352.	3.4	11
49	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.	4.2	9
50	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.	2.5	9
51	Drug susceptibility testing using molecular techniques can enhance tuberculosis diagnosis. <i>Journal of Infection in Developing Countries</i> , 2008, 2, 40-5.	1.1	8
52	In Utero One-Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900377.	3.9	7
53	Methylenetetrahydrofolate Reductase Polymorphism (rs1801133) and the Risk of Hypertension among African Populations: A Narrative Synthesis of Literature. <i>Genes</i> , 2022, 13, 631.	2.4	7
54	Lanosteryl triterpenes from <i>Protorhus longifolia</i> as a cardioprotective agent: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 155-166.	3.9	5

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55	The triterpene, methyl-3 β -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.	5.4	5
56	Cardioprotective Function of Green Rooibos (<i>Aspalathus linearis</i>) Extract Supplementation in Ex Vivo Ischemic Prediabetic Rat Hearts. <i>Planta Medica</i> , 2020, 88, .	1.8	5
57	A Lanosteryl triterpene from <i>Protorhus longifolia</i> augments insulin signaling in type 1 diabetic rats. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 265.	3.7	4
58	Genetic association of solute carrier transporter gene variants with metformin response. <i>Balkan Journal of Medical Genetics</i> , 2021, 24, 47-56.	0.5	4
59	Socio-demographic and modifiable risk factors of diabetes and hypertension among resource constrained patients from rural areas in Mdantsane Township in South Africa. <i>African Health Sciences</i> , 2020, 20, 1344-1354.	0.7	3
60	Cafeteria diet induces global and <i>Slc27a3</i> -specific hypomethylation in male Wistar rats. <i>Adipocyte</i> , 2021, 10, 108-118.	2.9	3
61	COVID-19 vaccine roll-out in South Africa: The added value of wastewater surveillance for SARS-CoV-2. <i>South African Medical Journal</i> , 2021, 111, 524.	0.8	3
62	Evaluation of the suitability of 19 pharmacogenomics biomarkers for individualized metformin therapy for type 2 diabetes patients. <i>Drug Metabolism and Drug Interactions</i> , 2020, 35, .	0.6	2
63	Using Wastewater Surveillance to Compare COVID-19 Outbreaks during the Easter Holidays over a 2-Year Period in Cape Town, South Africa. <i>Viruses</i> , 2023, 15, 162.	3.4	2
64	Measurement Tools and Utility of Hair Analysis for Screening Adherence to Antihypertensive Medication. <i>Global Heart</i> , 2023, 18, .	1.4	2
65	A phenylpropenoic acid glucoside (PPAG) of <i>Aspalathus linearis</i> protects H9c2 cardiomyocytes against hyperglycemia-induced cell apoptosis. <i>Planta Medica</i> , 2015, 81, .	1.8	1
66	Cross-sectional study of the association of 5 single nucleotide polymorphisms with enalapril treatment response among South African adults with hypertension. <i>Medicine (United States)</i> , 2021, 100, e27836.	1.1	1
67	<i>Sclerocarya birrea</i> (Marula) Extract Inhibits Hepatic Steatosis in db/db Mice. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3782.	2.7	1
68	Transmission Dynamics of MDR-TB and XDR-TB in Areas of Varying HIV Prevalence. <i>International Journal of Infectious Diseases</i> , 2008, 12, e45-e46.	3.3	0
69	Insight Into The Molecular Basis Of The Anti-Hyperglycemic Activity Of RA-3 In Type 2 Diabetic Rats And Its Cardioprotective Potential In Cultured Cardiomyoblasts. <i>Metabolism: Clinical and Experimental</i> , 2021, 116, 154646.	3.6	0
70	Promoter haplotype structure of solute carrier 22 member 2 (SLC22A2) in the Xhosa population of South Africa and their differential effect on gene expression. <i>Gene</i> , 2022, 820, 146292.	2.3	0
71	Doxorubicin-Induced Cardiomyopathy: A Preliminary Study on the Cardioprotective Benefits of 7-Hydroxyflavanone. <i>International Journal of Molecular Sciences</i> , 2023, 24, 15395.	4.2	0