Stephen A Adefegha

List of Publications by Year
in descending order

102	2,559	218677	223800
papers	citations	26 h-index	46 g-index

103	103	103	3280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative Study on the Inhibitory Effect of Caffeic and Chlorogenic Acids on Key Enzymes Linked to Alzheimerâ€™s Disease and Some Pro-oxidant Induced Oxidative Stress in Ratsâ€™ Brain-In Vitro. Neurochemical Research, 2013, 38, 413-419.	3.3	242
2	Caffeic and chlorogenic acids inhibit key enzymes linked to type 2 diabetes (in vitro): a comparative study. Journal of Basic and Clinical Physiology and Pharmacology, 2015, 26, 165-170.	1.3	221
3	Influence of gallic acid on Î±-amylase and Î±-glucosidase inhibitory properties of acarbose. Journal of Food and Drug Analysis, 2016, 24, 627-634.	1.9	158
4	Functional Foods and Nutraceuticals as Dietary Intervention in Chronic Diseases; Novel Perspectives for Health Promotion and Disease Prevention. Journal of Dietary Supplements, 2018, 15, 977-1009.	2.6	121
5	Antihyperglycemic, hypolipidemic, hepatoprotective and antioxidative effects of dietary clove (Szyzgium aromaticum) bud powder in a high-fat diet/streptozotocin-induced diabetes rat model. Journal of the Science of Food and Agriculture, 2014, 94, 2726-2737.	3.5	90
6	Antioxidant and antidiabetic effects of gallic and protocatechuic acids: a structureâ€“function perspective. Comparative Clinical Pathology, 2015, 24, 1579-1585.	0.7	83
7	Inhibition of key enzymes linked to type 2 diabetes and sodium nitroprusside-induced lipid peroxidation in rat pancreas by water extractable phytochemicals from some tropical spices. Pharmaceutical Biology, 2012, 50, 857-865.	2.9	79
8	In vitro inhibition activity of polyphenol-rich extracts from Syzygium aromaticum (L.) Merr. & Perry (Clove) buds against carbohydrate hydrolyzing enzymes linked to type 2 diabetes and Fe2+-induced lipid peroxidation in rat pancreas. Asian Pacific Journal of Tropical Biomedicine, 2012, 2, 774-781.	1.2	70
9	Berberine protects against memory impairment and anxiogenic-like behavior in rats submitted to sporadic Alzheimerâ€™s-like dementia: Involvement of acetylcholinesterase and cell death. NeuroToxicology, 2016, 57, 241-250.	3.0	58
10	Distribution of Phenolic Contents, Antidiabetic Potentials, Antihypertensive Properties, and Antioxidative Effects of Soursop (Annona muricataL.) Fruit PartsIn Vitro. Biochemistry Research International, 2015, 2015, 1-8.	3.3	55
11	ENHANCEMENT OF TOTAL PHENOLICS AND ANTIOXIDANT PROPERTIES OF SOME TROPICAL GREEN LEAFY VEGETABLES BY STEAM COOKING. Journal of Food Processing and Preservation, 2011, 35, 615-622.	2.0	51
12	Antioxidant and inhibitory properties of Clerodendrum volubile leaf extracts on key enzymes relevant to non-insulin dependent diabetes mellitus and hypertension. Journal of Taibah University for Science, 2016, 10, 521-533.	2.5	45
13	Inhibition of cyclophosphamide-induced oxidative stress in rat brain by polar and non-polar extracts of Annatto (Bixa orellana) seeds. Experimental and Toxicologic Pathology, 2011, 63, 257-262.	2.1	43
14	Alterations of Na+/K+-ATPase, cholinergic and antioxidant enzymes activity by protocatechuic acid in cadmium-induced neurotoxicity and oxidative stress in Wistar rats. Biomedicine and Pharmacotherapy, 2016, 83, 559-568.	5.6	40
15	Essential Oil Composition, Antioxidant, Antidiabetic and Antihypertensive Properties of Two <i>Afromomum</i> Species. Journal of Oleo Science, 2017, 66, 51-63.	1.4	40
16	Modulatory effect of protocatechuic acid on cadmium induced nephrotoxicity and hepatoxicity in rats in vivo. SpringerPlus, 2015, 4, 619.	1.2	37
17	Modulatory effect of quercetin and its glycosylated form on key enzymes and antioxidant status in rats penile tissue of paroxetine-induced erectile dysfunction. Biomedicine and Pharmacotherapy, 2018, 107, 1473-1479.	5.6	35
18	Phytochemistry and mode of action of some tropical spices in the management of type-2 diabetes and hypertension. African Journal of Pharmacy and Pharmacology, 2013, 7, 332-346.	0.3	33

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19	Guarana (Paullinia cupana) ameliorates memory impairment and modulates acetylcholinesterase activity in Poloxamer-407-induced hyperlipidemia in rat brain. Physiology and Behavior, 2017, 168, 11-19.	2.1	32
20	Cognitive Enhancing and Antioxidative Potentials of Velvet Beans (Mucuna pruriens) and Horseradish (Moringa oleifera) Seeds Extracts: A Comparative Study. Journal of Food Biochemistry, 2017, 41, e12292.	2.9	31
21	Acetylcholinesterase (AChE) inhibitory activity, antioxidant properties and phenolic composition of two Aframomum species. Journal of Basic and Clinical Physiology and Pharmacology, 2012, 23, 153-161.	1.3	30
22	Phenolic Composition and Evaluation of Methanol and Aqueous Extracts of Bitter Gourd (Momordica charantia L) Leaves on Angiotensin-I-Converting Enzyme and Some Pro-oxidant-Induced Lipid Peroxidation In Vitro. Journal of Evidence-Based Complementary & Alternative Medicine, 2016, 21, NP67-NP76.	1.5	30
23	Phenolic constituents and modulatory effects of Raffia palm leaf (Raphia hookeri) extract on carbohydrate hydrolyzing enzymes linked to type-2 diabetes. Journal of Traditional and Complementary Medicine, 2017, 7, 494-500.	2.7	30
24	Erectogenic, Antihypertensive, Antidiabetic, Anti-Oxidative Properties and Phenolic Compositions of Almond Fruit (Terminalia catappaL.) Parts (Hull and Drupe) -in vitro. Journal of Food Biochemistry, 2017, 41, e12309.	2.9	30
25	Attenuation of cyclophosphamide-induced neurotoxicity in rat by yellow dye extract from root of Brimstone tree (Morinda lucida). Experimental and Toxicologic Pathology, 2012, 64, 591-596.	2.1	28
26	Modulatory Effects of Ferulic Acid on Cadmium-Induced Brain Damage. Journal of Evidence-Based Complementary & Alternative Medicine, 2016, 21, NP56-NP61.	1.5	28
27	Comparative Effects of Alkaloid Extracts from Aframomum melegueta (Alligator Pepper) and Aframomum danielli (Bastered Melegueta) on Enzymes Relevant to Erectile Dysfunction. Journal of Dietary Supplements, 2017, 14, 542-552.	2.6	28
28	Nutritional properties, sensory qualities and glycemic response of biscuits produced from pigeon pea-wheat composite flour. Journal of Food Biochemistry, 2018, 42, e12505.	2.9	27
29	Water Extractable Phytochemicals from Some Nigerian Spices Inhibit Fe2+- Induced Lipid Peroxidation in Ratâ€™s Brain â€“ In Vitro. Journal of Food Processing & Technology, 2011, 02, .	0.2	27
30	Hesperidin attenuates inflammation and oxidative damage in pleural exudates and liver of rat model of pleurisy. Redox Report, 2017, 22, 563-571.	4.5	25
31	Aqueous extracts of two tropical ethnobotanicals (Tetrapleura tetraptera and Quassia undulata) improved spatial and non-spatial working memories in scopolamine-induced amnesic rats: Influence of neuronal cholinergic and antioxidant systems. Biomedicine and Pharmacotherapy, 2018, 99, 198-204.	5.6	23
32	Streptozotocin-induced diabetes in rats: effects of White Butterfly (Clerodendrum volubile) leaves on blood glucose levels, lipid profile and antioxidant status. Toxicology Mechanisms and Methods, 2018, 28, 573-586.	2.7	21
33	Effect of dietary supplementation of tiger nut (Cyperus esculentus l.) and walnut (Tetracarpidium conophorum mÃ¼ll. Arg.) on sexual behavior, hormonal level, and antioxidant status in male rats. Journal of Food Biochemistry, 2017, 41, e12351.	2.9	20
34	Protective mechanisms of protocatechuic acid against doxorubicin-induced nephrotoxicity in rat model. Journal of Basic and Clinical Physiology and Pharmacology, 2019, 30, .	1.3	20
35	Effect of p â€coumaric acid on the erectogenic enzyme activities and nonâ€protein thiol level in the penile tissue of normal and doxorubicinâ€induced oxidative stress male rat. Andrologia, 2019, 51, e13281.	2.1	20
36	Comparative Study on the Phenolic Content, Antioxidant Properties and HPLC Fingerprinting of Three Varieties of C elosia Species. Journal of Food Biochemistry, 2014, 38, 575-583.	2.9	19

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37	Chromatographic Fingerprint Analysis, Acetylcholinesterase Inhibitory Properties and Antioxidant Activities of Redflower Ragleaf (C rassocephalum Crepidioides) Extract. Journal of Food Biochemistry, 2016, 40, 109-119.	2.9	19
38	Effect of diets supplemented with Ethiopian pepper [Xylopia aethiopica (Dun.) A. Rich (Annonaceae)] and Ashanti pepper [Piper guineense Schumach. et Thonn (Piperaceae)] on some biochemical parameters in normal rats. Asian Pacific Journal of Tropical Biomedicine, 2012, 2, S558-S566.	1.2	18
39	Neuroprotective effects of pretreatment with quercetin as assessed by acetylcholinesterase assay and behavioral testing in poloxamer-407 induced hyperlipidemic rats. Biomedicine and Pharmacotherapy, 2017, 88, 1054-1063.	5.6	18
40	African crocus (Curculigo pilosa) and wonderful kola (Buchholzia coriacea) seeds modulate critical enzymes relevant to erectile dysfunction and oxidative stress. Journal of Complementary and Integrative Medicine, 2018, 15, .	0.9	18
41	Alteration of starch hydrolyzing enzyme inhibitory properties, antioxidant activities, and phenolic profile of clove buds (S yzygium aromaticum L.) by cooking duration. Food Science and Nutrition, 2016, 4, 250-260.	3.4	17
42	Quercetin, rutin, and their combinations modulate penile phosphodiesterase-5â€², arginase, acetylcholinesterase, and angiotensin-I-converting enzyme activities: a comparative study. Comparative Clinical Pathology, 2018, 27, 773-780.	0.7	17
43	Effect of quercetin on <scp>Eâ€NTPDase</scp>/<scp>Eâ€ADA</scp> activities and cytokine secretion of complete Freund adjuvantâ€“induced arthritic rats. Cell Biochemistry and Function, 2019, 37, 474-485.	2.9	17
44	Alkaloid extracts from shea butter and breadfruit as potential inhibitors of monoamine oxidase, cholinesterases, and lipid peroxidation in ratsâ€™ brain homogenates: a comparative study. Comparative Clinical Pathology, 2016, 25, 1213-1219.	0.7	16
45	Modulation of reactive oxygen species production, apoptosis and cell cycle in pleural exudate cells of carrageenan-induced acute inflammation in rats by rutin. Food and Function, 2017, 8, 4459-4468.	4.6	16
46	Sensory Qualities, Antioxidant Activities, and in vitro Inhibition of Enzymes Relevant to Type-2 Diabetes by Biscuits Produced from 5 Wheat-Bambara Groundnut Flour Blends. International Journal of Food Engineering, 2013, 9, 17-28.	1.5	15
47	Polyphenol contents and antioxidants activities of biscuits produced from ginger-enriched pigeon pea-wheat composite flour blends. Journal of Food Biochemistry, 2018, 42, e12526.	2.9	15
48	Antilipemic and hypocholesteremic activities of Globimetula braunii in rats. Experimental and Toxicologic Pathology, 2011, 63, 657-661.	2.1	14
49	Effects of chlorogenic acid on adenine nucleotides hydrolyzing enzyme activities and expression in platelets of rats experimentally demyelinated with ethidium bromide. Biomedicine and Pharmacotherapy, 2016, 81, 363-370.	5.6	14
50	Chemoprotective effect of Vernonia amygdalina Del. (Astereacea) against 2-acetylaminofluorene-induced hepatotoxicity in rats. Toxicology and Industrial Health, 2016, 32, 47-58.	1.4	14
51	Comparative effects of horseradish (Moringa oleifera) leaves and seeds on blood pressure and crucial enzymes relevant to hypertension in rat. PharmaNutrition, 2019, 9, 100152.	1.7	14
52	InÂvitro antioxidant activities of African birch (Anogeissus leiocarpus) leaf and its effect on the Î±-amylase and Î±-glucosidase inhibitory properties of acarbose. Journal of Taibah University Medical Sciences, 2016, 11, 236-242.	0.9	13
53	Alligator pepper/Grain of Paradise (Aframomum melegueta) modulates Angiotensin-I converting enzyme activity, lipid profile and oxidative imbalances in a rat model of hypercholesterolemia. Pathophysiology, 2016, 23, 191-202.	2.2	13
54	Sepsis induced by cecal ligation and perforation (CLP) alters nucleotidase activities in platelets of rats. Microbial Pathogenesis, 2017, 111, 345-351.	2.9	12

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55	Ashanti pepper (Piper guineense Schumach et Thonn) attenuates carbohydrate hydrolyzing, blood pressure regulating and cholinergic enzymes in experimental type 2 diabetes rat model. Journal of Basic and Clinical Physiology and Pharmacology, 2017, 28, 19-30.	1.3	12
56	Glycemic Response in Diabetic Subjects to Biscuits Produced from Blends of Pigeon Pea and Wheat Flour. Plant Foods for Human Nutrition, 2019, 74, 553-559.	3.2	12
57	Antioxidant properties of eugenol, butylated hydroxylanisole, and butylated hydroxyl toluene with key biomolecules relevant to Alzheimerâ€™s diseasesâ€"In vitro. Journal of Food Biochemistry, 2021, 45, e13276.	2.9	12
58	Role of Oxidative Stress in the Pathophysiology of Type 2 Diabetes and Cardiovascular Diseases. , 2020, , 277-297.		12
59	Platelet aggregation and serum adenosine deaminase (ADA) activity in pregnancy associated with diabetes, hypertension and HIV. Cell Biochemistry and Function, 2016, 34, 343-350.	2.9	11
60	Peripheral blood mononuclear cells from rat model of pleurisy: The effects of hesperidin on ectoenzymes activity, apoptosis, cell cycle and reactive oxygen species production. Biomedicine and Pharmacotherapy, 2017, 91, 278-286.	5.6	11
61	Effects of combined crude alkaloid-rich extracts from alligator pepper (Aframomum melegueta) and bastered melegueta (Aframomum danielli) on the enzymes crucial to erectile dysfunction-in vitro. Journal of Food Biochemistry, 2018, 42, e12550.	2.9	11
62	Protocatechuic acid mitigates adriamycin-induced reproductive toxicities and hepatocellular damage in rats. Comparative Clinical Pathology, 2018, 27, 1681-1689.	0.7	11
63	Thyme (Thymus vulgaris) leaf extract modulates purinergic and cholinergic enzyme activities in the brain homogenate of 5-fluorouracil administered rats. Drug and Chemical Toxicology, 2020, 43, 43-50.	2.3	11
64	Effects of berberine on cholinesterases and monoamine oxidase activities, and antioxidant status in the brain of streptozotocin (STZ)-induced diabetic rats. Journal of Basic and Clinical Physiology and Pharmacology, 2022, 33, 389-397.	1.3	11
65	Anticholinesterase activity and phenolic profile of two medicinal plants (Quassia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34 of Food Biochemistry, 2018, 42, e12497.	2.9	10
66	Interferon gamma/interleukin-4 modulation, anti-inflammatory and antioxidant effects of hesperidin in complete Freundâ€™s adjuvant (CFA)-induced arthritis model of rats. Immunopharmacology and Immunotoxicology, 2020, 42, 509-520.	2.4	10
67	Modulatory effect of eugenol on arginase, nucleotidase, and adenosine deaminase activities of platelets in a carrageenan-induced arthritis rat model: A possible anti-arthritic mechanism of eugenol. Biomedicine and Pharmacotherapy, 2018, 106, 1616-1623.	5.6	9
68	Increased oxidative stress alters nucleosides metabolite levels in sickle cell anemia. Redox Report, 2017, 22, 451-459.	4.5	8
69	Impact of pasting on starch composition, estimated glycemic index, phenolic constituents, antioxidant activities and antidiabetic properties of flour produced from cocoyam (Colocasia esculenta) corm. Journal of Food Biochemistry, 2018, 42, e12514.	2.9	8
70	Changes in inflammatory/cardiac markers of HIV positive patients. Microbial Pathogenesis, 2018, 114, 264-268.	2.9	8
71	Î²-caryophyllene improves sexual performance via modulation of crucial enzymes relevant to erectile dysfunction in rats. Toxicological Research, 2021, 37, 249-260.	2.1	8
72	Modulatory effect of methanolic extract of Vernonia amygdalina (MEVA) on tertâ€butyl hydroperoxideâ€“induced erythrocyte haemolysis. Cell Biochemistry and Function, 2013, 31, 545-550.	2.9	7

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73	Altered E-NTPDase/E-ADA activities and CD39 expression in platelets of sickle cell anemia patients. Biomedicine and Pharmacotherapy, 2016, 79, 241-246.	5.6	7
74	Characterization of Eâ€NTPDase (EC 3.6.1.5) activity in hepatic lymphocytes: A different activity profile from peripheral lymphocytes. Cell Biochemistry and Function, 2017, 35, 105-112.	2.9	7
75	Sildenafil, a phosphodiesterase-5 inhibitor, offers protection against carbon tetrachloride-induced hepatotoxicity in rat. Journal of Basic and Clinical Physiology and Pharmacology, 2018, 29, 29-35.	1.3	7
76	NTPDase, 5'-nucleotidase and adenosine deaminase activities and purine levels in serum of sickle cell anemia patients. Journal of Applied Biomedicine, 2018, 16, 208-213.	1.7	7
77	Dietary supplementation with Ethiopian pepper (Xylopia aethiopica) modulates angiotensin-I converting enzyme activity, antioxidant status and extenuates hypercholesterolemia in high cholesterol fed Wistar rats. PharmaNutrition, 2018, 6, 9-16.	1.7	6
78	Pasting alters glycemic index, antioxidant activities, and starchâ€hydrolyzing enzyme inhibitory properties of whole wheat flour. Food Science and Nutrition, 2018, 6, 1591-1600.	3.4	6
79	Influence of eugenol on oxidative stress biomarkers in the liver of carrageenan-induced arthritis rats. Journal of Basic and Clinical Physiology and Pharmacology, 2019, 30, 185-193.	1.3	6
80	Sensory attributes, nutritional qualities, and glycemic indices of bread blends produced from cocoa powder flavored yellowâ€fleshed cassavaâ€wheat composite flours. Journal of Food Processing and Preservation, 2020, 44, e14673.	2.0	6
81	Uncaria tomentosa improves cognition, memory and learning in middle-aged rats. Experimental Gerontology, 2020, 138, 111016.	2.8	6
82	Comparative effects of berberine and piperine on the neuroprotective potential of neostigmine. Journal of Complementary and Integrative Medicine, 2021, 18, 491-497.	0.9	6
83	Food bioactives: the food image behind the curtain of health promotion and prevention against several degenerative diseases. Studies in Natural Products Chemistry, 2022, , 391-421.	1.8	6
84	Extracts from Almond (Terminalia catappa) leaf and stem bark mitigate the activities of crucial enzymes and oxidative stress associated with hypertension in cyclosporine Aâ€stressed rats. Journal of Food Biochemistry, 2021, 45, e13435.	2.9	5
85	Purple onion in combination with garlic exerts better ameliorative effects on selected biomarkers in high-sucrose diet-fed fruit fly (Drosophila melanogaster). Comparative Clinical Pathology, 2020, 29, 713-720.	0.7	5
86	Effect of oral berberine administration on the renal profiles of adenosine deaminase, arginase, and nitric oxide in streptozotocin-induced diabetic nephropathy of rats. Comparative Clinical Pathology, 2022, 31, 255-263.	0.7	5
87	Effect of aqueous extract from root and leaf of Sphenocentrum jollyanum pierre on wounds of diabetic rats: Influence on wound tissue cytokines, vascular endothelial growth factor and microbes. Journal of Ethnopharmacology, 2022, 293, 115266.	4.1	5
88	Moringa oleifera modulates cholinergic and purinergic enzymes activity in BV-2 microglial cells. Metabolic Brain Disease, 2021, 36, 627-638.	2.9	4
89	Evaluation of different almond (Terminalia catappa) extracts against oxidative stress induced by cyclosporine in brain and liver of rats. Journal of Complementary and Integrative Medicine, 2021, .	0.9	4
90	Comparative study on the interaction of eugenol, Butylated hydroxylanisole, and Butylated hydroxyl toluene with some crucial enzymes linked to erectile dysfunction. Comparative Clinical Pathology, 2018, 27, 1699-1706.	0.7	3

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91	Effects of Nauclea latifolia and Uvaria afzelii stem bark extracts on nitric oxide and biomolecules in platelets of complete Freund adjuvant-induced arthritic female rats. Comparative Clinical Pathology, 2021, 30, 255-266.	0.7	3
92	Berberine mitigates diabetes-induced erectile dysfunction in rats through modulation of antioxidant status and critical enzyme activity. Comparative Clinical Pathology, 2021, 30, 181-189.	0.7	3
93	Distinct kinetics for nucleotide hydrolysis in lymphocytes isolated from blood, spleen and cervical lymph nodes: Characterization of ectonucleotidase activity. Cell Biochemistry and Function, 2021, 39, 511-520.	2.9	3
94	Berberine modulates crucial erectogenic biomolecules and alters histological architecture in penile tissues of diabetic rats. Andrologia, 2021, 53, e14074.	2.1	3
95	Effects of processing on starch composition, glycemic indices, phenolic profile, and possible antidiabetic properties of cassava (Manihot esculenta) flours. Journal of Food Processing and Preservation, 2021, 45, e15586.	2.0	3
96	Sphenocentrum jollyanum root and leaf extracts enhanced wound closure by improving the glycemic state of diabetic rats induced by high-fat diet/streptozotocin. Comparative Clinical Pathology, 2021, 30, 881-889.	0.7	3
97	Safety evaluation of supratherapeutic dose of Maytenus ilicifolia Mart. ex Reissek e xtracts on fertility and neurobehavioral status of male and pregnant rats. Regulatory Toxicology and Pharmacology, 2017, 90, 160-169.	2.7	2
98	Modulatory effect of pigeon peaâ€wheat biscuits on lipid profile, lipid peroxidation level, Î±â€glucosidase, and butyrylcholinesterase activities in typeâ€2 diabetic patients. Journal of Food Biochemistry, 2021, 45, e13658.	2.9	2
99	Hesperidin mitigates inflammation and modulates ectoenzymes activity and some cellular processes in complete Freundâ€™s adjuvant-induced arthritic rats. Journal of Pharmacy and Pharmacology, 2021, 73, 1547-1561.	2.4	2
100	Comparison of the Phenolic Profile, Inhibition of Enzymes Associated with Type-2 Diabetes and Hypertension, and Fe2+-Induced Lipid Peroxidation in Ratâ€™ Pancreas by Plum and Hogweed Leaves Extracts. Vegetos, 2017, 30, 93.	1.5	1
101	Inhibitory Activities of Brimstone (Morinda lucida) Roots Extract on Î±-Amylase and Î±-Glucosidase-In vitro. Vegetos, 2017, 30, 105.	1.5	1
102	White Butterfly (Clerodendrum volubile) leaves and antioxidant potential in toxicity. , 2021, , 337-346.		0